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GOA STATE POLLUTION CONTROL BOARD

ANNUAL REPORT 2024-2025

Calvim, Goa , Photo by Vaibhav D. Bhagat

GOA STATE POLLUTION CONTROL BOARD
गोंयराज्यप्रदूषणनियंत्रणमंडळ
(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

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CHAIRMAN'S MESSAGE

I am happy to share the Board's Annual Report 2024 – 2025 which is scheduled to be released during World Environment Day (WED-2025) function on 5th June to be held at Darbar Hall, Raj Bhavan, Dona Paula. The Board has received NABL accreditation to its Laboratory and plans to further strengths its Laboratory with latest state-of-arts technology.

I also take opportunity to extend my sincere appreciation to the Board staff and the people of Goa for sharing in our endeavor of maintaining the clean and fresh air of Goa to be enjoyed by future younger generations. The Board will continuously seek and strive to improve and maintain the quality of the environment and society at large.

I also thank State Government, Central Government as well as Central Pollution Control Board (CPCB) for financial and technical support and encouragement.

On behalf of the Goa State Pollution Control Board, it is my pleasure in sharing the performance of the Board through this GSPCB Annual Report for the year 2024-2025.

Shri. Arun Kumar Mishra *IAS,*
Chairman, GSPCB

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao-Bardez Goa-403511

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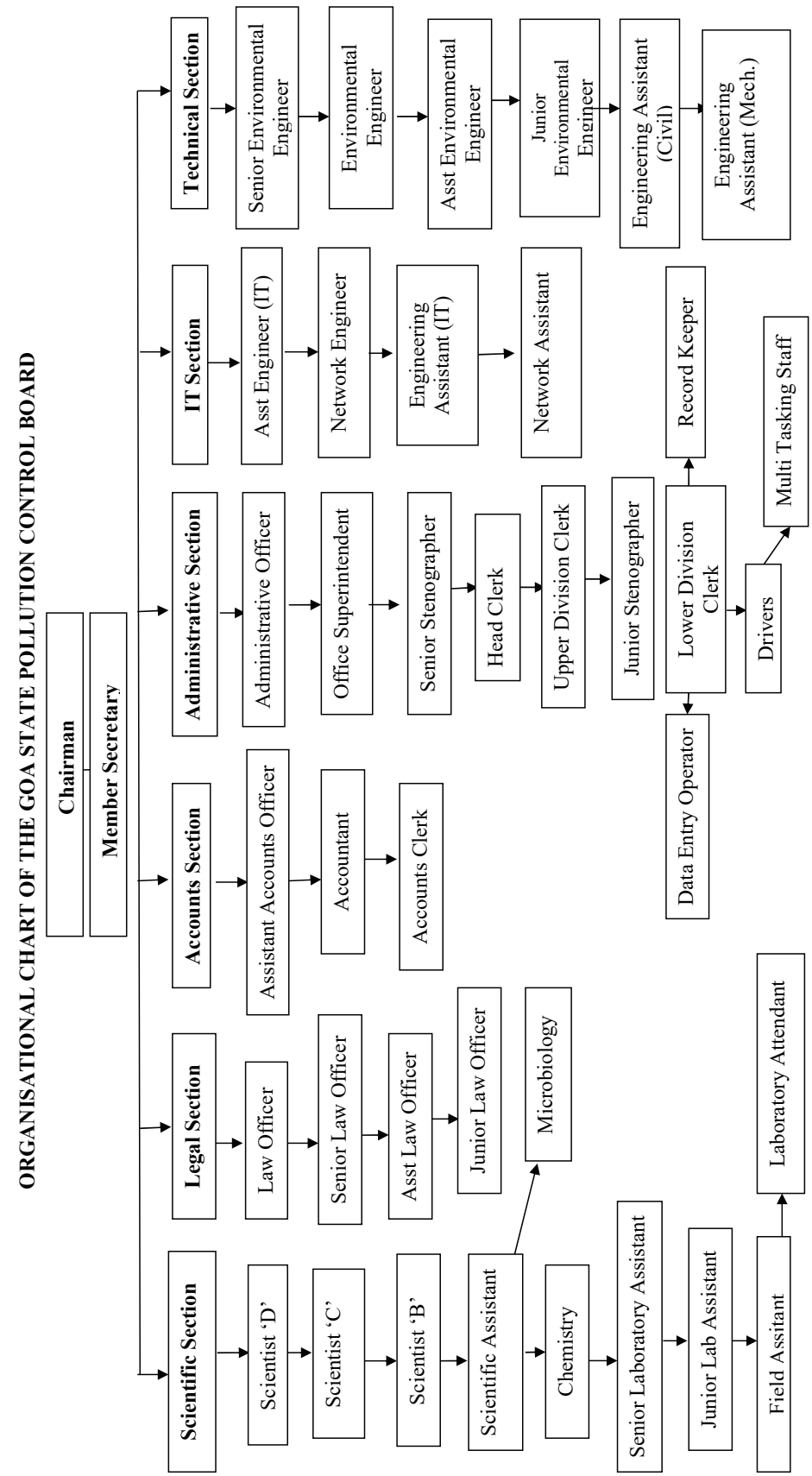
ORGANISATIONAL CHART OF THE GOA STATE POLLUTION CONTROL BOARD



CHAPTER 1

INTRODUCTION

1.1 GENERAL INTRODUCTION

The Goa State Pollution Control Board (GSPCB) is an autonomous statutory organization constituted on 1st July, 1988 under the Water (*Prevention & Control of Pollution*) Act, 1974. Prior to that, when Goa formed part of the erstwhile Union Territory of Goa, Daman and Diu, the Central Board for the Prevention and Control of Water Pollution was performing the functions of the State Board in Goa. The Central Pollution Control Board (CPCB) at Ponda-Goa had established a Section Office for the purpose. The same arrangement continued till the constitution of the State Board. In the meanwhile, the Section Office was re-constituted as West Zonal Office and shifted to Baroda on 4th April, 1988. All the relevant records pertaining to Goa were transferred to the Goa State Pollution Control Board on 12th September, 1988.

The GSPCB, after its constitution, established its office in the Goa Medical College (GMC) Complex at Bambolim. In June 1991, the Government of Goa allotted independent premises for the Board at Patto- Panaji, where the Board shifted it's office at House no. 243, Patto, Panaji in September 1991.

On 15th August, 2002 the Board acquired a new premises on the 1st floor in Dempo Tower at Patto Plaza, Panaji and shifted its full set-up to this new premise. The office as well as the laboratory was operating from here. Subsequently, on 15th August, 2005, additional premises measuring 311.86 Sq. mt. was acquired on the 4th floor of the same building which was dedicated to the Board Laboratory.

The Board has shifted its Administrative, Accounts, Legal, Information and Technology, Scientific and Technical section to the new Board premises located at Saligao, Bardez – Goa on 8th August, 2018, the laboratory along with analysts was shifted at the new premises in July 2019. The Board now continues to function at its premises at Saligao.

1.2 THE BOARD OFFICE

The GSPCB is presently operating from its own independent building located at Saligao. The Offices of the Chairman, Member Secretary, Technical section, Legal section, Accounts section, Scientific section, Information Technology section , Monitoring and compliance section & Administrative Section are currently operating from this premises at Saligao, Bardez - Goa. The Board laboratory and entire Board office is certified under ISO:9001:2015, ISO:14001:2015 and OSHAS : 18001:20018. Additionally, the Board laboratory is accredited under the National Accreditation Board for Testing & Calibration Laboratories (*NABL) i*.e. : ISO 17025:2017.

Presently, there are One hundred twenty seven staff employed in the Board under the various sections.

1.3 FUNCTIONS OF THE VARIOUS SECTIONS

1.3.1 SCIENTIFIC SECTION

The Board has a full fledged laboratory, operating on the 1st and 2nd floors of the Office Building at Saligao.The laboratory is well equipped with instruments and equipments needed for carrying out analysis of water, air and soil, waste water, rivers, wells, etc., for chemical, physical and bacteriological parameters including trace and toxic metals, pesticides and organic components. The Board laboratory follows the procedures / stipulated, protocol and guidelines in accordance with the MoEF and NABL accreditations. The laboratory has conducted periodical Internal Audits and External Audits of the Board Laboratory processes through NABL approved Auditors. Assessment of the Board laboratory is also conducted by external NABL assessment under ISO:17025:2017

The Board has set up 18 Ambient Air Quality (AAQ) and 115 water quality monitoring stations under the Central Pollution Control Board sponsored projects National Air Monitoring Programme (NAMP) and National Water Monitoring Programme (NWMP). Board also monitors once source station at MPT of the 18 AAQ stations, operation of 14 locations are outsourced to MoEF&CC approved laboratories and 3 locations are operated by the GSPCB. The Ambient Air Quality is measured in terms of parameters such as PM_{10}, $PM_{2.5}$, SO_2, NO_X, C_O, O_3 and Pb along with meteorological parameters. The Board has two mobile CAAQMS, which are being used for Continuous Ambient Air Quality Monitoring. Also in addition to NAMP conducted at 19 locations, AAQM has been conducted along transportation routes of e-auctioned ores to address complaints regarding dust pollution. Number of stack emission monitoring have also been conducted during the year.

The 115 NWMP stations are all monitored by GSPCB staff. These stations are monitored at defined intervals and the samples collected are analyzed at the Board laboratory for physical, chemical, metals, pesticides and microbiological parameters. During the year under report the Board laboratory collected **1263** water samples from various sources such as ETP, STP, mine discharge (settling pond, mining pit, etc.), river water, well water, canal water, etc. and analyzed the same for various parameters i.e pH, Turbidity, Dissolved Solids, Conductivity, Dissolved Oxygen, Nitrate Nitrogen as NO_3-N, Nitrite Nitrogen as NO_2-N, Nitrate as NO_3, Nitrite as NO_2, Chloride as Cl, Sulphate as SO_4^{2-}, Hardness as CaCO3, Calcium as Ca, Magnesium as Mg, Suspended Solids, Oil & Grease, Chemical Oxygen Demand, Biochemical Oxygen Demand, Phosphate, Ammonical nitrogen, Acidity, Alkalinity, Fluoride, Boron (B), Chromium (Cr) Hexavalent, Potassium (K), Sodium (Na), Total Organic Carbon (TOC), Phenolphthalein Alkalinity, Total Fixed Solids, **Cadmium as Cd, Copper as Cu, Nickel as Ni, Chromium as Cr, Zinc as Zn, Cobalt as Co, Lead as Pb, Iron as Fe, Manganese as Mn, Arsenic as As,** Total Coliform, Fecal Coliform, E. Coli, Total plate count, **Organo Chlorine Pesticides (OCPS) (**Aldrin, Dieldrin, Heptachlor, Hexachlorobenzene, Methoxychlor, o,p' DDT, p,p' DDT, p,p'-DDE, α-BHC, β-BHC, γ-BHC)**, Organo Phosphorous Pesticides (OPPs)** (Chlorpyriphos, Profenophos, Malathion, Parathion-methyl).

The GSPCB Microbiology laboratory has been set up as per NABL guidelines and follows the Quality, Environmental, Occupational Health & Safety Management System (QMS, EMS, & OHSMS) to ensure precision and reliability in water analysis. The GSPCB Microbiology laboratory conducts testing of Drinking Water, Ground Water, Surface Water and Wastewater, focusing on the following parameters

- Total Coliform
- Faecal Coliform
- Faecal Streptococci
- Escherichia coli
- Heterotrophic Plate Count

The GSPCB Microbiology laboratory analysed a total of 2214 of samples for the year 2024-25 comprising of NWMP, Industrial, complaints etc. Also, the Microbiology laboratory participated in proficiency testing (Quantitative) for Total Coliform, Escherichia coli,Faecal Coliform,Faecal Streptococci,Heterotrophic Plate Count and has been successfully cleared..

In addition to the Microbiology Laboratory, GSPCB-Bioscience division is tasked with conducting Biomonitoring of Benthic Macroinvertebrates to comply with the Hon'ble NGT order dated 08.04.2019, which mandates Biodiversity monitoring and indexing of rivers directing the State Pollution Control Boards and Committees to carry out regular Biodiversity monitoring, with the Central Pollution Control Board (CPCB) serving as the Nodal Agency.

1.3.2 TECHNICAL SECTION

The Technical Section handles the Consent management. The industries, hazardous waste handling facilities, health care facilities, municipal solid waste facilities, etc. are inspected and monitored on regular basis. The inspection reports and analysis reports are put up online through Online Consent Management and Monitoring System (OCMMS) software which are scrutinized by the Technical Advisory Committee (TAC) for Red and Orange category of industries and subsequently approved by the Chairman (*in case of Red-category of industries*) upon which consents under the relevant acts and authorization under relevant rules are issued. During the year under report, **1,564** consents have been granted for operation and establishment of the above facilities under the Water and Air Acts, Hazardous Waste Rules, **370** Authorizations/Registrations are granted under Bio-Medical Rules, Solid Waste Rules, E-waste Management Rules, Plastic Waste management Rules and Battery Rules as applicable. Further, the Board has also carried out a total of 194 Environmental Assessment/ Compliances monitoring

Besides, periodic inspections to monitor red category industries are also conducted to check the consent compliance by the units. Samples of waste water, ambient air and stack emissions are monitored and analyzed in the Board laboratory.

Additionally, inspections in response to public complaints are also conducted as and when required after initially scrutinizing the complaints through the 'Complaint Committee'. The complaints are monitored by inspection, samples are collected and analysed where required and action deemed fit is initiated if required.

1.3.3 LEGAL SECTION

The Legal section handles all the Legal / Court matters related to the functions of the Board. The matters are filed before the Hon'ble Supreme Court, the Hon'ble High Court, the National Green Tribunal (NGT), the Administrative Tribunal the Appellate Authority under the Air Act and the Water Act and other Lower Courts.

The Personal hearings for Industries, Public Hearing (*in case of industrial sectors mandating Environmental Clearance – EC*) and matters related to Right To Information (RTI) Act are also looked after by this Section.

Complaints are scrutinized and examined by the Legal section before initiating action in the matter. Notices/directions/clarifications are issued to the defaulting units under the Environment (Protection) Act, 1986 i.e. Municipal Solid Waste Rules, Hazardous Wastes Rules, Bio-Medical Rules, E-Waste management Rules, Noise Pollution Rules etc. whenever required to seek compliance for the defaultings.

1.3.4 ADMINISTRATIVE SECTION

The Administrative Section deals with all the Administrative matters of the Board, service matters of the staff, trainings, building maintenance. Preparation of Agenda and minutes for the Board meetings and subsequent follow up for the implementation of the decisions taken herein for smooth functioning of the Board.

1.3.5 ACCOUNTS SECTION

The Accounts section of the Board deals with all the Accounting and Financial matters of the Board such as monitoring of Revenue and Expenditures, preparation of Annual Budget and to advise the Board on financial matters in accordance with the Government Rules and Procedures for smooth functioning.

1.3.6. INFORMATION AND TECHNOLOGY

The Information and Technology section provides service to Industry in Online Registration for obtaining various Consents and Authorizations though Online Portal. The entire Board e-governance activities, support for Hardware and Software Infrastructure and troubleshooting are managed and executed successfully by IT Department. The implementation of Office Automation System by SAP Enterprise Resource Planning for the paperless office is achieved by the Board.

1.3.7 OTHER FACILITIES

1.3.7.1 LIBRARY FACILITIES

The Board has a spacious library of its own on the Ground Floor. It has varied publications from different departments/institutions, such as MOEF, CPCB, other State Boards' Annual Reports, etc. Scientific, Legal, Accounts and Technical books, ISI Specifications, etc. are also available in the Board library.

1.3.7.2 CONFERENCE ROOM

The Board has a spacious Conference Room with a seating capacity for **40** people. It is fully air conditioned and has facilities like whiteboard, over head projector, video conferencing. All Board Meetings and other important meetings are held in the Conference Room.

1.3.7.3 AUDITORIUM

The Board has an Auditorium with a seating capacity of **188** pax. It has the facilities for conducting functions, seminars, workshops etc. the Board rents outs its Auditorium for Govt. departments, organizations for conducting seminars workshops etc.

The Board accorded a warm send off to its staff, Mr. Ganpat Naik who superannuated on 30th June, 2024, after rendering 35 years of service to the Board. He was felicitated at the hands of Chairman and Member Secretary on this occasion.

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CHAPTER 2

CONSTITUTION OF THE BOARD

2.1 CONSTITUTION OF THE BOARD INCLUDING CHANGES THEREIN

The present Board was constituted under the chairmanship of Shri. Mahesh K. Patil. This Board was constituted vide Order No. 31-9-2017/STE-DIR/Part/-I/1060 dated 05/01/2022 and the composition is as given below:-

Chairman

1. Shri. Mahesh K. Patil,..... (w.e.f. 6/01/2022 (AN))

Members

1.	Director, Dte. of Industries, Trade & Commerce.
2.	Chief Engineer, Water Resource Dept.,
3.	Director, Director, Foods and Drugs Administration
4.	Director, Chief Inspector of Factories and Boilers
5.	Director, Directorate of Health Services.
6	Mr. Shubham Chodankar, Corporator, Corporation of City of Panaji
7	Shri. Ahirwad T. Khorjuvekar, Councilor, Mapusa Municipal Council
8.	Shri. Pradip K. Naik, Councilor, Curchorem Cacora Municipal Council
9	Chairman, Confederation of Indian Industries (Goa Chapter), Goa State Office (Western Region
10	President, Goa Chamber of Commerce and Industries
11.	President, Travel and Tourism Association of Goa,
12	Managing Director, Goa State Infrastructure Development Corporation
13	Managing Director, Goa Waste Management Corporation

Vide Notification no.5/20/87/STEP-IV/1741 dated 27/02/2024 the following embers are included.

14. Dr. Nutan Bicholkar, Councilor Mapusa Municipal council
15. Mr. Ameya D. Naik, Ex-Panch of Sanvordem Village Panchayat

Member Secretary

16. Dr. Shamila Monteiro**,** (w.e.f. 18/07/2018)

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CHAPTER 3

MEETINGS OF THE BOARD

3.1 During the year under report, the Goa State Pollution Control Board held four Board Meetings under the reconstituted Board. The details of the meetings held during the year are presented in the Table below:-

Sr. No.	Sr. No. of Meeting	Date of meeting	Venue	No. of members who attended the meeting
1.	158th	16/04/2024	Conference Hall of the Board	12
2.	159th	21/08/2024	Conference Hall of the Board	14
3.	160th	10/12/2024	Conference Hall of the Board	12

3.2 MINUTES OF BOARD MEETINGS HELD DURING THE YEAR UNDER REPORT.

MINUTES OF THE 158th MEETING OF THE GOA STATE POLLUTION CONTROL BOARD HELD ON 16th APRIL, 2024 AT 3.00 PM, IN THE CONFERENCE HALL OF THE BOARD

The 158th meeting of the Goa State Pollution Control Board was held on 16th April, 2024 at 3.00 pm in the Conference hall of the Board.

The following members attended the meeting:

1.	Mr. Mahesh K. Patil, Chairman
2.	Director, Industries Trade and Commerce was represented by Mr. Pratik Porob, Deputy Director (Admn.)
3.	Shri Anant Pangam, Chief Inspector of Factories and Boilers
4.	Mrs. Jyoti Sardessai, Dte. of Food and Drugs Administration
5.	Director, Dte. of Health Services was represented by Officer from the Dept.
6.	Shri Shubham Chodankar, Councillor, Corporation of the City of Panaji
7.	Shri Ashirwad T. Khorjuvenkar, Councillor, Mapusa Municipal Council,
8.	Dr. Nutan D. Bicholkar, Councillor, Mapusa Municipal Council
9.	Shri Pradip K. Naik, Councillor, Curchorem – Cacora Municipal Council,.
10.	Shri Amey D. Naik, Ex Panch, Village Panchayat Sanvordem
11.	President, Goa Chamber of Commerce & Industries was represented by Shri Sanjay Amonkar, Director General
12.	Shri Nilesh Shah, President, Travel and Tourism Association of Goa
13.	Shri Ankit Yadav, IAS, Managing Director, Goa Waste Management Corporation.
14.	Dr. Shamila Monteiro, Member Secretary

Chairman, Confederation of Indian Industries and Managing Director, Goa State Infrastructure Development Corporation expressed their inability to attend the meeting. Leave of absence was granted.

II. At the outset the Member Secretary welcomed the Chairman and Members for the 158th meeting of the Board. With the permission of the Chair, she instructed Dr. Mohan Girap, Scientist 'C' to make a presentation on the activities carried out by the Board during the last three months:-

1.	The Board staff participated in the 4th Kala Srujanotsav organised by Sarkari Karmachari Saunskrutik Manch held in January 2024 and emerged Winners in certain category of events	
2	The Board organized the 2nd International Environment and Sustainability Summit Goa (IESSG) – 2024 – 8th to 10th February, 2024. During the Summit, the following was executed:	
	a.	MoU was executed among M/s Mondelez India Foods Pvt. Ltd., GSPCB and Mapusa Municipal Council (MMC) was executed / exchanged during the Inaugural session of the IESSG-2024 Summit on 8th February 2024 in the presence of Mr. Aleixo Sequeira, Hon'ble Minister for Environment & Climate Change, Goa with objective of piloting circularity of plastic waste. Even a baseline study regarding disposal of discarded fish net has been conducted. A short video was also screened
	b.	The GSPCB, through EU-REI, has conducted a baseline study - towards effective implementation of Deposit Refund System in two areas : capital city – Panaji (*covering coastal areas / riverine ecosystem / institutions / commercial hub*) and Bardez taluka (*residential complex / tourist population*) in North Goa district of Goa which was released during Valedictory session of the 2nd International Environment & Sustainability Summit (IESSG) 2024 in the presence of Chairman, Gujarat PCB – Shri R. B. Barad, IAS on 10th February 2024. A short video was also screened.
	c.	Deccan Fine Chemicals (India) Pvt. Ltd., Godrej Locks, Hindustan Coca-Cola Ltd., and Britacel Silicones Ltd., were felicitated for obtaining GreenCo rating during 2nd IESSG-2024 Summit on 10th February 2024. Members complimented the Board and staff for the excellent organisation of the event.
3.	The Department of Environment and Climate Change (DoE & CC) has notified the Noise Action Plan in the Official Gazette dated 14th March 2024.	
4.	Presentation on the proposed Deposit Recovery System was made for information of the Board members. The Board initiated this concept for implementation of Circular economy and waste management. Board members appreciated the concept.	
5.	The Department of Urban Development has notified the Solid Waste Management Policy of the State of Goa	
6.	Knowledge Sharing session was held on 27th February 2024 - platform for understanding latest technological interventions towards pollution control measures.	
	a.	M/s Organic Recycling Systems., – Sanjeevak Carbonisation Systems – that efficiently turns biomass (*i.e. hard coconut – walnut – groundnut – almond – coffee-bean shells*) into charcoal by employing strict electric process control and then manufacture charcoal products such as briquettes - on 27th February, 2024
	b.	M/s Tellus Habitat – Smart Solutions for Global Water solutions - R3H2O with technology equipped with Advanced Dual Growth Medial Technology (biological) with Pulse Mode operation, on 27th February 2024.
	c.	M/s Energy Desk Pvt. Ltd., Pune., – Mr. Mandar Velde, CEO made a detailed presentation on "Innovative and Energy efficient Solutions". He also demonstrated these gadgets towards effective utilisation of water / energy / fuel-efficiency on 12th April, 2024.
	d.	M/s Arvis Environment Technologies LLP – Mr. Bharath Vetriivel, CoFounder & CEO made a presentation on "Design, Development, Manufacturing & Supply of Food-waste treatment System (CHUGG)". The firm is incubated with FiiRE, Goa and has patented the system, on 12th April, 2024

	e.	M/s SAAF Water – Mr. Harishchandra Bhandari, made a presentation on "Water-quality, quantity and flow based applications using AI-IoT based water intelligence platform". The firm is a Start-up initiatives from Goa and is further undertaking research-based activities to address parameter-specific solutions, on 12th April, 2024
7.	A free Breast Screening Camp was organised by Primary Health Centre (PHC) – Dr. (Mrs.) Prajakta Lotlikar, Medical Officer in association with the Swasth Mahila Swasth Goa project and Yuvraj Singh Foundation on 20th February 2024.	
8.	The GSPCB, as a part of MoU with the Dgyana Prasarak's Research College, Assagao along with Goa State Biodiversity Board (GSBB) has developed Natural, organic Holi-colours.	
9.	Chairman, GSPCB attended and delivered keynote address on the Board's Initiatives during CII's Annual meet held on 13th March 2024 at Vivanta Hotel, Panaji	
10.	Chairman attended a National Conference on 'Role of EPR in Circular Economy (CE) and Post-recycled Markets held in New Delhi on 21st March, 2024	
11.	The GSPCB recently held a meeting with executive council officials of the Verna Industrial Association towards ensuring effective compliance to provisions of the Hazardous Waste and Bio Medical waste Rules	

III. Thereafter, the following Agenda items were taken up for discussion and deliberation.

Agenda item no. 1

Confirmation of the minutes of the 157th meeting of the Goa State Pollution Control Board held on 12/09/2023.

The Member Secretary informed the members that the minutes of the 157th meeting of the Board held on 09/01/2024 were forwarded to all the members vide this office letter no. 4/157/23-PCB/ Admn./24318 dated 02/02/2024. As no comments were received from any members, the minutes of the meeting were confirmed, so as to enter the same in the Minutes Book.

Agenda item no. 02

Follow up action on the decision taken at the 157th meeting of the Board held on 09/01/2024

Agenda item no. 03 - Members noted that M/s Bramha Corp Theme Park LLP has been informed of the decision of the Board with respect to restriction of the buffer zone to 200 meters radius from the existing garbage treatment plant in survey no. 310/1-A

Agenda item no. 04 – The members noted that the Board has implemented the revised fees for grant of Authorizations.

Agenda item no. 05 – The members were informed that the proposal for conducting aerial survey of North Coastal belt had come up for discussion during the last Legislative Assembly and the Hon. Minister for Environment had given an Assurance that the same will not be implemented..

Agenda item no. 06 – Members noted that the Installation of Continuous Online Ambient Air Quality Monitoring systems as 23 locations as identified by the Board is under process..

Agenda item no. 07 - Members noted that the work of replacing two present stations with Online Continuous Ambient Air quality monitoring (CAAQMS) is under process.

Agenda item no. 09 – The members noted that the Board has implemented levying of fees for issue of compliance certificates.

Table item no. 02 – Member Secretary informed the Members that Mr. Gerard D'Cunha has been asked to submit an Invoice for making payments of the Final Award in the Arbitral matter.

Agenda item no. 03

Revised Budget Estimate for the year 2023-2024 and Budget Estimate for the year 2024-2025

Member Secretary informed the Members that as per section 38 of the Water (Prevention and Control of Pollution) Act, 19074, Revised Budget Estimate for the year 2023-2024 and Budget Estimate for the year 2024-2025 prepared in Form VI and VII, prescribed in Rule 31 is placed before the members.

Further, Member Secretary instructed the Accountant of the Board to brief the members on Budget as prepared. It was explained to the members that the Budget for the year 2023-2024 was Rs. 2301.61 (lakhs) and Revised Estimate was Rs. 2708.47 (lakhs). The detail heads of allocation of the Budget was also explained. The members appreciated the revenue generated during the year (around Rs. 10 Crores) and suggested to further improve the monitoring mechanism.

The Budget Estimate for the year 2024-2025 is proposed as Rs. 3732.58 (lakhs). The major expenses being Salaries, Office expenses, laboratory expenses, building maintenance and Events.

It was further informed that the Receipt Budget for the financial year 2023-2024 was Rs. 2503.18 lakhs, however the Revised Estimate was Rs. 3785.33 lakhs and the proposed Receipts for the year 2024-2025 was Rs. 3961.68 lakhs.

Members deliberated and approved the Revised Budget Estimate for the year 2023-2024 and Budget Estimate for the year 2024-2025, so as to forward to the State Government..

IV. With the permission of the Chair, the following items were taken up for discussion.

Table item no. 01.

Application for Consent to Establish of Bicholim Mineral Block- Block 1 (Auction Block), of M/s Vedanta Limited located at Bicholim, Bordem, Lamgao, Mulgao, Mayem & Sirigao Villages of Bicholim-Goa for according ex- post facto approval.

Member Secretary informed the members that the Board was in receipt of application from M/s Vedanta Limited for Consent to Establish. The members perused the details of the unit as given in the Agenda Notes. Member Secretary further informed the members that the Board granted Consent to Establish for Bicholim Mineral Block- Block 1 (Auction Block), of M/s Vedanta Limited located at Bicholim, Bordem, Lamgao, Mulgao, Mayem & Sirigao Villages of Bicholim- Goa and the unit has obtained Environmental Clearance. She further informed the members that the application was placed before the TAC on 15/02/2024 and TAC has recommended proposal for conditional Consent to Establish.

Members deliberated and accorded ex post facto approval

Table item no. 02

Application for Consent to Operate Bicholim Mineral Block- Block 1 (Auction Block), of M/s Vedanta Limited located at Bicholim, Bordem, Lamgao, Mulgao, Mayem & Sirigao Villages of Bicholim-Goa. for ex- post facto approval .

Member Secretary informed the members that the Board was in receipt of application from

M/s Vedanta Limited for Consent to Operate. The members perused the details of the unit as given in the Agenda Notes.

Member Secretary further informed the members that TAC has recommended proposal of conditional Consent to Operate, initially for a period of six months during which time, the mining unit needs to comply with the pre-requisites prior to start actual mining operations such as execution of mine lease, installation of air quality and water quality monitoring facility in core zones /buffer zones transportation route as applicable. She further informed that TAC has also recommended that after six months the site to be inspected for ensuring on site status by the Board (along with TAC members) prior to further considerations with reference to extension in the Consent to Operate and in addition the mining unit has to comply with all the Environmental Clearance conditions and submit half year compliance report thereafter to the Board.

Members deliberated and accorded ex post facto approval

Table item no. 03
Delegation of powers by the Board

Member Secretary informed the members that the Board had issued directions under Section 33(A) of the Water Act and under Section 31(A) of the Air Act for operating Villas / Guest houses in Anjuna, without the valid Consent to Operate of the Board as mandated under the Water Act and the Air Act. These directions were challenged before the Hon Single Judge of the High Court of Bombay at Goa by way of individual Writ Petitions.

Member Secretary further informed that the Hon. Court passed order stating that since the Directions were not issued by the Board but by the Member Secretary, the Board will afford an opportunity to the Petitioners and after hearing them, take a decision as is the requirement of section 33 A of the Water Act and Section 31 A of the Air Act.

Member Secretary also informed the Members that the impugned directions issued under Section 33(A) of the Water Act and under Section 31(A) of the Air Act would normally require to be challenged before the National Green Tribunal and the Administrative Tribunal respectively**.** Since the Board has issued these Directions in a composite manner the Petitioners contend that the Hon High Court would have the jurisdiction to hear the challenges in Writ jurisdiction.

Member Secretary further informed that the 158th Board meeting was earlier scheduled to be held on 27/03/2024 at 3.00 pm, but was postponed as such the parties in question could not be heard before the Board as directed by the Hon High Court.

She further brought to the notice of the Members that in terms of the provisions of the Goa Water Rules and the Goa Air Rules read with the provisions of the Water Act and the Air Act; the Member Secretary of the GSPCB has been issuing directions under Section 33(A) and 31(A) of the Water Act and Air Act respectively with the approval of the Chairman of the Board till date, however the Board at its 151st meeting held on 25/02/2022 has also accorded ex post facto approval for the issue of all correspondence of the Board including Consent orders, directions, notices etc. only by the Member Secretary of the Board and in absence by the concerned, authorized Link Officer.

Members deliberated at length and passed the following Resolution:

“In order to ensure continuous smooth functioning of the Board, the Board reiterates and specifically delegates, (in exercise of its powers under Section 12 and Section 15 of the Water

(Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 respectively), all the powers vested in it under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 to the Member Secretary of the Board, which would include all issue of Consents, Authorizations, Amendments, Show Cause Notices, Personal hearing proceedings, Directions etc", as follows:

1.	Power to obtain information under Section 20 of the Water Act and section 25 of Air Act and under the Hazardous Waste Rules.	Member Secretary
2.	Power of entry and inspection under section 23 of Water Act and section 24 of Air Act and/or to depute Board Officials for the same and under the Hazardous Waste Rules.	
3.	Power to take samples of effluents and emissions under section 21 of Water Act and section 26 (1) of Air Act and/or to depute Board Officials for the same.	
4.	Power to conduct inquiry under section 25(3) of Water Act and section 21 of Air Act, to schedule inspections, raise queries in respect of applications for consent under the Water Act and the Air Act and under the Hazardous Waste Rules.	
5.	Power to issue, refuse, withdraw, revoke, vary Consent under Section 25, 26 and 27 of Water Act and section 21 of Air Act and to issue Show cause notices and directions in this regard under section 33A of the Water Act and under section 31A of the Air Act. and under the Hazardous Waste Rules.	
6.	Power to conduct personal hearings of parties / members of the public / representatives of units / complainants etc. in terms of the principles of Natural Justice, to effectively decide various issues pending for decision with the Board including decisions on public complaints and Consent applications.	
7.	In case of directives of the Courts/ Judicial Forums, the Member Secretary will hear the parties on behalf of the Board.	
8.	Power to file criminal complaints before the Competent Courts of Law in respect of violations of the provisions of the Water Act and the Air Act by units	
9.	Power to carry out certain works section 30 of the Water Act	
10.	Power to take emergency measures section 32 of the Water Act and Section 23 of the Air Act	
11.	Power to give sanction to make application to the Court for restraining the Board under section 33 of the Water Act & section 22 of the Air Act	
12.	Power to give direction section 33 (A)-of the Water Act & Section 31 (A) of the Air Act, with regard to subjects other than those related to Consent to Operate	
13.	Sanction for making complaint to the Court Under Section 49 of the Water Act & Section 43 of the Air Act.	
14.	Officer authorized to file complaint before appropriate Court of Law under provisions of the Water Act and the Air Act including under section 49 of the water Act and Section 43 of the Air Act in respect of matters other than those that relate to Red, Orange or Green category of industrial units	

It was also approved by the Members that the Board should issue separate statutory directions under the Water Act and Air Act and not in a composite manner.

The Board also resolved to forward the same to the State Government for Notification.

Table item no. 04

Writ Petition no. 502/2024 (F) and connected matter regarding compliance to directions of the Hon. High Court dated 21/03/2024

Member Secretary informed the members that as per the directions of the Hon. High Court, dated 21/03/2024 passed in WP/502/2024(F); the Board has to hear the parties i.e Villa Owners. who were directed to remain present for the Board meeting.

Since the parties remained present before the Board, the members informed that a fresh date will be intimated for the hearing as per the decision of the Board.

The meeting ended with thanks to the Chair.

MINUTES OF THE 159TH MEETING OF THE GOA STATE POLLUTION CONTROL BOARD HELD ON 21ST AUGUST, 2024 AT 3.00 PM, IN THE CONFERENCE HALL OF THE BOARD

I. The 159th meeting of the Goa State Pollution Control Board was held on 21st August, 2024 at 3.00 pm in the Conference hall of the Board.

The following members attended the meeting:

1.	Mr. Mahesh K. Patil, Chairman
2.	Director, Industries Trade and Commerce was represented by Mrs. Sarita Kudalkar, O.S
3.	Chief Inspector of Factories and Boilers was represented by Mr. Premanand Gaude, Inspector of Factories
4.	Mrs. Shweta S. Dessai, Dte. of Food and Drugs Administration
5.	Director, Dte. of Health Services was represented by Dr. Cheryl de Sousa, CMO
6.	Shri Shubham Chodankar, Councillor, Corporation of the City of Panaji
7.	Shri Ashirwad T. Khorjuvenkar, Councillor, Mapusa Municipal Council,
8.	Dr. Nutan D. Bicholkar, Councillor, Mapusa Municipal Council
9.	Shri Pradip K. Naik, Councillor, Curchorem – Cacora Municipal Council,.
10.	Shri Amey D. Naik, Ex Panch, Village Panchayat Sanvordem
11.	President, Goa Chamber of Commerce & Industries was represented by Shri Sanjay Amonkar, Director General
12.	Shri Brijesh Upadhyay, Chairperson, Confederation of Indian Industries
13.	Shri Jack Sukhijia, President, Travel and Tourism Association of Goa
14.	Managing Director, Goa State Infrastructure Dev. Corporation was represented by Mr. Sudesh Sangodkar, Manager (Civil)
15.	Shri Ankit Yadav, IAS, Managing Director, Goa Waste Management Corporation.
16.	Dr. Shamila Monteiro, Member Secretary

II. Chief Engineer, Water Resource Dept. did not attend the meeting.

III. At the outset the Member Secretary welcomed the Chairman and Members for the 159th meeting of the Board. She also welcomed the new members i.e Shri Brijesh Upadhyay, Chairperson, Confederation of Indian Industries, Mrs. Shweta S. Dessai, Dte. of Food and Drugs Administration and Shri Jack Sukhijia, President, Travel and Tourism Association of Goa

IV. With the permission of the Chair, she instructed Mr. Pravin Faldessai, Asstt. Env. Engg. to make a presentation on the activities carried out by the Board during the last three months:-

1.	Member Secretary, GSPCB attended in a panel discussion organized by Consulate General of Finland at Mumbai on a topic Sustainable Solutions to Water Management and appraised initiatives of the State of Goa
2.	Mr. Lz Varte official of Mizoram - PCB on a Cycle tour of India as a part of Mission LiFE initiatives - May 2024, visited GSPCB
3.	Public Hearing being held in Bicholim for mining as a part of mandate under the EIA Notification, 2006 (as amended)
4.	IDC-Connect reg. consent mechanism through OCMMS at Tuem Ind. Estate
5.	The Department of Environment & Climate Change, Goa has notified Revised Noise Action Plan Noise Action Plan - revised on 2nd May 2024.
6.	Celebration of World Environment Day (WED) 202, Jointly with the Department of Environment, Forests & Climate Change (DoE&CC) / Goa State Biodiversity Board (GSBB).
7.	Clean and Green Initiatives through Industries Associations in Verna and Cuncolim Industrial Estates
8.	Miramar beach clean-up programme – 8th June 2024
9.	IDC-Connect programme : Consent mechanism through OCMMS awareness – 10th June 2024
10.	Celebration of World Ocean Day – 8th June 2024
11.	Visit of Technical Advisory Committee (TAC) members to PIP, Amona unit – 11th June 2024
12.	Attended Conference on Natural Climate Solutions organized by the Forest Dept & TERI school of Advanced Studies- 19th June 2024
13.	Hexagon India technical summit held in association with GSRSC at Taj Vivanta on - 20th June 2024
14.	Installation of DEMO sewage treatment plant by M/s Tellus Habitat, Bengaluru, in the GSPCB campus – 25th June 2024
15.	QEHS Surveillance Audit by TUV-SUD - 28th June 2024
16.	Superannuation of Mr. Ganpat Naik – Sci. B – 30th June 2024
17.	TERI Golden Jubilee celebrations - 2nd July 2024 - Dr. Shamila Monteiro, Member Secretary, GSPCB as one of the panel members, Mr. Mahesh Patil, Chairman, GSPCB as one of the panel members
18.	Knowledge sharing programmes were held on – a. **30th April 2024** – (a) M/s Replete Business Solutions Pvt. Ltd., presented on Environmental Conservation Information System (ECIS) through GIS. (b) M/s Unison Holdings, presented on Advanced STP – Infrastructure as a Service (IaaS) model : Pay per use-mode. b. **17th May 2024** – (a) M/s Innovative Water Technology Pvt. Ltd., presented on Water & Wastewater solutions. (b) M/s Pi Green Innovation, presented on New Carbon-capture and Sequestration technology. (c) M/s Earth care Equipments Pvt. Ltd., presented on Organic Waste Convertor (OWC) – a decentralised way. c. **11th June 2024** – (a) M/s Vedanta Ltd., presented on Initiatives towards Carbon Emission reduction. (b) M/s Microbact Bio- cultures, presented on application of bio- cultures for sustainable environment. d. **9th July 2024** – M/s Coastal Impacts : Mr. Venkatesh Charloo held an interactive session on Marine Awareness followed by River-cleaning initiatives through various interventions. e. **19th July 2024** – (a) M/s Eco STP, presented on Net Zero Sewage treatment technology. (b) M/s Optismart Eco Solutions, presented on Potymatic : Hyper-efficient toilet system.

	f. **14th August 2024** – (a) M/s H_2O Dynamics India Ltd., on Sewage treatment plant / wastewater treatment plant - hgSBR technology developed by Bhabha Atomic Research Centre (BARC), Dept. of Atomic Energy, Govt. of India. (b) M/s Magna Locus on Bio culture for composting & non-hazardous waste. (c) M/s TSI Incorporated, USA/Casella Solutions, UK - on MCERTS Approved Dust Track Environmental Monitor & IEC 61672 Noise Monitoring equipment. (d) M/s Horiba, Japan - on Ambient Air Quality Monitoring System - USEPA approved, Continuous Particulate Monitor with X- ray fluorescence, Online Water Analyzers - TUV approved, CEMS and Portable Gas Analyzer etc
19.	Study visit of Rajya Sabha (RS) Petition Committee to Goa on 19th July 2024 wherein GSPCB attended.
20.	The GSPCB officials attended the National Conference on Mangroves for Climate Change Mitigation and the Sustainability of Coastal Populace organised by the Department of Botany, PES College, Farmagudi in association with Mangrove Society of India (MSI), Goa State Biodiversity Board (GSBB) and Goa State Pollution Control Board (GSPCB) held on 26th / 27th July 2024
21.	Board official attended the Lecture delivered by Prof. Kathiresam Kandasamy, Honorary Professor, Annamalai University, T. N. delivering guest-lecture titled "Mangroves of India : Globally Unique".
22.	Hon'ble Prime Minister's Initiatives – Ek Ped Maa Ke naam – Tree plantation drive carried out by the Board.
23.	CSE – MPCB workshop for Western region on 'Containing Antibiotic pollution from Manufacturing in view of Antimicrobial Resistance (AMR) held in Mumbai on 8th August 2024 – attended by the Staff of the Board and Member Secretary delivered online address during the inaugural session of the workshop on 'containing antibiotic pollution from manufacturing Anti Microbial Resistance (AMR)
24.	Department of Environment and Climate Change, Goa has Notified and published the Goa State Pollution Control Board (Method of Recruitment, Terms and Conditions of Service of Officers and Other Employees other than Member Secretary and Chairman) Regulations, 2022
25.	IT section participated in the Ease of Doing Business (EoDB) workshop being organised for 03-States and 02-UTs' on 9th August 2024
26.	Mrs. Jenica Sequeira, Scientist 'D' and Mrs. Sayadri Gurav, Scientist 'C' attended Advance onsite training programme on Continuous Emission and Effluent Monitoring System at Anil Agarwal Environment Training Institute, Nimli, Rajasthan – 6th – 9th August 2024 : 6th – 9th August 2024 attended by
27.	Presentation on Grease-separator by M/s Kessel, Germany to Board officials on 9th August 2024
28.	Mr. Sanjay Kankonkar ' Sc. 'B' and Mrs. Joshna Mahale, Scientific Assistant participated in Professional Development Programme on "Application of Bio-Engineering Technologies for Wastewater Treatment in Nalas, Drains & Canals" organized by Center for Climate Change Division, Engineering Staff College of India (ESCI), Hyderabad from 7th – 9th August
29.	VC with Dr. Sethi (IIT, Mumbai) / Dr. Thaseem (IIT, Goa) / Dr. Ajay Deshpande by Chairman and other officials of the GSPCB reg. State Action Plan for Clean-air : 12th August 2024 *(In response to the NGT order dated 09/05/2024 in the matter of OA no. 1595/2021 (SZ))*
30.	Demonstration of AQ-AIMS (Air-Pravah) to various stakeholder departments – 13th August 2024 in the Board office.
31.	38 Applications reviewed / scrutinised by the Technical Advisory Committee (since last Board meeting till 7th August 2024)
32.	15th August 2024 : Flag-hoisting at the hands of Mr. Mahesh Patil, Chairman, GSPCB in presence of Dr. Shamila Monteiro and Board officials / CEE, Goa State Coordinator

33.	The Department of Environment & Climate Change (DoE & CC), Goa has published the Deposit Refund Scheme (DRS) in the State Government's Official Gazette dated 16th August 2024
34.	Goa State Pollution Control Board (GSPCB) to receive CSR-Times Award during 11th National CSR Summit 2024 to be held on 31st August, 2024 in Darbar Hall, Raj Bhavan, Dona Paula.
35.	Advertisement has been published in local dailies last-week towards creating Public Awareness reg. ban on sale / buy / store of Plaster-of-Paris (PoP) idols during forthcoming Ganesh festival

V. Thereafter, the following Agenda items were taken up for discussion and deliberation.

Agenda item no. 1

Confirmation of the minutes of the 158th meeting of the Goa State Pollution Control Board held on 16/04/2024.

The Member Secretary informed the members that the minutes of the 158th meeting of the Board held on 16/04/2024 were forwarded to all the members vide this office letter no. 4/158/24-PCB/ Admn./3336 dated 15/05/2024. As no comments were received from any members, the minutes of the meeting were confirmed, so as to enter the same in the Minutes Book.

Agenda item no. 2

Follow up action of the 151st meeting of the Board held on 25th February, 2022

Table item no. 02 - Amendment to Goa Water and Air Rules 2021 dated 23rd December 2021 and amendment dated 27th July 2022. – Member Secretary informed the members that the Goa Water and Air Rules were notified on 21st December 2021, in which the applications were required to be submitted by the establishment with Chartered Accountant certificate with details of Gross Fixed Assets, as per the amended Rules, 2022, applications for Red and Orange category industries have to submit Chartered Accountant certificate and Green category of industries with Affidavit.

She further informed the members that the Board is now in receipt of a representation from M/s. Syngenta Biosciences Pvt. Ltd. requesting to consider Affidavit for Consent to Establish applications as the assets are not finalized and are not entered in the Books of Accounts as such Chartered Accountant is not able to give a certificate for the proposed assets.

Members deliberated and agreed for considering submission of Affidavit while submission of application for Consent to Establish for all Categories i.e. Red, Orange and Green, as per the draft attached to the agenda item

It was also approved to forward the proposal to Department of Environment and Climate Change for issue of Notification, for amending the Goa Water and Air Rules to include Affidavit for Consent to Establish applications

Agenda item no. 03

Follow up action on the decision taken at the 158th meeting of the Board held on 16/04/2024

Agenda item no. 3 - Revised Budget Estimate for the year 2023-2024 and Budget Estimate for the year 2024-2025 - Have been forwarded to the State Govt. Members noted the same.

Table item no. 3 – Resolution of the Board with respect to delegation of powers is being implemented by the Board. Members noted the same.

Table item no. 4 – Member Secretary is hearing the parties i.e Villa Owners as per the Resolution of the Board delegating powers to the Member Secretary. Members noted the same.

Agenda item no. 4
Extension of contract period of Junior Research Fellows

Member Secretary informed the members that as per the decision of the Board Junior Research Fellows were appointed on contract basis in the Scientific / Technical sections of the Board to assist in the project work. The contract was for a period of six month extendable to one year. Since the project was not completed, the contract was further renewed for one year.

Members perused and accorded ex post facto approval.

Agenda item no. 5
Re-instatement of the terminated staff as per Orders of the Hon. Supreme Court of India.

Member Secretary informed the members that the Hon'ble High Court of Bombay at Goa vide Judgement dated 29/09/2023 passed in WP/612/2015 quashed and set aside termination orders issued by the GSPCB to 6 of its employees in 2013 as well as the decision of GSPCB taken at its 114th meeting to abolish the posts against which they were occupying and also directed GSPCB to re-instate the 6 employees to the post that they were occupying with all consequential benefits including arrears of salary from 03/07/2013 till actual reinstatement in service. She further informed the members that the Board challenged this Judgement of the Hon'ble High Court before the Hon. Supreme Court of India vide Special Leave Petition(Civil) no. 24758/2023, and the Hon. Court was pleased to stay the operation of the Judgment

Member Secretary further informed the members that during the pendency of this matter, the Board was in receipt of a notice from the Tiswadi Legal Services Committee (by Order of the Conciliation Committee of the Hon. Supreme Court of India) directing the Board to attend the pre - Lok Adalat Conciliation sitting at Tiswadi Taluka Legal Services Committee, before the Presiding Officer at Altinho, Panaji Goa on 19/07/2024 to examine whether the matter before the Supreme Court of India (SLP(C) no. 24758/2023) could be settled among the parties. The hearing was attended by the Member Secretary and officials of the Board. She further informed the members that after extensive discussion, deliberation and negotiation, between the Presiding Officer, GSPCB and terminated employees; draft terms of settlement in respect of the matter were drawn up.

The Settlement terms were as follows:

a.	The Board shall reinstate the; Respondent no. 1 to the post of Scientific Assistant (Chemistry), Respondent no. 3 to the post of Senior Laboratory Assistant, Respondent no. 5 to the post of Junior Laboratory Assistant and Respondent no. 6 to the post of the Junior Laboratory Assistant. The period from the date of termination of their service in the Board till their reinstatement shall be added towards their service period with the Board
b.	Respondent no. 1, 3,5 and 6 shall each be paid arrears of salary amounting o 25% of the amount actually due and payable to each of them.
c.	It is further agreed that the 25% of the amount includes component of MACP. The amount from the 25% excluding MACP will be paid to Respondent no. 1, 3, 5 and 6 within 15 days of joining and the remaining amount as regards MACP will be paid within 45 days of joining by Resp no. 1, 3, 5 and 6
d.	The Respondent nos. 1, 3, 5 and 6 shall work with the GSPCB for minimum period of 3 years from the date of re-instatement

e.	The Respondent nos. 2 and 4 shall not have any claim to any re-instatement / employment with the GSPCB nor shall the GSPCB be liable to pay them any salary / arrears / compensation

She further informed the members that the matter was heard before the Special Lok-Adalat of the Hon'ble Supreme Court of India on 01/08/2024 at which time the Hon'ble Supreme Court was pleased to dispose off the SLP(C) no. 24758/2023 in terms of the agreed terms of Settlement as above. She also informed the members that the four officials have reported duties with effect from 16/08/20204 (B.N) and the Board is required to carry out the following exercise:

1.	Re-instate Respondents no. 1, 3, 5, 6 from the date of termination of their service in the Board i.e from 03/07/2013 and added towards the service period with the Board
2.	Arrears of salary amounting to 25% of the amount actually due and payable to each of them.
3.	25% of the amount which includes MACP, the amount excluding MACP to be paid within 15 days of joining and remaining amount as regards to MACP within 45 days of joining.
4.	The Board is required to make adjustment in the posts for drawing up their salaries against the vacant posts in the Board / create new posts
5.	A meeting of D.P.C is required to be convened to discuss the grant of MACP – I
6.	The Seniority list earlier drawn for the posts of Scientific Assistant, Senior Laboratory Assistant and Junior Laboratory Assistant is required to be re-drawn.

Member Secretary further informed the members that the re-instated four staff have been accommodated against the vacant positions as follows, till such time regular posts are available.

Sr.	Name of the post	Number of posts	Remarks
1.	Scientist 'B'	01	One no. Scientific Assistant will be accommodated against this vacant post and shall draw her salary as Scientific Assistant to the extent of her entitlement
2.	Scientific Assistant (Microbiology)	01	One no. of Senior Laboratory Assistant will be accommodated against the vacant post and shall draw her salary as Senior Laboratory Assistant to the extent of her entitlement
3.	Junior Laboratory Assistant	02	They shall draw her salary as Junior Laboratory Assistant from the vacant post

Member Secretary further informed that since there is no vacant post of Senior Laboratory Assistant, the Board has to create one post to reinstate the employee, as such one post of Senior Laboratory Assistant is required to be created, as per the Recruitment Rules notified in the Gazette dated 08/08/2024, with amendment at serial no. 12 of the R.R's to be read as follows: Promotion of Junior Laboratory Assistant of the Board with 05 years service in the grade.

The members noted that the staff have rejoined duties with effect from 16/08/2024 (B.N) as per the order of the Hon. Supreme Court.. Members also approved to carry out the exercise by the Board as listed at serial no. 1 to 6 above.

The Members also approved to create one post of Senior Laboratory Assistant as per the recruitment Rules notified by the Govt., with amendment to serial no. 12 and forward the proposal will be forwarded to the Dept. of Env. and Climate Change for creation of the post and amendment.

Agenda item no. 6

M/s. Bramha Corp Theme Park LLP, Village Pernem Taluka, North – Goa

Member Secretary informed the members that the Board was in receipt of an application from M/s Brahma Corp. Theme Park for establishing a theme park / garden in Survey's No. 310/0 and 86,700 sq. mtrs. under Survey No. 311/0) in Pernem. She further informed the members that the Cabinet has 'resolved to approve the proposal to declare an area admeasuring 97,224 sq. meters (i.e. 10,524 sq. mtrs under Survey's No. 310/0 and 86,700 sq. mtrs. under Survey No. 311/0) in Pernem as Investment Promotion area in exercise of the Powers conferred by sub- section (1) of Section 42 of the Goa Investment Promotion and Facilitation of Single Window Clearance Act, 2021 (Goa Act 19 of 2021) to establish a theme park/ garden in Goa by the Project Proponent M/s. Bramha Corp Theme Park LLP. A draft Notification bearing No. 3/11/2023-IND/333 to declare the aforesaid area as an Investment Promotion Area is also annexed to the Note for Cabinet.' Notification in this regard has also been published in Official Gazette Series II, No. 40 dated 04/01/2024.

Member Secretary further informed the members that as per Schedule I (A) (IX) of the Solid Waste Management Rules, 2016 as well as amended guidelines Buffer zone of 200 metres has to be maintained within the total area allotted for the solid waste processing.

Members deliberated on the issue and decided to forward the proposal to Central Pollution Control Board to seek their advice and views.

Agenda item no.7

Categorization of small eatery activities like shawarma, biryani centre, fast food, snacks centre, juice centre (only take away)

Member Secretary informed the members that the Board is required to categorize the activities like shawarma, biryani centre, fast food, snacks centre, juice centre (only take away), for which exercise was undertaken by the Categorization Committee of the Board to evaluate the pollution index score based on Water, Air and Hazardous waste pollution. She further informed the members that the calculated score works out to 12 and the Committee has recommended for categorization of the above activities under White category.

Members approved for Categorization of small eatery activities like shawarma, biryani centre, fast food, snacks centre, juice centre (only take away) under White category

Agenda item no. 8

Categorization of Floating Pontoon / Jetty

Member Secretary informed the members that the Board is required to categorize the activity of floating pontoon / jetty for which exercise was undertaken by the Categorization Committee of the Board to evaluate the pollution index score based on Water, Air and Hazardous waste pollution. She further informed the members that the calculated score works out to 37 and the Committee has recommended for categorization of the above activities under White category.

Members approved for Categorization of Floating Pontoon / Jetty Green category

Agenda item no. 9

Application for Consent to Operate (expansion) of M/s Nestle India Limited, located at plot no. 294/1, 2, 3 & 4 and 297/0, Usgao Industrial Area, Usgao, Ponda Goa.

Member Secretary informed the members that the Board was in receipt of the application form M/s Nestle India Limited for Installation of additional one oven , and the same was placed before the Technical Advisory Committee of the Board, based on the recommendations of the TAC Consent to Operate (expansion) was granted to the unit vide order no. 12/2024-PCB/2203436/R00015297 dated 29/05/2024 valid upto 29/07/2027.

Members noted and accorded ex post facto approval

Agenda item no. 10
Organizing Green Goa Summit (GGS)

Member Secretary informed the members that Green Goa Summit (GGS) on the theme : **Sustainable Futures – Accelerating ESG in Goa** on 31st August 2024 at Darbar Hall, Raj Bhavan, Dona-Paula is being organized in association with Vibrant Goa Foundation (VGF) and other stakeholders-concerned and Goa State Pollution Control Board. The Board has tied up for this prestigious event since the Board is entrusted / mandated with the task of regulating and monitoring the environmental pollution (*air – water – waste, etc.*,)

She further informed the members that it is a one-day event which is specifically aimed to address the State-specific Sustainable Development Goals (SDGs') related initiatives through four plenary sessions by inviting subject-experts in the field of –Alternate Energy generations / Green technologies / Circular economy / Wealth from wastes as well as allied topics.

Chairman informed the members that Mr. Suresh Prabhu, former Member of the Parliament, Director, CEE, NEERI and other reputed institutions will be participating.

Since GSPCB is one of the organizing partners the Board will support the event with funds to the tune of Rs. 10 lakhs.

Members perused and approved for incurring the expenditure to the tune of Rs. 10 lakhs.

Agenda item no. 11
3rd International Environment and Sustainability Summit Goa (IESSG – 2025)

Member Secretary informed the members that the Board has successfully conducted the 1st and 2nd International Environment and Sustainability Summit Goa and with the success at the Summits it proposes to organize 3rd edition of IESSG during the month of February next-year.

Chairman informed the members that during the above two Summits, the Board has signed a number of MoU with different firms in various fields of environment protection.

Member Secretary further informed the members that it is planned to collaborate with Confederation of Indian Industries (CII), Scientific institutions of National & International repute such as CSIR-National Environmental Engineering Research Institute (NEERI), Nagpur / Birla Institute of Technology, Pilani (BITS), Goa campus / National Institute of Oceanography (NIO) / National Center for Polar & Ocean Research (NCPOR) / European Union's Resources Efficiency Initiative (EU-REI) and an attempt is also being to rope in International firms of repute in the form of supporting the International event.

She further informed the members that the three days event will involve various firms of National & International repute demonstrating their pioneering technology / process / methodology /

product to address matters on environment management in the form of exhibition, plenary-sessions on interdisciplinary subjects / topics to be delivered by relevant subject-expertise of repute in the field concerned, it is also proposed to launch 'New Initiatives' being adopted / to be adopted to attain concept of "Harit-Economy" by the State.

Member Secretary informed the members that an amount of Rs. 4 core is proposed to earmark for this Event and a budgetary provision / financial estimate is proposed to be made for incurring expenditure for organization of such an International event.

Members deliberate and approved for organizing the 3rd version of the Summit and to make necessary budgetary provisions for meeting the expenses.

Agenda item no. 12

Fees for conducting Environmental Assessment.

Member Secretary informed the members that in exercise of the powers vested with the Board under section 7 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 11 of the Air (Prevention and Control of Pollution) Act, 1981, the Board has constituted a Committee/Assessor for undertaking Environmental Assessment, compliance monitoring, Surveys for assessment in various sectors / areas, related to aspects of Water, Air, Wastes, with the objective to ensure compliance of the Acts.

She further informed the members that in order to carry out the said exercise the Board is currently charging fees of Rs. 75,000/- to industries for conducting Environmental Assessment, irrespective of the type and sector of Industries, for the reports to be prepared by the External Assessors. She further informed that the Board is in receipt of representations from the Verna Industries Association (VIA) and some smaller industries requesting for reduction in the fees.

She further informed the members that the Board after taking into considering the cost involved has proposed the following fee structure in addition to charges towards water analysis.

Capital Investment of the unit	Environmental Assessment Fee
0 - Rs. 5 crores	Rs. 25,000/-
Rs. 5 crores to Rs. 50 crores	Rs. 50,000/-
Rs. 50 crores & above	Rs. 75, 000/-

Members deliberated and approved the revised fee structure towards conduct of Environmental Assessment.

Member Secretary further informed the members that terms and conditions for the compliance by the Assessors are listed in the Order.

Member desired information towards selection of members on the said Committee, to which Chairman informed that Individuals having vast expertise / knowledge in the relevant field are being considered as Assessors and they are deputed for assessment of the industries depending on the type of the manufacturing process of the unit.

Agenda item no. 13

Creation of additional posts of Lower Divisional Clerk and Multi-tasking staff Member Secretary informed the members that the present staff strength of the Board in respect of Administration requires to be enhanced due to the mandates given to the Board for which the Board has to conduct different

activities, as such to augment the staff strength the Board requires to create additional 05 nos. of posts of Lower Divisional Clerks and 03 nos. of posts of Multi-tasking staff.

After deliberations it was approved for creation of 05 ns. of posts of Lower Divisional Clerks and 03 nos. of posts of Multi-tasking staff as per the Recruitment Rules of the Board and forward the proposal to the Dept. of Env. and Climate Change for creation of the posts.

Agenda item no. 14

Payment of Professional Fees to Advocates of GSPCB

Member Secretary informed the members the State Govt. vide Order no. 1/19/2015/ LD(Estt.)/1515 dated 05/09/2023 and order no. 1/3/2021/LD/(Estt.)/34 dated 07/01/2022 modified the Terms and Conditions towards payment of professional fees and other allowances to the Government Advocates/ Additional Government Advocates/ Government Lawyers appearing in the High Court of Bombay at Goa, any High Courts or Tribunals of other States for defending the interest of the State Government.

After deliberation the Members decided to pay Professional Fess to the Advocates appointed by it to appear before Courts of Law, as follows;

Sr. No.	Number of year of practices	Amount of Retainership per month	Amount of fees per appearance/ max. Hearing
1.	Below 10 years	Rs. 20,000/-	Rs. 4,000/-
2.	Above 10 years to 15 years	Rs. 20,000/-	Rs. 4,500/-
3.	Above 15 years to 20 years	Rs. 20,000/-	Rs. 5,000/-
4.	Above 20 years to 25 years	Rs. 20,000/-	Rs. 6,000/-
5.	Above 25 years	Rs. 20,000/-	Rs. 8,000/-

With regard to Miscellaneous Expense and Travelling expenses incurred by Boards Advocates while appearing on behalf of the Board; the provisions as stated in the Order bearing no. 1/19/2015/ LD(Estt.)/1515 dated 05/09/2023, issued by the Government of Goa, in this regard, shall be followed by the Board.

Procedure for determining the 'Identification of Number of years of Practice / Experience of Advocates' shall also be followed as per the Order bearing no. 1/19/2015/LD(Estt.)/1515 dated 05/09/2023 issued by the Government of Goa.

The Government of Goa has vide order bearing no.1/3/2021/LD(Estt.)/34 dated 07/01/2022 revised the Professional fees to be paid to its Standing Counsels appearing on behalf of the State of Goa before the Hon'ble Supreme Court of India depending upon their number of years of practice in various Courts as follows:

Sr. No.	Number of years of practice as an Advocate	Professional Fees
1.	Upto 10 years practice	Rs. 7,000/- per hearing
2.	Above 10 years to 15 years practice	Rs. 9,000/- per hearing
3.	Above 15 years to 20 years practice	Rs. 11,000/- per hearing
4.	More than 20 years practice	Rs. 13,000/- per hearing
5.	For every drafting and filing of Special Leave Petition	Rs. 5,000/-

6.	Fees for every drafting and filing of Affidavit	Rs. 1,000/-
7.	Other expenses such as typing, photocopies, Court fees, purchase of papers, case extracts/citations etc.	Rs. 5,000/- per case

The Board has adopted this order in respect of payment of Professional fees to the Advocates appearing on its behalf before the Hon'ble Supreme Court of India.

Members noted and approved the same.

Agenda item no. 15

Adoption of the Audit Report of the Board for the financial year 2018-2019

Member Secretary informed the members that the Statutory Auditor appointed by the Government of Goa on the advice of Comptroller and Auditor General of India, vide notification no. 5/20/87-STE/DIR/Part-I/347 dated 16/07/2020 P.B. Deshpande & Co. (WR3203), has finalized the accounts for the financial year 2018-19.

Member Secretary informed the members that the Accountant of the Board, Mr. Jonathan Alphonso has taken initiatives in getting the Accounts of the Board audited and the audit of the subsequent years will be completed shortly. She also made a mention that the Accounts of the Board have been streamlined by the Accountant since his posting at the Board during the last three years..

Member Secretary also clarified that the Accounts of the Board could not be audited as the State Govt. was required to finalize the auditors. The auditors are now finalized for the subsequent years.

Member Secretary instructed the Accountant to highlight the financial performance and significant observations from the audit which are as follows:

I.	**Financial Overview:**	
	1.	Excess of Income Over Expenditure: The Board reported a total excess of income over expenditure amounting to ₹2,00,20,677.56 (Rupees Two crores twenty thousand six hundred seventy seven and fifty six paisa only) for the year 2018-19, compared to ₹3,37,27,746.91 (Rupees Three crores thirty seven lakhs twenty seven thousand seven hundred forty six and ninety one paisa only) in the previous financial year i.e. 2017-18. - a reduction in the surplus by approximately ₹1.37 crore.
	2.	Fixed Assets: As of the end of the financial year, the Board's fixed assets were valued at ₹21,44,14,482.00 (Rupees Twenty one Crores forty four lakhs fourteen thousand four hundred eighty two only), reflecting a significant increase from ₹12,75,13,014.00 (Rupees Twelve Crores seventy five lakhs thirteen thousand fourteen only) in the preceding year i.e. 2017-18. - an increase in assets by nearly ₹8.69 crore.
	3.	Short-Term Deposits (Fixed Deposits): The total amount of short-term deposits at the close of the financial year stood at ₹33,37,61,630.00 (Rupees Thirty three crores thirty seven lakhs sixty one thousand six hundred thirty only), a decrease from ₹35,15,63,782.00 (Rupees Thirty five crores fifteen lakhs sixty three thousand seven hundred eighty two only) reported in the previous year i.e. 2017-18, - reduction of approximately ₹1.78 crore.

	4.	Bank and Cash Balances: The closing balance in the Receipts and Payments account indicated a bank and cash balance of ₹1,64,33,845.16 (Rupees One crore sixty four lakhs thirty three thousand eight hundred forty five and sixteen paisa Only), along with an overdraft of ₹1,73,876.50 (Rupees One lakh seventy three thousand eight hundred seventy six and fifty Paisa only). - contrasts with the previous year's i.e. 2017-18 balance of ₹1,32,05,927.29 (Rupees One crore thirty two lakhs five thousand nine hundred twenty seven and twenty nine paisa only), which did not include any overdraft.
II.	**Auditor's Report**	
	1.	Un- reconciled Receipts: - The Board received amounts of ₹2,44,10,667.00 (Rupees Two cores forty four lakhs ten thousand six hundred sixty seven only) on 17th March 2018, and ₹50,00,000.00 (Rupees Fifty lakhs only) on 31st July 2018. The office could not provide explanations for the receipt of these amounts, and consequently, they have been recorded as un-reconciled under current liabilities.
	2.	Grants Accounting: During the fiscal years 2012-13 to 2015-16, assets were purchased for laboratory equipment without maintaining the necessary entries for the utilization of grants. The assets in question, purchased for a total amount of ₹2,94,42,553.00 (Rupees Two Crores ninety four lakhs forty two thousand five hundred fifty three only), were depreciated. To properly account for the grants, it will be necessary to reverse the depreciation and adjust it against the total grants
	3.	Reversal of Prior Year Expenses pending on Reconciliation: A total of ₹7,96,318.00 (Rupees Seven lakhs ninety six thousand three hundred eighteen only) was reversed due to cheques issued by the Board that were not submitted for clearance by the parties, leaving the amounts pending in the bank reconciliation. Additionally, a TDS amount of ₹6,135.00 (Rupees Six thousand one hundred thirty five only) was observed as outstanding in the bank reconciliation, though it was not traceable in the TDS portal or the TRACES website. Furthermore, TDS of ₹4,51,577.00 (Rupees Four lakhs fifty one thousand five hundred seventy seven only) deducted for Saligao building expenses remains unpaid, and an opening balance of ₹1,543.00 (Rupees One thousand five hundred forty three only) was noted as outstanding in the TDS ledger.
	4.	TDS Non-Compliance: The Board did not comply with TDS requirements for advance payments related to building projects and SAP software.
	5.	Outstanding Grant Balances: The audit revealed outstanding credit balances in several grant accounts, including ₹1,475.80 (Rupees One thousand four hundred seventy five and eighty paisa only) in pending grant utilization, ₹2,191.00 (Rupees Two thousand one hundred ninety one only) in grants related to fixed assets, and ₹63,23,434.00 (Rupees Sixty three lakhs twenty three thousand four hundred thirty four only) in an old CPCB account. No supporting documentation was provided to verify the origins of these grants.
	6.	TDS on FDR Income: The Board reported a TDS amount of ₹78,44,481.00 (Rupees Seventy eight lakhs forty four thousand four hundred eighty one only) on its income from Fixed Deposit Receipts (FDR) as a current asset as of 31st March 2019. The Board should claim credit for this TDS by filing income tax returns and seeking a refund.

Members perused and approved the Statement of Income and expenditure, Balance sheet as on 31/03/2019 and Receipts and Payment Accounts and agreed to adopt the Audited Report for the financial years 2018-2019 as prepared by P.B. Deshpande & Co., Chartered Accountants.

VI. With the permission of the Chair, the following Table items were taken up for discussion.

Table item no. 01

Draft Notification issued by Ministry of Environment, Forests and Climate Change for uniform Consent Management G.S.R. 423(E). New Delhi, the 19th July, 2024

Member Secretary informed the members that the Ministry of Environment, Forests and Climate Change has published a draft Notification for uniform Consent Management vie no. G.S.R. 423(E). New Delhi, the 19th July, 2024. She further informed the members that the Board officials have scrutinized the above draft vis-a-vis applicability to the Board and the same are attached to the agenda notes as 'Comments'.

Member Secretary instructed Shri Pravin Faldessai, Assistant Environment Engineer to make a presentation on the draft Notification and applicability of the same to the Board.

Members perused the agenda notes and also noted the presentation as made and decided to forward the decision of the Board to the Ministry of Environment, Forests and Climate Change, and Central Pollution Control Board for reconsideration..

Table item no. 02

Notification issued by the Dept. of Environment and Climate Change with respect to the Goa State Pollution Control Board (Method of Recruitment Terms and Conditions of service of Officers and other employees other than Member Secretary and Chairman) Regulations, 2022.

Member Secretary informed the members that the Dept. of Environment & Climate Change vide Notification no. 31/9/2010/ENVT&CC-DIR/Part/604 dated 30th July, 2024 has published in the official Gazette – Series I no. 19 dated 8th August, 2024 the Goa State Pollution Control Board (method of Recruitment, Terms and Conditions of service of Officers and other employees other than Member Secretary and Chairman) Regulations, 2022, which shall come into force on the date of publication in the official Gazette. She further informed that some of the points as notified requires clarity / amendments which are as follows:

The members perused the Notification and proposed the following additions / changes.

Serial no.	As published in the Gazette	As approved by the Board members
6 (2)	…… Leaves of employees of the Board will be governed as pert CCS (Leave) Rules, 1972 as amended from time to time	Rule no. 39 of the CCS (Leave) Rules shall be followed.
6 (3)	All types of leaves shall be eligible for encashment	
Group 'C' D.P.C/ D.S.C	Note: The Chairman of the Board may nominate any other officials from the Board not below the rank of Senior Environmental Engineer / **Scientist 'S'** to assist the DPC/DSC	Highlighted portion to be replaced by Scientist 'D'
Serial no. 10 of the R.R's	Scientific Assistant (Microbiology) Column no. 3 - Number of Post – 1 (One) subject to variation depending on work load **(Plus one)**	Deletion of the highlighted portion

Serial no. 12 of the R.R's	Scientific Assistant – Colum no. 12 – In case of recruitment by promotion / deputation/ absorption, transfer, grades from which promotion / deputation / absorption, transfer is to be made…. Promotion of Senior Laboratory Assistants of the Board having atleast 05 years service at the Board **and possessing Masters Degree in Science**	Deletion of the highlighted portion
Serial no. 11 of the R.Rs	Senior Laboratory Assistant Column no. 12 – Promotion of Junior Laboratory Assistant of the Board **with 03 years service in the grade and possessing minimum qualification of Bachelors Degree in Chemistry / Microbiology or any branch in Environmental Science.**	Deletion of the highlighted portion.

Members approved for incorporation of the above comments of the Board members so as to forward to the Dept. of Environment ad Climate Change for issue of suitable amendment in the notification.

As regards serial no. 6 (3) of the above Regulations, the members deliberated and decided as follows:

Serial no.	As published in the Gazette	Decision of the Members
6(3)	**With respect to matters relating to Provident Fund,** an equal contribution shall be made by the Board or retirement benefits as applicable to State Government employee shall be applicable to the employees of the Board and with respect to gratuity the same shall be regulated in accordance with law and rules governing the same.	The members decided to cap the Boards contribution to 12% of Basic + D.A of the respective Board employee to the EPF. Further, the members approved for issue of Office Order in this regard and to appraise the Dept. of Env. & Climate Change in this regard.

VII. With the permission of the Chair, Member Secretary placed the following issues before the Board:

1. Noise monitoring: Member Secretary informed the Board that the Board is presently in news due to the music in the Coastal belts. She also informed that as per the Noise Rules and Noise Action Plan notified by the Govt. the Authority to take action under the Noise Rules is the Police and Collector and role of the Board is limited to prepare the noise mapping and gathering noise data. Further, she also informed that the Dept. of Env. & Climate Change has given Noise metres to every Coastal Police Station and to the District Authorities. Further only in case of some particular requirement, GSPCB is doing the monitoring along with the Police and District Authorities in case of Sunburn.

After discussion and deliberations it was resolved to follow the Noise Action Plan.

As the matter is sub-judice, the Board will await the Court directions and accordingly take necessary action for compliance of the Court directives / observations.

2. Complaint with respect to STP – Member Secretary informed the members that the Board is in receipt of a complaint from Mr. Jaitley with respect to the functioning of STP in the housing complex i.e M/s Tata Housing Project at Sancoale, Mormugao, wherein the complex has installed a

STP in the basement of the building and the complainant has informed that the foul smell is causing him health issues. She further informed that the said housing complex was issued Consent to Operate for six months which was valid upto 21/06/2022. The builder M/s. Tata Housing Project (Rio De Goa) has applied for renewal of Consent which is pending with the Board.

The unit had applied for renewal of Consent to Operate and based on the complaint, the Board conducted inspection on 20/02/2023 and issued Show cause notice (SCN) was issued bearing no.2023/GSPCB/Letter/222933/Tech/26500 dated 29/03/2023, for operating the unit in violation of Consent condition, as analysis report of STP treated water sample indicated that the parameters such as BOD and feacal coliform were exceeding permissible limits indicating that the STP is operated inefficiently. STP treated effluent sample was collected which has failed to meet the prescribed standards.

Further the Board has issued Show cause notice (SCN) to the unit vide order no. 2024/GSPCB/others/11880/tech/15845 dated 23/10/2023 directing the unit to submit action plan for shifting of STP to adequate location as approved by Town & Country Planning Dept. and Directorate of Health and also for upgradation of STP so as to meet the prescribed standards. Further the unit was directed to show cause as to why Polluter Pay Principle (PPP) fine of Rs. 1,73,25,000/- should not be levied as Environmental compensation. Unit replied to the SCN via email dated 01/11/2023 and email dated 22/11/2023 and submitted that they have provided STP as per approval of the Town and Country Planning (TCP) and copy of the TCP approved plan has been attached. Unit also replied that they are meeting the STP standards and complying hence, upgradation is not required.

Fresh inspection was carried out 09/05/2024. Unit was in operation during the time of inspection. The inspection team collected sample of STP treated effluent and analyzed in the Board Laboratory. As per analysis report all the analyzed parameters are well within the prescribed permissible limit except feacal coliform where test result shows 240 MPN / 100 ml whereas permissible limit is 100 MPN / 100ml.

After deliberations the Board resolved to grant Consent with a condition to stabilize the STP and bring the feacal coliform within the permissible limits and submit a Bank Guarantee of Rs. 32 lakhs. Further, the unit to submit a plan and feasibility to shift the STP within a period of six months.

3. Mining at Mayem – It was informed to the members that Consequent to the Hon. High Court order for conducting road carrying capacity for iron ore transportation, the Board proposes to seek a proposal from Government / Scientific Institutions to conduct road carrying capacity and to monitor air pollution, the Board proposes to install air monitoring equipment on these routes.

The meeting ended with thanks to the Chair.

MINUTES OF THE 160TH MEETING OF THE GOA STATE POLLUTION CONTROL BOARD HELD ON 10TH DECEMBER, 2024 AT 3.00 PM, IN THE CONFERENCE HALL OF THE BOARD

I. The 160th meeting of the Goa State Pollution Control Board was held on 10th December, 2024 at 3.00 pm in the Conference hall of the Board.

The following members attended the meeting:

1.	Mr. Mahesh K. Patil, Chairman
2.	Director, Industries Trade and Commerce was represented by Ms. Geeta Joshi , Planning Officer.
3.	Chief Engineer Water Resource Dept. was represented by Mr. Vivek Joshi,, J.E
4.	Mr. Anant Pangam, Chief Inspector of Factories and Boilers
5.	Mrs. Shweta S. Dessai, Director Dte. of Food and Drugs Administration
6.	Director, Dte. of Health Services was represented by Dr. Cheryl de Sousa, CMO
7.	Shri Shubham Chodankar, Councillor, Corporation of the City of Panaji
8.	Shri Ashirwad T. Khorjuvenkar, Councillor, Mapusa Municipal Council,
9.	Shri Pradip K. Naik, Councillor, Curchorem – Cacora Municipal Council,.
10.	Shri Amey D. Naik, Ex Panch, Village Panchayat Sanvordem
11.	Shri Shrinivas Dempo, President, Goa Chamber of Commerce & Industries
12.	Shri Jack Sukhijia, President, Travel and Tourism Association of Goa
13.	Managing Director, Goa Waste Management Corporation was represented by Mr. Richard Fernandes, Deputy Manager.
14.	Dr. Shamila Monteiro, Member Secretary

II. Dr. Nutan D. Bicholkar, Councillor, Mapusa Municipal Council, Chairperson, Confederation of Indian Industries and Managing Director, Goa State Infrastructure Dev. Corpn. did not attend the meeting.

III. At the outset the Member Secretary welcomed the Chairman and Members for the 160th meeting of the Board.

IV. With the permission of the Chair, she instructed Mr. Pravin Faldessai, Asstt. Env. Engg. to make a presentation on the activities carried out by the Board during the last three months:-

1.	GSPCB was part of the GREEN GOA SUMMIT 2024 held on 31st August, 2024 . MOU/Letter of intent (LOI) was signed with , M/s Bisleri International Pvt Ltd., Goa State Pollution Control Board, Goa Waste management Corporation, Mineral Foundation of Goa and M/s Sampurn(e) Earth Foundation for waste management support in Goa. Letter of Intent was signed between M/s Goa Shipyard Limited, Goa State Pollution Control Board, Goa Waste management Corporation, Hon'ble MLA, Vasco Constituency, Mineral Foundation of Goa and M/s Sampurn(e) Earth Foundation to collaborate with various departments in addressing the waste management challenges by the local bodies and creating education & awareness. Exchange of letter of intent/MOU between M/s Paradeep Phosphates Ltd. Goa State Pollution Control Board, Goa Waste management Corporation Shri. Santosh Desai, Panch member, Sancoale Village Panchayat, Mineral Foundation of Goa (MFG) and M/s Sampurn(e) Earth Foundation to collaborate with various departments in addressing the waste management challenges by the local bodies and creating education & awareness . Exchange of MOU/LOI to collaborate and to implement Green-Key Certification for the hospitality industry for promoting environmental sustainable practices between Shri. Prabjot Sodhi, Center for Environment Education (CEE), Goa State Pollution Control Board TAJ Group of Hotels
2.	Goa State Pollution Control Board has been awarded the CSR Times Award at the hands of the Hon'ble Chief Minister, Government ofGgoa at function held on 21st August, 2024.

3.	A meeting was held on 21st August, 2024, to address Certification of Greenco rating of industries for Greener Environmental Practices
4.	Officials of GSPCB and GWMC conducted enforcement drive against illegal dumping of waste near Mugali junction in San Jose de Areal Panchayat, near Maruti Mandir in Davorlim Panchayat and Rawanfond circle in Aquem Panchayat and fined violators under Goa Non biodegradable Garbage Control Act for dumping of waste
5.	Eye checkup camp organized by GSPCBon 23rd August, 2024 in association with ASG hospital, Caranzalem.
6.	Board officials with support from officials of the Gujarat Pollution Control Board visited different Common Effluent Treatment Plant (CETPs) in the State of Gujarat to understand the operation and monitoring models. CETP for chemical, textile, fish processing units were inspected for understanding the best practices followed.
7.	Online ambient air monitoring devices installed under the CSR activity from M/s Colorcon Asia Pvt Ltd. at Verna IDC 14th October, 2024
8.	Review of Clean and Green Verna Industrial Estate program was initiated by GSPCB on 14th October , 2024
9.	The Energy and Resources Institute (TERI) in association with GSPCB and MES's Vasant Joshi College of Arts and Commerce, Zuarinager conducted cleanup drive on 14th October 2024
10.	GSPCB in association with Mondelez India Pvt. Ltd through Anubhuti Welfare Foundation a plog event "swachhata plog 2024" organized at the Miramar beach on 15th October, 2024. Over 150 local residents had demonstrated environmental stewardship and were able to recover about 1000 kgs of plastics and other recoverable at the Miramar beach. GSPCB in association with Mondelez India Pvt. Ltd through Anubhuti Welfare Foundation had organized a one-day event on 15th October, 2024 at Fortune hotel, Miramar, Goa on bringing Circularity in Goa: the light house project, a CSR initiative of Mondelez India Pvt. Ltd A letter intent (LOI) was shared between M/s United Breweries Ltd, Goa State Pollution Control Board and Goa Waste Management Corporation for addressing waste management challenges in Villages of Ponda Taluka. A creative art installation of "fisherman casting net" installed at Miramar circle, made out of recycled plastics as part of the light house project, a CSR initiative of Mondelez India Pvt. Ltd was unveiled by Hon'ble Chief Minister of Goa, Dr. Pramod Sawant . Dr. Pramod Sawant, Hon'ble Chief Minister of Goa launched a video titled: "Act now, Sustain tomorrow": joint initiative of Goa State Pollution Control Board & The Energy and Resources Institute (TERI) the video aimed in raising awareness and changing mindsets are key to combating littering and promoting environmental conservation.
11.	Students of Goa College of Home Science visited GSPCB on 1st October, 2024 as students exposure visit
12.	GSPCB organized beach cleaning drive in association with The Energy and Resource Institute (TERI) on 16th October, 2024 at Caranzalem beach
13.	GSPCB successfully cleared the National Accreditation Board for Testing and Calibration Laboratories (NABL) Audit 9-10th October 2024 Member Secretary informed the Board that the Auditors have recommend for grant of NABL Accreditation for 350 + parameters.
14.	A roadmap for the state on managing e-waste was organized on 11th November, 2024 by M/s Paripatram, a company that is pioneering the creation of a Circular Economy in E-waste Management.
15.	Board organized blood donation camp in association with Asilo Hospital, Mapusa on 20th November , 2024

16.	TAC members of the Board visited M/s Parsekar Foods in Dharbandora on 29th November, 2024
17.	Board has initiated process for carrying capacity of iron ore transportation and installation of real time monitoring equipments through Centre for Development of Advanced Computing (CDAC) Phase I completed, Phase II in progress:
18.	Clean and Green Cuncolim Industrial Estate. - plantation drive on World Environment Day - 5th June, 2024.
19.	GSPCB through CSR activity from M/s Colorcon Asia Pvt. Ltd has installed 08 nos. of ambient air quality monitoring devices in State of Goa including one at Cuncolim Industrial Estate. The device is connected online to GSPCB server for continuous ambient air quality monitoring.
20.	The Board has awarded the work of odour monitoring and characterization of odour compounds around Cuncolim IDC to M/s Normi Research Foundation. - The odour generating units mainly identified as fish processing units (6 nos. Washing and packing units and 1 fish meal unit - 20- 22 locations will be identify by GSPCB - Some locations will be selected in the core and buffer zone of some of the industrial units and some locations in the residential area nearest to the IDC - Study in progress
21.	The GSPCB has been conducting groundwater monitoring at 16 locations in Cuncolim IDC. Board has taken up installation of continuous ambient air quality monitoring system within Cuncolim IDC for real time monitoring of the ambient air in Cuncolim IDC (work in progress).
22.	Steel units are directed to install online stack monitoring system for the furnaces. Steel units are directed to rectify and increase the flue gas suction hoods.
23.	The Board directed the M/s Malco Energy to get the water accumulation removed and proper leveling, channelizing of water and filling of the pit to avoid accumulation of water.
24.	Studies were carried out by CSIR-NEERI during June, 2023 to June, 2024 which included site reconnaissance with respect to present condition of CSLF, review of data/information pertaining to CSLF, assessment of design, operation and temporary closure of CSLF, performance evaluation of CSLF_based on leachate and ground water monitoring, and delineation of final closure plan.
25.	Project undertaken for characterisation of the hazardous waste dump of M/s Sunrise Zinc Ltd at Cuncolim IDC through NEERI undertaken. Accordingly collection of samples of the dumps was completed on 30/11/2024. NEERI will be analysing the samples and submitting the reports to the Board.
26.	Water and Waste water mapping and utilisation of treated water plan November, 2024 has been initiated for steel units and fish processing units.

Agenda item no. 1

Confirmation of the minutes of the 159th meeting of the Goa State Pollution Control Board held on 21/08/2024.

The Member Secretary informed the members that the minutes of the 159th meeting of the Board held on 21/08/2024 were forwarded to all the members vide this office letter no. 4/159/24-PCB/ Admn./14281 dated 10/09/2024. As no comments were received from any members, the minutes of the meeting were confirmed, so as to enter the same in the Minutes Book.

Agenda item no. 2

Follow up action on the decision taken at the 159th meeting of the Board

Agenda item no. 2 – Follow up action of the 151st meeting of the Board held on 25th February, 2022 – The members noted that proposal for considering submission of Affidavit while submission of application for Consent to Establish for all categories has been forwarded to the Dept. of Env. &

Climate Change for issue of Notification.

Agenda item no. 5 and 13 - The members noted that the proposal for creation of one post of Senior Laboratory Assistant, five posts of Lower Divisional Clerks and three posts of Multi-tasking staff is being processed..

Agenda item no. 6 – The members noted that the proposal of M/s Brahma Corp Theme Park LLP, Village Pernem, North Goa is forwarded to Central Pollution Control Board for seeking advice and views..

Table item no. 01 – Members noted that the changes to be incorporated in the Draft Notification issued by Ministry of Env., Forests and Climate Change for uniform Consent management has been forwarded to the Ministry and Central Pollution Control Board.

Table item no. 2 – Members noted that the decision of the Board for amendment in the Notification has been sent to the Dept. of Env. & Climate Change, vide this office letter no. 4/159/24-PCB/Admn/16144 dated 03/10/2024 for needful.

VII. Agenda items discussed with the permission of the Chair: 2. Members noted that Consent has been granted to M/s Tata Housing Project, Sancoale, Mormugao with a condition to stabilize the STP and to bring the feacal coliform within the permissible limits and submit a Bank Guarantee of Rs. 32 lakhs, and further to submit a plan and feasibility to shift the STP within a period of six months.

3. Mining at Mayem - The members noted that the Board has initiated steps in this regard. Further, Member Secretary informed the members that a detailed agenda in this regard is placed in Agenda item no. 6.

Agenda item no. 3

Revised Budget Estimate for the year 2024-2025 and Budget Estimate for the year 2025-2026

Member Secretary informed the members that as per section 38 of the Water (Prevention and Control of Pollution) Act, 1974, Revised Budget Estimate for the year 2024-2025 and Budget Estimate for the year 2025-2026 prepared in Form VI and VII, prescribed in Rule 31 is placed before the members.

Member Secretary instructed Shri Jonathan Alphonso, Accountant of the Board to give a presentation on the Budget to the members.

The members were informed that the Budget expenditure for the year 2025-2026 is estimated at Rs. 3506.99 lakhs and the Revised expenditure Budget for the year 2024-2025 at Rs. 3207.94 lakhs. The Budget for Receipts for the year 2025-2026 is estimated at Rs. 3844.78 lakhs and the Revised Budget for Receipts for 2024-2025 is Rs. 3257.79 lakhs. It was further informed that the expenditure incurred from April, 2024 to September, 2024 was Rs. 1212.12 lakhs and the receipts from April, 2024 to September, 2024 at Rs. 1437.42 lakhs.

Members approved he Budget as prepared by the Board, so as to forward the same to the Department of Environment and Climate Change.

The detailed Budget as approved is attached as Annexure ‘A’.

Agenda item no. 4

Payment of rent towards the Boards hired premises.

(a) Member Secretary informed the members that the Board had rented its premises to the Department of Municipal Administration (DMA), the premises on the 1st floor of Dempo Tower Bldg., at Patto, Panaji on a monthly agreed rent of Rs. 6,00.000/- with an increase in 10% annually for a period of five years (i.e from September, 2018 to September, 2023. The members were informed that the DMA is yet to sign the Agreement from 1st March, 2021 till date. The payment towards rent is outstanding since March, 2023. Member Secretary further informed the members that the tenure of 5 years has since expired and the department is yet to request the Board for extension in occupying the premises.

Members noted the same and expressed concern with respect to non payment of the rent by the Department of Municipal Administration. The members requested the Member Secretary to convey the concern of the Board to the department and to inform the department to expedite signing of the Agreement and payment of the outstanding rent.

(b) Member Secretary informed the members that the Board has rented its premises on the 4st floor at Dempo Towers, Patto Panaji (admeasuring 327 sq. mtrs.) to the Goa State Environment Impact Assessment Authority, on a monthly rent of Rs. 3,00,000/- with an increase in 10% annually, for a period of five years (i.e from 01/07/2019) which was accepted by the GSEIAA vide their letter no. 6/9/2019/ENVT-DIR/144 dated 16/03/2019. The members were also informed that GSEIAA is yet to sign Agreement in this regard. The payment of rent is outstanding since November, 2023.

Member Secretary further informed the members that GSEIAA is requesting for revision in hire charges of the rent payable, Members were of the opinion that since the premises is in a prime location, the rent is reasonable.

Members noted the same and expressed concern with respect to non payment of the rent by GSEIAA as per the agreed terms. The members requested the Member Secretary to convey the concern of the Board to the department and to inform the department to expedite signing of the Agreement and payment of the outstanding rent.

Agenda item no. 5

Creation of additional posts in the Board in Scientific and Administration Section.

Member Secretary informed the members the Board is required to be strengthened with additional staff, with the expansion of scope and activities of the Board. She further informed that there is a need to create the following posts:

1. 02 nos. of posts of Scientific Assistants, one each for Water and Air Laboratory in Scientific section (as per the notified Recruitment Rules)

2. One no. of post of Scientific Assistant (Microbiology) in Microbiology laboratory in Scientific section (as per the notified Recruitment Rules)

3. 02 no. of posts of Senior Laboratory Assistants (fresh recruitment Rules are framed) inorder to assist the Scientific Assistant (Microbiology) in the laboratory.

4. 01 no. of post of Head Clerk, in the Technical section. The Recruitment Rules have been modified since the earlier recruitment rules states ‘Promotion of UDC of the Board with 08 years

service in the grade OR L.D.C. / D.E.O. / R.K. of the Board having 12 years service in the grade and possessing Bachelor's Degree.') It was approved to change the column. No. 12 of the R.R's as follows: Promotion: Promotion of UDC of the Board with 03 years service in the grade Deputation: Transfer on deputation of suitable official, in Government Department/ organization/ institutions on regular basis and having at least two year service in the Grade (period of deputation shall not ordinarily exceed 03 years).

5. 03 nos. of post of Upper Division Clerk (Two in Technical section one each for North and South Goa and one for Admn. section). (as per the notified Recruitment Rules)

Members approved for creation of the above posts and also the R.R's Rules for the post of Senior Laboratory Assistant (Microbiologist) and for revision of the R.Rs for the post of Head Clerk, so as to forward the proposal to the Department of Environment and Climate Change. The Recruitment Rules as approved are enclosed as Annexure 'B'.

Agenda item no. 6

Air Monitoring fees towards monitoring of transportation routes for freshly mined/e-auction/ royalty paid iron ore

Member Secretary informed the members that the Hon. High Court in Writ Petition (PIL) No. 06 of 2024 – The Mulakh Khajan Farmers Association & Anr. V/s The Directorate of Mines and Geology & Ors. in Judgement dated 29/06/2024 has directed as follows:

1.	A proper study be carried out by preparing a report specific to each route permitted by DMG and GSPCB for transportation of ore through the village on the basis of carrying capacity of each road.
2.	DMG and GSPCB shall, as far as possible, monitor the trucks on each route on Real Time basis, install CCTV cameras connected to DVR at Panchayat Ghars and/ or public schools
3.	DMG and GSPCB shall as far as possible install pollution monitoring devices of the nature that may upload information/ data to the server of the DMG and GSPCB in Real Time to enable the Departments to monitor the air quality along the designated routes in Real time and to arrest the movement of trucks if required to bring air pollution to within permissible norms. It may be noted that prior to the Hon'ble High Court order on receipt of the application for transportation of e-auction/ royalty paid iron ore the monitoring of the AAQ on these routes was conducted manually twice a week for the duration of transportation as per application

She further informed the members that the Board at is 142nd meeting held on 28th February 2019 had decided to levy fee of Rs. 3.00 lakhs initially for carrying out monitoring along the transportation route and the expenses over and above to be paid by the transporter with a Bank Guarantee in the event of any violations.

Member Secretary informed the members that now the Board has appointed M/s. Centre for Development of Advanced Computing (C-DAC) for installing online monitoring station along the transportation routes. She further informed the members that with online monitoring system, the data daily average will be recorded continuously. The cost of each monitoring system works out to Rs.13,84,920.00/- inclusive of solar panel, display board etc. and the total expenditure is Rs.4,21,90,599/- and the expected receipt of fees based on the proposed number of applications for transportation is Rs. 6.40 crores in 2 years.

She further informed that the applicants for e-auctioned ore will pay annually per route, and the mines will pay for the validity of the Consent i.e 5 years, the balance over the expenditure will be utilized for maintenance and purchase of new monitoring system, if required.

After deliberations it was approved to charge as per the following fee structure:

E-auction/Royalty paid Iron ore transportation	
MT	**Fees in lakhs**
Less than 10,000	Rs. 3.00
10,000 to 50,000	Rs. 5.00
More than 50,000 to 75,000	Rs. 7.50
More than 75,000	Rs. 10.00

Freshly mined ore transportation	
MMTPA	**Fees in lakhs**
Less than 0.5	Rs. 25.00
From 0.5 to 1	Rs. 35.00
More than 1 to 2	Rs. 50.00
More than 2 to 5	Rs. 75.00
Greater than 5	Rs. 100.00

Agenda item no. 7 & 8

Ex post facto approval for Consent to Establish and Consent to Operate of M/s Fomento Resources Private Limited - Block V – Advalpale - Thivim Mineral Block Survey no- 22(p), 28(p), 29(p), 109(p), 110(p), 111(p), 112(p), 116(p), 117(p), 118(p), 119(p), 120,121, 122(p), 123(p), 124(p), 125(p) and 126(p) of Advalpale Village, Bicholim Taluka and survey no. 86 of Thivim Village, Bardez Goa.

Member Secretary informed the members that the Board was in receipt of application from the above referred mining unit for Consent to Establish and the same was recommended by TAC for grant of conditional Consent to Establish, accordingly the unit was issued Consent to Establish, and the same was placed before the Board for according ex post facto approval.

Subsequently the mining unit applied for Consent to Operate and TAC had recommended for grant of Consent for a period of six months with certain conditions. Accordingly, the Board issued Consent to Operate, and the same was placed before the Board for according ex post facto approval.

Members perused the agenda note and accorded ex post facto approval.

Agenda item no. 9 & 10

Ex post facto approval for the application for Consent to Establish and Consent to Operate to M/s Salgaocar Shipping Company Private Limited – Block -II – Sirigao - Mayem Mineral, Sirigao Village of Bicholim Taluka, Survey Nos. 1,2,3,4,5,6,7, 46,47,48,84, 90,91,92,93, 94, 95, 96, 97, 98 & Road and at Mayem Village of Bicholim Taluka and Survey Nos. 12,47,60,61, 62, 79, 80, 84, Road, 48, 56, 57, 58 & 59.

Member Secretary informed the members that the Board was in receipt of application from the above referred mining unit for Consent to Establish and the same was recommended by TAC for grant of conditional Consent to Establish, accordingly the unit was issued Consent to Establish, and the same was placed before the Board for according ex post facto approval.

Subsequently the mining unit applied for Consent to Operate and TAC had recommended

for grant of Consent, incorporating the relevant conditions stated in the Environmental Clearance for timely compliance prior to actual operation of mine.

Members perused the agenda note and accorded ex post facto approval.

Agenda item no. 11 & 12

Ex post facto approval for the application for Consent to Establish and Approval for Consent to Operate of M/s. Rajaram Bandekar (Sirigao) Mines Private Limited – Block - II Sirigao - Mayem Mineral located in Survey no-. 47, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 69, 70, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 94, 95, 79& Road of Village Sirigao & in Survey No. 84 of Village Mayem.

Member Secretary informed the members that the Board was in receipt of application from the above referred mining unit for Consent to Establish and the same was recommended by TAC for grant of Consent to Establish, accordingly the unit was issued Consent to Establish, and the same was placed before the Board for according ex post facto approval.

The mining unit has now applied for Consent to Operate. The members perused the agenda note and accorded approval for grant of Consent to Operate..

Agenda item no. 13

Ex post facto approval for the application for Consent to operate of M/s. Chowgule & Company Pvt. Ltd (Iron Ore dump handling at Sirigao village) located in Survey Number 12 of Sirigao, Village of Bicholim –Goa

Member Secretary informed the members that the Board was in receipt of application from the above referred mining unit for Consent to Operate and the same was recommended by TAC for grant of conditional Consent to Operate. Accordingly the unit was issued Consent to Operate, and the same was placed before the Board for according ex post facto approval.

Members approved for grant of ex post facto approval

Agenda item no. 14

Categorization of chicken / mutton shops / centre:.

Member Secretary informed the members that the Board receives complaints with respect to operation of Chicken / Mutton shops / centres in the jurisdiction of local bodies with regard to disposal of waste water and operation of the same without the Consent to Operate of the Board. She further informed that the activity involves storing of birds, culling and cutting and the source of water is from local bodies which is utilized for cleaning and floor washings..

Board receives numerous complainant against the chicken/Mutton shops/ centres located within the jurisdiction of local bodies regarding waste water disposal and operation of the units without Consent to Operate from the Board.

The activities involved at these chicken cutting centers are storing of birds, cutting/ culling of birds and cutting into required sizes as per the requirement of the customers. The source of water is from local bodies and usually utilized for cleaning and floor washings.

Member Secretary further informed the members that as per the guidelines of Central Pollution Control Board, cutting of birds is not categorized (i.e Red, Orange, Green), as such the Board carried out the exercise of collecting effluents of waste water samples from chicken centres in South Goa and

calculated their score index, which was found to be in the range of 21 and 40, and the score falls under Green category.

She further informed the members that inquires were made with Kerala State Pollution Control Board and it was informed that the disposal of effluent is in septic tank and soak pit for individual units.

Members after deliberations approved to categorize Chicken / Mutton shops / Centre under Green category with the condition that:

1.	Wastewater shall not be discharged outside the premises of the unit.
2.	Wastewater generated in the unit has to be disposed through septic tank, soak pit system for individual units.
3.	In case of the market complex established by local bodies, the effluents to be connected to sewerage system after primary treatment or Establish an ETP for collective treatment of the effluent from all the units. (if the number of units in complex is more than 10 nos).
4.	The primary treatment in case of sewerage system may be established by the local bodies.
5.	The chicken cutting waste generated in the unit has to be disposed safely through either directly or through any authorized waste collection agency/local bodies to a rendering plant holding valid Consent of the Board.

Agenda item no. 15

Application of M/s Deccan Fine Chemicals (I) Pvt. Ltd. located at Survey No 28/1-A, Santa Monica Works, Corlim, Ilhas-Goa.

Member Secretary informed the members that the Board is in receipt of an application from M/s Deccan Fine Chemicals (I) Pvt. Ltd. located at Survey No 28/1-A, Santa Monica Works, Corlim, Ilhas-Goa, for amendment to Consent to Operate under the Air Act and the Water Act for the change in the product mix as per the following table:

S.No	Technical Products	Production volume as per CTO (MTPA)	List of Product & volume for the proposed change in product mix (MTPA)
	Technical Production volume in TPA		
1	Thiamethoxam	4500	2000
2	Pretilachlor/Revysol	1700	2000
3	CPTAP	2000	2000
4	TCAN	1200	1000
5	Metobromuron / NKK-1304	1750	1435
6	Pilot Plant products	15	15
7	Picoxystrobin / 2,6,Difluroaniline	500	1000
8	MOAT	600	1800
9	DCP Ketone	135	700
10	DCF-TFAP	50	200
11	560I (FENMEZODITIAZ)	100	150
12	DIMPA	100	150
13	XDE647/X-475	0	200
	Total	12650	12650

	By product	As per CTO	Proposed change
1	Bromide containing stream for Bromine recovery	12300 MTPA	10000 MTPA
2	Potash stream for preprocessing	7000 MTPA	8332 MTPA OR 26890 MTPA
3	20-24% Aqueous KCl solution OR 90%KCl salt	18700 MTPA OR 5700 MTPA	2198 MTPA OR 10460 MTPA OR
4	75% Sulphuric Acid	230 MTPA	600 MTPA
5	Aluminum chloride solution	0	3500 TPA
6	Dilute Acetic acid	0	600 TPA
	Total in MTPA	25230	25230

She further informed the members that the unit has submitted No Increase in Pollution Load (NIPL) certificate from the BITS Pilani, Goa Campus and the unit has informed that the proposed change in the product mix has lower pollution potential than that of the existing products permitted in the environmental clearance and there will be no increase in the pollution load if the products given in the proposed product mix are manufactured in totality.

Member Secretly further informed the members that application for amendment to Consent to Operate for the change in product mix was placed before the Technical Advisory Committee and the Committee has recommended for grant of Consent to Operate.

Members deliberated and approved for grant in amendment to Consent to Operate under the Air Act and the Water Act for the change in the product mix

V. With the permission of the Chair, the following Table items were taken up for discussion.

Table item no. 01
Adoption of Auditors Report and Financial Statements for the Financial Year 2019-2020.

Member Secretary informed the members that M/s P.B. Deshpande & Co. Auditors appointed by the State Govt. has submitted the Audit Report for the financial year 2019-2020. She requested the Accountant of the Board, Shri Jonathan Alphonso to brief the members on the points raised. The following was highlighted.

Financial Overview:
Excess of Income Over Expenditure: The Board reported a total excess of income over expenditure amounting to ₹6,26,87,297.45 (Six crores twenty six lakhs eighty seven thousand two hundred ninety seven and forty five paise only) for the year 2019-2020 compared to ₹2,00,20677.56 (Two crores twenty thousand six hundred and seventy seven and fifty six paise only) in the previous financial year i.e. 2018-2019. This indicates an increase in the surplus by approximately ₹4.26 crore.

Fixed Assets: At the end of the financial year, the Board's fixed assets were valued at ₹23,74,70,428.00 (Rupees Twenty-three Crores seventy four lakhs seventy thousand four hundred and twenty eight only), reflecting a increase from ₹21,44,14,482.00 (Rupees Twenty one crores forty four lakhs fourteen thousand four hundred and eighty two only) in the preceding year i.e. 2018-2019. This represents an increase in assets by nearly ₹2.30 crore.

Short-Term Deposits (Fixed Deposits): The total amount of short-term deposits at the close of the financial year stood at ₹36,09,85,756.00 (Rupees Thirty six crores nine lakhs eighty-five thousand

seven hundred and fifty six only), an increase from ₹33,37,61,630.00 (Rupees Thirty three crores thirty-seven lakhs sixty-one thousand six hundred thirty only) reported in the previous year i.e. 2018-2019, indicating a increase of approximately ₹2.72 crore.

Bank and Cash Balances: The closing balance in the Receipts and Payments account indicated a Bank and cash balance of ₹3,89,37,447.11 (Rupees Three Crore eighty nine lakhs thirty seven thousand four hundred forty seven and eleven paise only), The previous year's balance i.e. 2018-19 was ₹1,64,33,845.16 (Rupees One Crore sixty four lakhs thirty three thousand eight hundred and forty Five and sixteen paisa only), which included an overdraft of ₹1,73,876.50.

Auditor's Report:

Unreconciled Receipts: The Board received amounts of ₹2,44,10,667.00 (Rupees Two Crores forty four lakhs ten thousand six hundred sixty-seven only) on 17th March 2018, and ₹50,00,000.00 (Rupees Fifty lakhs only) on 31st July, 2018. The office could not provide explanations for the receipt of these amounts, and consequently, they have been recorded as un-reconciled under current liabilities.

Grants Accounting: During the fiscal years 2012-2013 to 2015-2016, assets were purchased for laboratory equipment without maintaining the necessary entries for the utilization of grants. The assets in question, purchased for a total amount of ₹2,94,42,553.00 (Rupees Two Crores ninety four lakhs forty-two thousand five hundred fifty-three only), were depreciated. To properly account for the grants, it will be necessary to reverse the depreciation and adjust it against the total grants.

TDS Non-Compliance:

TDS on Advertisement amounting to Rs 6135/- is seen as payable under current liabilities. However, such amount was not visible as outstanding on TDS portal.

TDS of Rs. 3,04,311/- was deducted towards Saligao Building Expenses but no Payment was made.

An opening of Rs 1,543/- was outstanding in TDS ledger for which no explanation was provided.

TDS of Rs. 55,555/- pertaining to the party SFC Environmental Technologies Private limited is not accounted in the Books and corresponding income of Rs 5,55,556/- is not accounted as there is no record of such receipt to the Board.

TDS Non-Compliance: The Board did not comply with TDS requirements for advance payments related to building projects and SAP software.

Outstanding Grant Balances: The audit revealed outstanding credit balances in several grant accounts, including ₹1,475.80 (Rupees One Thousand four hundred seventy-five and eighty paise only) in pending grant utilization, ₹2,191.00 (Rupees Two thousand one hundred ninety-one only) in grants related to fixed assets, and ₹12,88,337/- (Rupees Twelve lakhs eighty eight thousand three hundred and thirty seven only) in an old CPCB account. No supporting documentation was provided to verify the origins of these grants.

Amounts receivable: A sum of Rs. 31,86,000/- was claimed as receivable from Department of Environment and Climate Change towards Implementation of Single Window System and Integrating it with OCMMS software vide letter no. 10/1/19PCB/IT/21343 dated 16/03/2020. The amount was received on 10/08/2020. Since the accounts of the corporation are required to be prepared on accrual basis, the profit for the year are understated to the extent of Rs.38,86,000/-

Grant pending Utilization: An amount of Rs 50,00,000/- was received towards as grant for purchase of CAAQMS on 05/04/2019. However, the entries for closure of the grant was not passed as per provision of AS 12.

Account of Goa State Expert Appraisal Committee : As per letter No 3/181/20142/STE/DIR/ Part-I/EIA-GOA/143 received from Goa State Expert Appraisal Committee on 27/03/2019 the Board was notified that the Board shall function as Secretariat for Goa State Environmental Impact Assessment Authority (Goa-SEIAA) and Goa State Expert Appraisal Committee (Goa - SEAC) constituted by the Government of India and also continue to maintain the accounts of the said Committee. However, although the State Government authorised the Board for the same the Board disagreed and transferred Rs. 29,62,242 on 26/11/2019, Rs.1,16,52,511 on 31/12/2019 and Rs 25,000/- on 10/01/2020 to Goa State Environmental Impact Assessment Authority(Goa-SEIAA).

Utilization Certificate : Utilization Certificate not submitted for expense of Rs 55,906/- during financial year 2019-2020 from grant of MoEF. Statement of expense utility certificate was to be given to Member Secretary, CPCB, Delhi, in prescribed format GFR 2017

TDS on FDR Income: The Board reported a TDS amount of ₹83,11,780.00 (Rupees Eighty three lakhs eleven thousand seven hundred eighty only) on its income from Fixed Deposit Receipts (FDR) as a current asset as of 31st March, 2020. The Board should claim credit for this TDS by filing income tax returns and seeking a refund.

The Board thereafter passed the following Resolution unanimously:

"RESOLVED THAT Receipts & Payments, Income & Expenditure Account and the Balance sheets together with notes thereon for the financial year ended on 31st March, 2020, be and are hereby approved.

RESOLVED FURTHER THAT the Chairman, the Member Secretary, the Assistant Accounts Officer and Accountant are hereby authorized to sign the Audited Annual Accounts of the Goa State Pollution Control Board jointly".

Members suggested that the Board write to the State Government for appointment of auditors for the remaining financial years so that the accounts of the Board could be audited in time.

Table Item No. 02

Establishment of Online Platform to monitor compliance to the Water and Air Act and Waste Management Rules for Non Bio Degradable Waste

Member Secretary informed the members that the Board is in receipt of communication from Hon'ble. Chief Minister wherein the issue of accidents being reported in the Scrap yards was highlighted. Inorder to avoid accidents in scrap yards, it was recommended that Board shall establish an online platform where all scrap yards in Goa shall update the details of the waste and its quantity to procure, sell or transport from or to Goa along with the details of the Vendors/Purchasers. It was also suggested that the Police Department be provided with Access to the Real-time Data. In this regard the Board is required to prepare a comprehensive plan to avoid recurrence of such incidents in the scrap yards in near future.

She further informed the members that the Board issues Consents under the Water and Air Acts and also Authorizations under the provisions of various Waste Management Rules, notified under the Environment Protection Act, 1986, the quantum of generation of non biodegradable waste and

other waste is specified in the Consent. Further, the Board is also Registering the Waste Collectors in terms of order passed by the Hon'ble High Court.

In this regard, Member Secretary informed that to provide effective monitoring of the waste collection, transportation, storage and disposal in compliance to the various Acts and Rules in force, the Board is considering to Develop a Digital Waste Monitoring Platform (DWMP) by engaging services of agencies having relevant experience in Developing and operating such platforms such as Digital Market Place etc by call of Expression of Interest / E-Tender, for achieving the objective of safe and scientific collection, transportation and disposal of waste

The Agency is expected to provide the following services :-

Design, develop, implement, operate and maintain the Digital Waste Monitoring Platform at no cost to the Goa State Pollution Control Board including providing the Cloud Services for the Storage for five years which may be extendable for further three years in the intervals of one year each.

Establish enforcement measures, verification and certification of the waste including penal actions to ensure full compliance by all stakeholders involved in the waste collection, storage, transportation and processing minimizing regulatory violations.

Build capacity across departments by ensuring proper staffing, conducting training sessions, and providing ongoing operational support to all teams involved.

The agency shall handover the Digital Waste Monitoring Platform to the Board after completing the initial tenure or upon termination of contract. All the legal ownership of the digital platform shall be with the Board.

Member Secretary further informed that once the platform is created, the platform will register the waste generators, authorized waste collectors and traders including waste storage facility providers, / aggregators, transporters, recyclers, re-utilizers etc. and monitor the transport and disposal of all such non biodegradable waste generated from facilities having Consent / Authorization of the Board.

The Digital Platform will provide the following services:

1.	Easy registration and account setup for smooth on boarding of generators and processors
2.	Waste-tracking and inventorization in real-time
3.	Live auction portal for hassle-free, transparent asset disposal
4.	Integrate GWE with different entities such as payment gateways, banks, UIDAI, GSTIN and any other ancillary integrations
5.	Single-point Quality Control where applicable
6.	Digital documentation flow for full traceability of Waste
7.	Reports and dashboards for Buyers and Sellers to track financials relating to waste exchange, sustainability metrics, and compliance in real time
8.	Real-time tracking of waste movement and overview of the ecosystem and efficient working
9.	Advanced analytics and reporting to identify trends and make informed policy decisions for targeted localized interventions
10.	Reports and dashboards for portal Administrator on system identified vulnerabilities, potential compliance violations, audits reports
11.	Grievance redressal mechanism for all stakeholders
12	Any other ancillary tech services needed for proper

The members approved the following terms to be incorporated in the Tender document:

The Platform Operator will have to provide requisite manpower along with comprehensive training, SOPs, guidelines, and support for personnel, processes, and systems to ensure smooth and successful operation of DWMP. The Platform Operator shall facilitate on boarding of stakeholders by offering support for Processors, Generators and Logistics Providers during the registration process, ensuring smooth integration into the DWMP.

Wherever applicable, the Platform Operator oversee the quality control of Waste across different locations and categories, upholding standards throughout the waste Platform process through adequate due diligence at an additional cost to be borne by the stakeholder who requires such Quality Check services.

The Platform Operator shall coordinate logistics and fulfillment services through a Logistics Partner across multiple locations and waste categories, ensuring efficient movement and handling of Waste. This would include end-to-end tracking of waste movement from the point of generation to the point of disposal for an unbroken chain of custody.

The Platform Operator/Board shall open and manage an escrow account to secure financial transactions, ensuring trust and transparency between all stakeholders.

The Platform Operator shall manage payment processing for both Registration Fee and Transaction Fee, ensuring timely and financial transparency. This would include integration of a nodal bank account (escrow account) with the DWMP, and provide periodical reports of the transactions to the Platform Administrator. Provide end-to-end grievance redressal support to all stakeholders, addressing needs related to pre-on-boarding, deal-making, and fulfillment, ensuring a smooth and transparent user journey.

Revenue Sources: This DWMP would be developed by the Bidder with "Zero Cost to the Goa State Pollution Control Board" and the cost of design, develop, implement, operate and maintain would be recovered by the Platform Operator through revenue streams provided in this Tender Document.

Bid Process: The Bidder will have to submit the Processing Fee i.e. the % on the total Invoice Amount. The tender shall be decided only the lowest % bid received.

Members approved for floating of e-tender to undertake the works enlisting the above terms and conditions.

The meeting ended with thanks to the Chair.

MINUTES OF THE 156TH MEETING OF THE GOA STATE POLLUTION CONTROL BOARD HELD ON 12TH SEPTEMBER, 2023 AT 3.00 PM, IN THE CONFERENCE HALL OF THE BOARD

I. The 156th meeting of the Goa State Pollution Control Board was held on 12th September, 2023 at 3.00 pm in the Conference hall of the Board.

The following members attended the meeting:

1.	Mr. Mahesh K. Patil, Chairman
2.	Mrs. Jyoti Sardessai, Director, Dte. of Food & Drugs, Govt. of Goa
3.	Directorate of Health Services, was represented by Dr. Preetam Naik, Chief Medical Officer

4.	Shri Anant S. Pangam, Chief Inspector of Factories and Boilers
5.	Shri Shubham Chodankar, Councillor, Corporation of the City of Panaji
6.	Shri Ashirwad T. Khorjuvenkar, Councillor, Mapusa Municipal Council,
7.	Shri Pradip K. Naik, Councillor, Curchorem – Cacora Municipal Council,.
8.	President, Goa Chamber of Commerce & Industries was represented by Mr. Sanjay Amonkar, Director General, GCCI
9.	Shri Nilesh Shah, President, Travel and Tourism Association of Goa
10.	Managing Director, Goa Waste Management Corporation was represented Mrs. Nandan Prabhudessi, General Manager
11.	Mr. Harish Adconkar, Managing Director, Goa State Infrastructure Development Corporation
12.	Dr. Shamila Monteiro, Member Secretary

Chairperson Confederation of Indian Industries expressed his inability to attend the meeting. Leave of absence was granted.

II. At the outset the Member Secretary welcomed the Chairman and Members for the 156th meeting of the Board. With the permission of the Chair, she instructed Dr. Mohan Girap, Scientist 'C' to make a presentation on the activities carried out by the Board during the last three months:

1.	Knowledge Sharing sessions were held - platform for understanding latest technological interventions towards pollution control measures / instrumentation, etc. by:		
	a.	M/s Eco Ventures – Continuous Ambient Air Quality Micro-monitoring station (AirSense).	
	b.	NIMS – the Organic Hub – Small biogas plants for treatment of organic waste.	
	c.	Steam House India Ltd., – Community boiler projects that supply steam through piped network.	
	d.	Eco Tech Engineers and Consultants – Eco-SBR technology STP.	
	e.	Platino Automotive Pvt. Ltd., - Retrofit Emission Control Devices for D.G. sets.	
	f.	National Odour Research and management Institute (NORMI) – Odour awareness, monitoring, legal implications and mitigations.	
	g.	Anodyne Water Engineering Co. Pvt. Ltd., - Air and Water treatment systems : technology, products and services.	
	h.	Ecosense Appliances Pvt. Ltd., - Various domestic / industrial level appliances for treatment of sanitary pads / egg-shells and dairy-wastes	
2.	Environment Audit of following units have been conducted by Environment Audit Team constituted by the Board**.**		
	a.	Casinos – All six casinos	
	b.	Goa Carbon Limited, St. Jose De Areal Industrial Estate	
	c.	Following units located in Cuncolim Industrial Estate	
a.	Malco Energy Limited	b.	Marpol Pvt. Ltd.,
c.	Trimurti Industries	d.	Global Ispat Limited
e.	Orange Fox Steel Pvt. Ltd	f.	Karthik Alloys Limited

g.	Sunrise Electromelt Limited	h.	Shree Balaji Rolling Pvt. Ltd.,	
i.	Shraddha Ispat Pvt. Ltd	j.	Quality Exports	
k.	Quality Foods	l.	Shirdi Steel Re-rollers Pvt. Ltd	
m.	Pioneer Alloys and Steel India Pvt. Ltd.,			
3.	CYCLATHON was organised on the occasion of World Bicycle Day - 3rd June, 2023 by Directorate of Health Services (DHS), Verna Industrial Association (VIA) and GSPCB .			
4.	World Environment Day, -WED 2023 was celebrated in the Board Office on the theme 'Beat Plastic Pollution' wherein Hon. Minister for Environment, Shri Nilesh Cabral was the Chief Guest, Prof. (Dr.) B. C. Choudhary, Advisor, Wildlife Trust of India was the Guest Speaker. On the occasion Manual on Sewage Treatment Technology was launched. In addition, Quiz competition and presentation on Best Industrial Initiatives in Environment management were organised			
5.	Stakeholder Consultation on Deposit Refund Scheme (DRS) and Launch of Digital Rupee of the GSPCB was held on 26th June 2023.			
6.	Conducted PLOGGING – awareness drive to understand the concept of ban on SUP and DRS initiatives : GSPCB along with YIMBY / Responsible Earth Foundation / EU-REI - at Colva Beach, South Goa – 11th August 2023 and at Miramar Beach, on 13th August 2023			
7.	Chairman, GSPCB attended as well as chaired a panel discussion during 18th Sustainability Summit held in Delhi on 22nd – 23rd August 2023			
8.	Continuation of Awareness drives on Ban on Single Use Plastic (SUP) in Educational Institutes through M/s Sensible Earth at Hirabai Talualikar High School, Sacordem			
9.	Interaction with stakeholders concerned with reference to usage of Common Hazardous Waste Treatment Facility at Pissurlem being operated by M/s Ponda Envirocare			
10	Conference on Post-Consumer Recyclates: Challenges & Opportunities, held on 7th September 2023 inaugurated at the hands of Hon'ble Minister for Environment – Mr. Nilesh Cabral in the presence of Chairman, GSPCB, Secretary, Environment – Mr. Arun Kumar Mishra, Former Member Secretary, CPCB – Dr. Prashant Gargava, Head, Sustainability & CST, M/s Godrej Industries Ltd., - Ms. Gayatri Divecha and M.S., GSPCB – Dr. Shamila Monteiro			
	Inauguration of Online Environmental Data Monitoring Centre (OEDMC)- Inauguration at the hands of Hon. Minister in presence of CPCB, GSPCB and DoE & CC officials - Display of online Ambient air-quality / effluent water-quality as transmitted by industries-concerned			
	Inauguration of Technology Information Centre (TIC) Inauguration at the hands of Hon'ble Minister in presence of CPCB, GSPCB, DoE & CC and GSBB officials			
11.	The Board organised Annual Shree Satyanarayan Puja and Thanks Giving Mass on 11th September 2023			

III. Thereafter, the following Agenda items were taken up for discussion and deliberation.

Agenda item no. 1

Confirmation of the minutes of the 155th meeting of the Goa State Pollution Control Board held on 12/05/2023

The Member Secretary informed that the minutes of the 155th meeting of the Board held on 12/05/2023 were forwarded to all the members vide this office letter no. 4/155/23-PCB/Admn./4714 dated 26/05/2023. As no comments were received from any members, the minutes of the meeting

were confirmed, so as to enter the same in the Minutes Book.

Agenda item no. 02

Follow up action on the decision taken at the 155th meeting of the Board held on 12th May, 2023

Agenda item no. 4 – Members noted that the Draft Manual for Notification with respect to establishing conditions for use of treated water for Effluent Treatment Plants / Sewerage Treatment Plants has been forwarded to the Dept. of Environment and Climate Change for notification in the Gazette.

Agenda item no. 06 – Members noted that Consent to Operate (new) under the Water Act, Air Act and the Hazardous and other Waste Rules) for the operation of the Sewage treatment Plant of 5.6 MLD capacity at Baga, Calangute – Goa. has been issued and further directing PWD to submit time line for connecting to the sewer lines to the STP

Agenda item no. 08 – The members persused the agenda with respect to Sewage treatment plant of Public Works Department for 2 MLD at Patto, Panjim-Goa, with respect to the inspection conducted by the Board members, officials of the Board and PWD and its recommendations. The members noted that the unit was issued Consent to Operate for six months and the recommendations of the Board members were also incorporated in the Consent issued.

Agenda item no. 09 – Members noted the provisional Consent to Operate for six months for trial run till online monitoring system is installed has been granted to Public Works Department, 15.00 MLD Sewage treatment plant (STP) located at Queula, Ponda – Goa.

Agenda item no. 10 – Member Secretary informed the members that General Administration Dept. has requested for copies pertaining to letter of the General Admn. Dept. dated 20/11/1996 as the same is not traceable in their records, with respect to premises at 243, Patto Panaji Goa

Agenda item no. 11 – Members noted that e tender is being floated for appointment of H.R Consultant for Implementation of Performance Appraisal and Review System & its roll-out for the staff of Goa State Pollution Control Board.

Agenda item no. 12 – Members noted that the Revised Budget Estimate for the year 2022-2023 and Budget Estimate for the year 2023-2024 has been sent to the Department of Environment and Climate Change.

Agenda item no. 03

Application for Consent to Operate (expansion) under the Air Act and the Water Act of M/s. Deccan Fine Chemicals (India) Private Limited located at Survey no.28/1-A, Santa Monica Works, Corlim, Tiswadi-Goa.

Member Secretary informed the members that the Board was in receipt of application from M/s. Deccan Fine Chemicals (India) Private Limited, for Consent to Operate (expansion) under the Air Act and the Water Act for increase in products Picoxystrobin or 2, 6, Difluroaniline-500 TPA, DCF-TFAP-50 TPA, 560I- 100 TPA and MOAT- 600 TPA and increase in remaining production capacity of 1250 MPA. (Phase II of expansion). She further informed the members that there will additional water requirement of 966 Kld and waste water generation of 1000 Kld which will be treated in the ETP which will be increased to approx. 5000 Kld., however, there would be increase in hazardous waste generation which would be treated in CHWTF / sent for incineration for co-processing in cement industries.

Member Secretary further informed that the application for Consent to Operate (expansion) was placed before 23rd meeting of Technical Advisory Committee (TAC) held on 21/08/2023 and subsequently the Board issued Consent. She further informed that the same is placed before the Board for according ex post facto approval.

Members noted and accorded ex post facto approval.

Agenda item no. 04

Appointment of Junior Research Fellow (on contract) in the Legal Section.

Member Secretary informed the members that the Board has to compile data pertaining to show cause notices issued, coordinating the information so received with the Scientific and Technical section with respect to the Court matters, for which one Junior Research Fellow (Legal) on contract is required to be appointed to assist the Legal section. Members deliberated on this issue and suggested that a Scheme be framed for appointment on contract basis (namely Junior Research Fellows), for a maximum period of one year on a consolidated pay.

After deliberations it was agreed for appointment of a Junior Research Fellow (Legal) on contract with the following criteria, by issuing advertisement in the local newspaper.

Name of the Post	Junior Research Fellow (Legal) (on contract)
No. of posts	One no.
Interview:	Date to be fixed
Age:	Not exceeding 30 years as on date of submission of application.
Duration of contract:	One year
Consolidated pay	Rs. 20,000/- per month
Qualifications	Essential: (a) Bachelors Degree in Law from a recognized University (b) Knowledge of Konkani (c) Knowledge of Computers Desirable: (a) Knowledge of Marathi.

Agenda item no. 05

Application for Consent to Operate under the Air Act, Water Act & Hazardous Waste Authorization for Operation of Sewage Treatment Plant of 5.4 MLD capacity at P.T. Sheet No. 128 & 129 of Mapusa, Bardez Goa.

Member Secretary informed the members that the Board was in receipt of an application for Consent to Operate under the Air Act, Water Act & Hazardous Waste Authorization for Operation of Sewage Treatment Plant of 5.4 MLD.

Member Secretary informed the members that officials of Public Works Department. WD. XXVII, Mapusa were called for making Project/Proposal specific presentation before Technical Advisory Committee (TAC). Subsequent to the presentation / discussion / deliberations, TAC has recommended that the proponent needs to (i) install Filtration unit after chlorination to maintain the residual chlorine before release in the river; (ii) submit load calculations of sewage, (iii) provide port hole to the 380 KVA capacity D.G set and (iv) maintain cycle period to 5 hrs in SBR. TAC recommended the proposal for initial period of 6 months with compliance to above observation in a time bound manner.

Member Secretary further informed the members that as per recommendation of the TAC, Consent to Operate was granted to the Project Proponent on 08/08/2023 for initial period of 6 months subject to compliance with all the mentioned conditions for trial operations.

Members noted and accorded ex-post facto approval.

Agenda item no. 06

Application for Consent to Establish under the Water Act and Air Act for setting up of the Sewage Treatment Plant of 20 MLD capacity located at Survey No. 69/1,69/2 & 69/4 , opp. Ticlo petrol pump, Off. NH 66, Porvorim, Bardez Goa.

Member Secretary informed the members that the Board was in receipt of an application for Consent to Establish under the Air Act, Water Act for setting up of the Sewage Treatment Plant of 20 MLD capacity at Porvorim, Bardez Goa

She further informed that the application was discussed at the TAC meeting and recommended that the proponent needs to (i) install Filtration unit after chlorination to maintain the residual chlorine before release in the nullah which ultimately drains into the Mapusa river; (ii) treated water to be supplied to farmers for irrigating the agricultural land within proximity of the STP as area around the STP are Khazan lands which are used for farming. TAC recommended the proposal with compliance to above observation in a time bound manner, which could be verified by the Board prior to considering Consent to Operate application.

Members approved for grant of Consent incorporating the recommendations of the TAC.

Agenda item no. 07

Draft Guidelines for Scrap yards in the State of Goa

Member Secretary further informed that the Board does not issue any NOC / Authorization to Scrap yards /Scrap Recyclers in the State and that Goa Waste Management Corporation is in process of formulating a Policy for scrap yards in the State of Goa for which the Board is required to formulate guidelines. Accordingly the Board has prepared draft guidelines for Scrap yards which are applicable to scrap yards / scrap recyclers collecting and handling only solid waste as defined in the Solid Waste Management Rules, 2016, as amended. It was further informed to the members that in these draft guidelines scrap yards cannot handle waste defined under the Hazardous and Other Waste (Management & Trans boundary Movement) Rules, 2016 as amended, E-waste Management Rules, 2016 as amended, Battery Waste (Management and Handling) Rules, 2001 as amended Construction and Debris (Management & Handling) Rules, 2016 as amended thereafter and Biomedical Waste Management Rules, 2016 as amended.

Member Secretary placed the following for perusal and approval of the members.

Procedure and guidelines for registering waste collector / MRF facility authorized by the Goa State Pollution Control Board.

Draft guidelines for scrap yards / Scrap recyclers in the State of Goa, prepared by the Goa State Pollution Control Board.

Members approved the above guidelines as prepared by the Board for notifying and implementation.

I. Application Procedure for Waste Collectors:

In order to streamline the process of Registration and Licensing for Waste Collectors it is proposed to formulate guidelines. Following entities are required to register with the Board. These guidelines will be applicable to all agencies/ individual collecting only biodegradable & non-

biodegradable waste as categorized in Solid Waste Management Rules 2016, as amended thereafter, from Local Bodies & Bulk Generators and to all agencies/individual collecting only non- biodegradable waste as categorized in Solid Waste Management Rules 2016, as amended thereafter, from Industries.

These points are not applicable for Waste Collectors that handle other Waste as specified under the Biomedical Rules 2016 as amended thereafter; Hazardous and other waste (Management and Transboundary movement) Rules, 2016 as amended thereafter, E waste management rules 2016, as amended thereafter, and Battery Management rules 2022 as amended thereafter and C & D Waste Management Rules 2016, as amended thereafter.

1.	Registration as a Waste Collector:	
	a.	Collection of waste from Local Bodies
	b.	Collection of waste from Industries
	c.	Collection of Waste from units within the State and Disposal of Waste to Facility Outside the State
A.	Collection of waste from Local Bodies:	
	i.	Procedure for application:
	*	Apply online using Google Form: Visit the Goa State Pollution Control Board Website by using the link as follows: https://goaspcb.gov.in/archives/#tab-18296
	*	Select respective Taluka under Proforma for registration as a Waste Collectors
	*	Open and Fill Google Form for Waste Collectors
	ii.	Documents required:
	*	Land Ownership Documents
	*	NOC / Permission from Local Body
	*	Site Plan
	*	Detailed Plan of the Facility
	*	Disposal of Domestic waste water
	*	Details of waste collection/transportation/Disposal
	*	Details of Industry /unit from where the waste is collected/proposed to be collected with details of quantity and types of waste.
	*	Details of unit/Industry where waste is disposed/proposed to be disposed with details of type of waste and quantity of waste.
	iii.	Infrastructure/Siting:
	*	The land in question shall meet the siting guidelines of GSPCB and Town and Country Planning (T&CP)
	*	The area used for waste collections shall not be water logged and must be a completely dry area
	*	The area chosen for waste collection and storage must be fenced and have a concreted working area
	*	A proper access road shall be available up to the entrance of the yard to allow for a quick-fire tender movement in case of emergencies and fire audit to be carried out of scrap yard every 3 months through Department of Fire and Emergency Services.
	*	Land chosen for setting up MRF must have adequate buffer maintained from residential areas, hospitals, educational institutions, religious institutions, public offices and markets etc as prescribed by GSPCB & T&CP
	*	MRF to be setup as per GWMC template and guidelines in case Village Panchayat MRF is not being utilized

	*	Separate compartments to be provided for different types of waste within the MRF.		
	*	Separate area to be provided for baling machine		
	*	Separate area to be provided for baled waste.		
	*	Easy access shall be provided for handling of waste. In case of MRF is located Outside Industrial Area:		
		Sr.	**Area**	**Distance from residence/water body/institutions/hospitals**
		1.	< 100 sq. mts	50 mts.
		2.	100 sq. mts to 500 sq. mts.	100 mts.
		3.	500 sq. mts. to 1000 sq. mts.	200 mts.
		4.	Above 1000 sq. mts.	500 mts
	iv.	Validity:		
	*	Collection from Local Body utilizing Local body MRF: Validity will be for a period of 1 year– fees: Rs. 10,000/- for Dry waste collection and additional Rs. 10,000/- in case wet waste is collected.		
	*	Renewal: Renewal will be granted for a period of 1 Year for the same fees as specified above and will be done on yearly basis		
B.	Collection of waste from Industries:			
	i.	Procedure for application		
	*	Apply online using Google Form: Visit the Goa State Pollution Control Board Website by using the link as follows: https://goaspcb.gov.in/archives/#tab-18296		
	*	Select respective Taluka under Proforma for registration as a Waste Collectors		
	*	Google Form for Waste Collector		
	ii.	Documents required		
	*	Establishment Certificate		
	*	Trade license		
	*	Site Plan		
	*	Land ownership Document		
	*	Copy of Form 1 & 14/Form 4C		
	iii.	Infrastructure/Siting		
	*	The Land in question shall meet the siting guidelines of GSPCB and T&CP		
	*	The area used for waste collections shall not be water logged and must be a completely dry area		
	*	The area chosen for waste collection and storage must be fenced and have a concreted working area		
	*	A proper access road shall be available up to the entrance of the yard to allow for a quick-fire tender movement in case of emergencies and fire audit to be carried out of scrap yard every 3 months through Department of Fire and Emergency Services.		

	*	Land chosen for setting up MRF must have adequate buffer maintained from residential areas, hospitals, educational institutions, religious institutions, public offices and markets etc as prescribed by GSPCB & T&CP		
	*	MRF to be setup as per GWMC template and guidelines		
	*	Separate compartments to be provided for different types of waste within the MRF		
	*	Separate area to be provided for baling machine		
	*	Separate area to be provided for baled waste		
	*	Easy access shall be provided for handling of waste		
	*	In case of MRF located outside Industrial area:		
		Sr. No	**Area**	**Distance from residence/water body/institutions/hospitals**
		1.	< 100 sq. mts.	50 mts.
		2.	100 sq. mts to 500 sq. mts.	100 mts.
		3.	500 sq. mts. to 1000 sq. mts.	200 mts
		4.	Above 1000 sq. mts.	500 mts.
	iv.	Validity		
	*	Collection from Industry utilizing own MRF (Permanent): Validity will be for a period of 1 year – fees: Rs. 25,000/- for Dry waste collection only.		
	*	Renewal: Renewal will be granted for a period of 1 year for the same fees as specified above and will be done on yearly basis.		
C.	Collection of Waste within the State and Disposal of Waste to Facility outside the State			
	*	In case the waste collector is collecting waste from a unit and sending it for onward treatment/disposal into a facility located outside the State, then the Waste collector has to submit application on google form.		
	*	The same procedure to be followed as mentioned in Part B i.e., collection of waste from industries, However, infrastructure/ siting will not be applicable		
	*	The following details have to be provided instead:		
		Details of Collection & transportation, like vehicle registration number . etc		
		Letter from the Facility (Final Disposal Facility)		
		Respective SPCB Consent/Authorization/Permission		
	*	The Registration/Permission to be issued for transporting/Disposal to the specific Facility		
II.	NOC / Approval for:			
	A.	Setting up of MRF (Permanent)		
	B.	Operation of MRF (Permanent) by Local Body		

A.	Setting up of MRF (Permanent) by Local Body	
	*	The Village Panchayat is required to make an application to the Goa State Pollution Control Board
	*	Documents for Setting up MRF (Permanent)
		Land Ownership Documents (in case of Land lease, Lease must be at least 5 years and above)
		Site Plan
		Proposal
	*	Fees & Validity
		Fees for setting up MRF with a validity for 1 year will be Rs. 5,000/-
B.	Operation of MRF (Permanent) by Local Body	
	*	The Village Panchayat is required to make an application to the Goa State Pollution Control Board after setting up MRF (Permanent)
	*	Documents for Setting up MRF (Permanent)
	*	Land Ownership Documents (in case of Land lease, Lease must be at least 5 years and above)
	*	Site Plan
	*	Government Approval for MRF Structure for eg. Technical Clearance, TCP approval, etc
	*	Fees & Validity
		Fees for Operation of MRF with a Validity for 3 year will be Rs. 10,000/-
III.	Applicability of Consent/Authorization	
	a.	Consent: GSPCB will not issue Consent for MRF, However Consent will be applicable for processes involved such as Baling /Shredding/ Reprocessing/ Mechanical Compost, etc. Local Body/Waste Collector will be required to obtain Consent for processes.
	b.	Consent + Authorization: Local Body/Waste Collector will be required to obtained. Consent + Authorization for Facilities having a daily capacity higher than 5 TPD.

II. GUIDELINES FOR WASTE COLLECTORS / SCRAP YARDS

1.	The scrap yards should compulsorily meet all guidelines issued by the Goa State Pollution Control Board (GSPCB), Town and Country Planning (T&CP), Health Department, Local body, Goa Industrial Development Corporation (GIDC), Labour & Employment Department, Directorate of Fire and Emergency Services and Revenue authorities from time to time which may include but not restricted to the following:
2.	The land in question shall meet the siting guidelines of GSPCB & T&CP
3.	The scarp yards shall comply with prevalent regulation, guidelines and by-laws of Panchayat or Municipality
4.	The applicant shall own or obtain the land on lease and shall provide the land ownership document in the format. For I & XIV/Sale deed/lease deed/GIDC allotment letter/allotment letter/NOC from Local Authority.
5.	The area used for waste collections/scrap yard shall not be water logged and a completely dry area
6.	The scrap yards must be fenced and have a concreted working area.
7.	The waste collected should be segregated as per type of waste

8.	Recyclable waste is required to be sent for recycling to agencies registered with GSPCB.		
9.	Non-recyclable waste or RDF must be disposed only through GSPCB approved means such as waste to energy, co-processing at cement kilns or any other approved means and proper records maintained		
10.	Waste collection must be transported in designated vehicles with compartments to prevent mixing of different waste streams		
11.	The vehicle used for transportation must be covered and must also be equipped with a functioning leachate tank		
12.	Separate compartments to be provided for different types of waste within the MRF.		
13.	Separate area to be provided for baling machine		
14.	Separate area to be provided for baled waste.		
15.	Easy access shall be provided for handling of waste		
16.	A proper access road shall be available up to the entrance of the yard to allow for a quick-fire tender movement in case of emergencies and fire audit to be carried out of scrap yard every 3 months through Department of Fire and Emergency Services.		
17.	Portable water provision as well as toilets with soak pit and septic tank/ Sewer line for sewage shall be provided.		
18.	Sufficient fire safety measures shall be implemented to safeguard human life and environment.		
19.	All workers employed at the yard shall be registered with Labour & Employment Department and provided with requisite Personal Protective Equipment (PPE) to ensure their health and safety along with health card of workers is maintained. The labourers shall also be covered under Employees' State Insurance Corporation.		
20.	Details of category-wise incoming and outgoing waste along with vehicle number and driver details must be maintained and shared with regulating agencies GSPCB as and when required as per their Annual Return formats under Air and Water Act. Such Information may be also shared with local Police as and when required.		
21.	The scrap yard must have permanent Electricity and Water connection.		
22.	Category of waste to be stacked in proper racks separately and not beyond three meters height above ground level.		
23.	The recovered recyclable item should be sold/handed over only to the authorized recyclers/ dismantlers registered with State Pollution Control Boards		
24.	Also, adequate buffer must be maintained from residential areas, hospitals, educational institutions, religious institutions, public offices and markets etc as prescribed by GSPCB & TCP by the scrap yard for its material or which may cause potential danger to such installation or localities		
25.	Scrap yard registered owner will have to insure his scrap yard and its workers, besides for third party liability against accidents, injury, damage or loss of life		
26.	In case of scrap yards/waste collectors located outside industrial area:		
Sr.	Area	Distance from residence / water body / institutions / hospitals	
1.	< 100 sq. mtrs.	50 mtrs.	
2.	100 sq. mtrs. to 500 sq. mtrs.	100 mtrs.	
3.	500 sq. mtrs. to 1000 sq. mtrs.	200 mtrs.	
4.	Above 1000 sq. mtrs.	500 mtrs.	
27.	The waste collection /scrap yards shall not handle wet waste in the said area without prior permission of GSPCB.		

28.	The waste collector/ scrap yards cannot handle waste defined under the Hazardous And Other Waste (Management & Trans boundary Movement) Rules, 2016 as amended, E-waste Management Rules, 2016 as amended, Battery Waste (Management and Handling) Rules, 2001 as amended Construction and Debris (Management & Handling) Rules, 2016 as amended thereafter and Biomedical Waste Management Rules, 2016 as amended

Members approved the above guidelines as prepared by the Board.

Agenda item no. 08

Installation and connectivity to GSPCB Monitoring Systems

Member Secretary informed the members that the Boards mandate is to plan a comprehensive programme for the prevention, control of abatement of pollution of streams, wells and air pollution. She further informed that State Pollution Control Boards are also empowered to stipulate standards for discharge of environmental pollutants for various categories of industries and common effluent treatment plants (CETPs), Common Hazardous Waste and Bio-medical waste incinerators even more stringent than those notified by the Central Govt., under the Environment (Protection) Act, 1986 and Rules framed there under. She further informed that industries in various States are discharging environmental pollutants directly or indirectly into the ambient air and water which pose constant threat and cause adverse effect on water and air quality, for which State Pollution Control Boards / Pollution Control Committees are required to ensure installation and regular operation of the requisite pollution control facilities in the polluting industries for complying the prescribed standards by installing on-line effluent and emission monitoring devices.

Member Secretary further informed the members that inorder to strengthen the monitoring mechanism for effective compliance through self regulatory mechanism, the following directions were issued to all Industries / establishments / hotels having ETP of 50 Kld and above capacity and Sewage Treatment Plants of 100 Kld and above capacity and Steel Plants in Red and Orange Category to:

a.	To install Online Continuous Stack Emission Monitoring System (CSEMS) and Continuous Ambient Monitoring Station in Steel plants in Red and Orange category for the parameters (industry / sector specific parameters) mentioned in the Consent to Operate / Authorization not latter by 31st March, 2024 in consultation with the Board.
b.	To install online effluent quality monitoring system at the outlet of effluent / sewage treatment plants of industries / establishments / hotels having ETPs of 50 Kld and above capacity, STPs of 100 Kld and above capacity for the measure of the parameters (industry / sector specific parameter) like flow, pH, COD, BOD, TSS and for other consented parameters as per the guidelines provided not later than 31st March, 2024 in consultation with the Board.
c.	To connect and upload the online emission and effluent monitoring data at SPCBs / PCCs and CPCB server in a time bound manner but not later than 31st March, 2024 in consultation with the Board.
d.	To ensure regular maintenance and operation of the online system with temper proof mechanism having facilities for online calibration.

Members noted and accorded ex post facto approval.

Agenda item no. 09

Mobile / Data usage reimbursement to the staff of the Board

Member Secretary inform the members that the Board had earlier taken a decision to grant allowance towards mobile / data usage to the staff of the Board. It is now proposed to reimburse the

amount after amending the Office Order. Members agreed for the same.

Member Secretary further informed that since staff of the Board are required to be on field, network connectivity is required to be provided to them, for which dongle is provided with reimbursement of yearly plan of the Jio Service Provider for data usage.

Members approved and accorded ex post facto approval.

Agenda item no. 10
Criteria for imposing Bank Guarantee

Member Secretary informed the members that he Board imposes Bank Guarantee based on the cost of the equipment's for pollution control devices or on case-to-case basis as approved by Member Secretary/Chairman. There were no guidelines of Board to impose Bank Guarantee and as such criteria as adopted by Telagana Pollution Control Board was followed so as to have uniformity in imposing Bank Guarantee (BG) .

Member Secretary placed the guidelines for imposing of Bank Guarantees as prepared by the Board for perusal.

Member Secretary informed the members that the Board has prepared the following guidelines which are placed before the members for perusal and approval:

1.	The Bank Guarantees to be imposed shall be based on the investment with minimum amount and maximum amount instead of imposing on investment percentage or equipment cost.
2.	The new slabs for the BG is fixed with minimum and maximum amount to be levied for Red and Orange category industries (The orange category slab amount will be 50% of the Red category slab amounts).
3.	In case of Green category industries, the imposition of the BG for the Green Category Industries will be levied on case to case basis not exceeding the minimum amount of B.G under Orange category.
4.	The criteria is applicable for all the Industries and Common Facilities. In respect of Health Care Establishments, the amount of Bank Guarantee levied may be Rs. 2 lakhs for 50-100 beds and Rs. 10 lakhs for 100 beds & above.
5.	Bank Guarantee Amount : The amount of BG to be imposed on the non-complying industries shall be levied as per the following table:

RED category industries:

investment in rs. (crores)	minimum amount of bg to be levied (rs. in lakhs)	maximum amount of bg to be levied (rs. in lakhs)
up to 5	1	2
5-10	2	4
10-50	4	8
50-100	8	16
100-250	16	32
250-500	32	64
500 and above	64	128

orange category industries

investment in rs. (crores)	minimum amount of bg to be levied (rs. in lakhs)	maximum amount of bg to be levied (rs. in lakhs)
up to 5	0.5	1
5-10	1	2
10-50	2	4
50-100	4	8
100-250	8	16
250-500	16	32
500 and above	32	64

Green category industries : imposition of the bank guarantees may not be required for green category industries as they are mostly non-polluting in nature. however, the maximum amount of bank guarantee shall not exceed the minimum slab amount of bank guarantee under orange category, on case-to-case basis only, which will be decided by the member secretary, senior environmental engineer and taluka assistant environmental engineer.

RESIDENTIAL COMPLEXES

Investment in Rs. (crores)	minimum amount of bg to be levied (Rs. in lakhs)	maximum amount of bg to be levied (Rs. in lakhs)
up to 5	5	10
5-10	10	15
10-50	15	20
50-100	20	25
100-250	25	30
250-500	30	35
500 and above	35	40

GENERAL:

1.	Bank Guarantees shall be levied on defaulting industries with reference to specific Consent to Operate, Hazardous Waste Authorization and conditions like illegal disposal of effluents outside / within the industries premises, illegal transportation of effluents / hazardous waste for disposal in unauthorized places, not meeting the stack / ambient air quality standards and effluent disposal standards, manufacturing of un-consented products & exceeding the consented products, shifting of units, etc .
2.	For new Red category large Industries during Consent to Establish to ensure compliance to Consent conditions with validity period of 5 years.
3.	For residential complexes during Consent to Establish to submit Bank Guarantee with validity period of 10 years

4.	The amounts of Bank Guarantee to be levied shall depend on the degree of non-compliance e.g : not having effluent treatment plant and air pollution control equipment, discharges / emissions are far in excess of the standards, non functioning of the ETP or air pollution control devices, operation of the industry without CTE / CTO, repeated violations inspite of giving adequate opportunity to rectify the lapses, stock of huge quantity of hazardous waste without sending to TSDF / cement plants etc., may be considered as highest degree of non-compliance. Non installation of monitoring equipments like Continuous Emission Monitoring Systems (CEMS), Continuous Ambient Air Quality Monitoring (CAAQM) stations. VOC – Online analyzers, failure to connect to APPCB website, not providing closed sheds / enclosures to fine raw materials / products yards, etc., may be considered as minimum degree of non-compliance. Other non compliances like causing fugitive emissions by which surrounding environment is affected, odour problems etc., may be considered under intermediate level of non-compliance.
5.	Bank Guarantees shall be levied on industries / CETP's / TSDF's/ other facilities for ensuring the technological / other up-gradation of air pollution control equipments, effluent treatment plants and installation of facilities for handling of effluents / Hazardous Waste (Storage & Handling) within the specified time bound program / schedule.
6.	Bank Guarantees shall also be levied on habitual violating Health Care Establishments (HCEs) and construction projects on specific conditions with regard to segregation, collection, transportation, disposal, construction and commissioning of STPs/ ETPs, noise pollution prevention measures, etc.
7.	For any other specific purposes specified by the State Government / Central Government / CPCB / Judicial Bodies i.e. Hon. Appellate Authority, Hon. Courts, National Green Tribunal, SHRC, NHRC, etc.
8.	The validity period of Bank Guarantee in general shall be one year for defaulting industries and minimum 10 years for new industries in Red Category Industries. Any exemption or relaxation of Bank Guarantee in specific cases and release of the Bank Guarantee will be decided by the Member Secretary / Chairman on case-to-case basis.

Members deliberated on the fee structure and the conditions for imposing the Bank Guarantee and approved the above guidelines as prepared by the Board same for implementation.

Agenda item no. 11

Proposed 2nd International Environment and Sustainability Summit

Member Secretary informed the members that the Board is proposing to hold the 2nd International Environment and Sustainability Summit from 6th to 8th February, 2024 at Dr. Shyama Prasad Mukerjee Indoor Stadium, Taleigao, as the 1st Summit drew a good response.

Member Secretary further informed the members that the expenditure incurred last year was Rs. 2.9 Crores, and this year the expenditure may be slightly more.

She further informed the members that the International Summit shall be a platform for industries to showcase their technology in environment / pollution control measures /good management practices of the industries in the field of environment protection, sustainable products etc. The Summit will be a great opportunity for B to B interaction and B to C and to students to interact with the industries, Scientists and Experts. International and National experts in the field of Environment shall be invited to deliver talks for the International Conference, for which the Board will have to make all arrangements for stay / food, travel etc. for which arrangements will be done. All Speakers shall be treated as eminent personalities for TA/DA claim or upto Rs. 12,000/- per head.

Members deliberated and approved for organizing the 2nd International Environment and

Sustainability Summit during the 1st week of February, 2024. The members also approved for an approximate expenditure of Rs. 3.5 Crores towards conduct of the Summit

IV. With the permission of the Chair, the following Table items were taken for discussion.

Table Item no. 01

Request from M/s. South West Port Limited for amendment in the Consent to Operate

Member Secretary informed the members that the Board was in receipt of a request from M/s. South West Port Limited for partial amendment of the monthly Consent to Operate limits from Berth 5A & 6A, Mormugao Harbour, for adjustment of leverage to finish the shipment as follows:

1. Handling of Coaking Coal/Coke (Import) of 5.5 MMTPA, however 0.4 MMT per month from February to May with a leverage 20% to finish the shipment. 1.95 MMT to be handled during the month of June to September with leverage 20% to finish the shipment and 0.485 MMT per month to be handled equally during the months of January to October to January with a leverage 20% to finish the shipment.

2. Limestone (Import) of 1 MMT/Annum. 3. Steel Product (Export) of 2 MMT/Annum

She further informed that the application was placed before Technical Advisory Committee which recommended for grant of Amendment to the Consent to Operate, based on which amendment was issued.

Members noted and accorded ex post facto approval.

Table Item no. 02

Request from M/s Adani Mormugao Port Terminal Private Limited (AMPTPL) for distribution of cargo handling.

Member Secretary informed the members that the Board is in receipt of a request from M/s Adani Mormugao Port Terminal Private Limited (AMPTPL) for handling of cargo with quarterly distribution of volumes within the annual permitted Consent to Operate limits with increasing leverage for adjustment of leverage to finish the shipment which is as follows:

a. Handling of coaking coal/coke (Import), Handling of coal from ship to barge and handling of coal from ship to berth storage yard using material handling system and loading of storage cargo into barge using Material Handling System (MHS) of 5.2 MMTPA.

b. 0.38 MMT per month from February to May with leverage of 20% to finish shipment.

c. Total quantity to be handled during February to May will be restricted to 1.52 MMT.

d. 1.80 MMT to be handled during the month of June to September.

e. 0.47MMT per month to be handled equally during the month of October to January with a leverage 20% to finish the shipment.

Member Secretary further informed the members that the application for request for partial amendment of the monthly Consent to Operate limits was placed before Technical Advisory Committee and the Committee had recommended for grant of Amendment to the Consent to Operate

Members deliberate and approved for amendment in the Consent to Operate.

Table item no. 03
Environmental Guidelines for Stone Crushing Units

Member Secretary informed the members that the Board is in receipt of a letter from the Central Pollution Control Board with regard to Environmental Guidelines for stone crushing units as formulated by the Central Pollution Control Board for implementation by the States. She further informed the members that the Board shall adopt the guidelines as received by the Board.

Members perused an approved the Environmental guidelines for stone crushing units as prepared by Central Pollution Control Board for implementation.

Table item no. 04
Grant of one-time authorization under the Bio-medical Waste Management Rules, 2016 to non bedded health care facilities

Member Secretary informed the members that the Board issues authorization under the Bio-medical Waste Management Rules, 2016 to bedded and non bedded health care facilities, for bedded health care facilities, the validity of authorization is synchronized with the validity of the Consent to Operate issued under the Air Act and Water Act, whereas for non bedded facility authorizations are issued under the Rules with a maximum validity period of 10 years as per the Notification of the Govt. dated 02/06/2022.

Member Secretary further informed the members that the Board is in receipt of representation requesting for exemption in the authorization fees for non bedded facilities.

The Members after deliberations decided to charge a one time fee for non bedded health care facilities as authorization fees amounting to Rs. 15,000/-, subject to there is no change in name of the Occupier, address and waste quantities. It was further decided that non bedded health care facilities requiring authorization for a lesser period shall pay the corresponding fees for the required period amounting to Rs. 1000/- per annum. It was also decided that healthcare facilities be inspected by the Board officials during the process of grant of authorization or during regular monitoring.

Members also decided that in case of non compliance of the Rules, the facilities be penalized as per the guidelines issued by Central Pollution Control Board for environmental compensation..

V. Chairman informed the members that the staff of the Board dealing with the subject matter of handling of the municipal solid waste are being deputed to Indore, Madhya Pradesh to acquaint themselves with the functioning of the system with reference to the door to door collection, segregation of waste. He informed that the said visit is scheduled from 9th to 13th October, 2023. He further informed the members that those desiring to visit Indore may inform the Board office accordingly. The visit is being organised by the Board in collaboration with GIZ.

The meeting ended with thanks to the Chair.

MINUTES OF THE 157TH MEETING OF THE GOA STATE POLLUTION CONTROL BOARD HELD ON 9TH JANUARY, 2024 AT 3.00 PM, IN THE CONFERENCE HALL OF THE BOARD

I. The 157th meeting of the Goa State Pollution Control Board was held on 9th January, 2024 at 3.00 pm in the Conference hall of the Board.

The following members attended the meeting:

1.	Mr. Mahesh K. Patil, Chairman
2.	Chief Inspector of Factories and Boilers, was represented by Shri. Pandurang Malik
3.	Chief Engineer, Water Resource Department was represented by Smt. Sushma S. Shirodkar, Assistant Surveyor
4.	Shri. Levinson J. Martins, Managing Director, Goa Waste Management Corporation
5.	Shri Shubham Chodankar, Councillor, Corporation of the City of Panaji
6.	Shri Ashirwad T. Khorjuvenkar, Councillor, Mapusa Municipal Council,
7.	Shri Pradip K. Naik, Councillor, Curchorem – Cacora Municipal Council,.
8.	Shri. Srinivas Dempo, President, Goa Chamber of Commerce & Industries
9.	Shri Nilesh Shah, President, Travel and Tourism Association of Goa
10.	Shri. Anirudh Agrawal, Chairperson, Confederation of Indian Industries
11.	Shri. Sanjay Naik, Panch Member, Village Panchayat Sanvordem
12.	Dr. Nutan D. Bicholkar, Councillor, Mapusa Municipal Council
13.	Dr. Shamila Monteiro, Member Secretary

Mrs. Jyoti Sardessai, Dte. of Food and Drugs Administration and Shri. Harish Adconkar, Managing Director, Goa State Infrastructure Development expressed their inability to attend the meeting. Leave of absence was granted.

II. At the outset the Member Secretary welcomed the Chairman and Members for the 157th meeting of the Board. With the permission of the Chair, she instructed Dr. Mohan Girap, Scientist 'C' to make a presentation on the activities carried out by the Board during the last three months:-

1.	Environment Audit by an Environment Audit Team constituted by the Board. - updates	
	a.	Majority of the units located in Cuncolim Industrial Estate completed
	b.	Selective Major units in Pilerne Industrial Estate is completed
	c.	Few units located in Kundaim Industrial Estate have been completed
	d.	Major units in Verna Industrial Estate has been completed.
	Continuation of Awareness drives on Ban on Single Use Plastic (SUP) in Educational Institutes through M/s Sensible Earth	
2.	Swachhata Hi Seva campaign was organized on 2nd October 2023 - In and around Panaji and in and around Verna Industrial Estate	
3.	Chairman was invited by BITS Pilani, Goa campus, Sancoale for a Panel discussion on "Start-up Initiatives	
4.	Chairman had interaction with GRI officials – Ms. Aditi Haldar & others as well as to attend South Asia Network Meet at New Delhi	
5.	Officers of the Board (M.S., and Asst. Env. Engr.,) visited Uttarakhand to understand the operational mechanism of Deposit Refund Scheme (DRS) : effective collection and disposal system	
6.	Hands-on training on E-office software (*to replace existing FLM-based system*) to Board officials by DoIT, Goa	
7.	Blood Donation Camp was conducted in association with the Asilo Hospital, Mapusa	
8.	Officers of the Board visited Sonmarg (Jammu and Kasmir) for 10th Greentech CSR India Summit and Awards– 2023 organised by the GreenTech Foundation	

9.	Officials of Central Road Research Institute (CRRI), New Delhi, visited the Board in respect to Noise Mapping Study to be conducted for the State of Goa	
10.	National Conference to showcase State-of-the-Art Infrastructure Facilities and initiatives in Solid and Sewage Waste Management by Goa Waste Management Corpaotion held from (*6th – 8th December 2023*) attended by Hon. Chief Minister, Minister for Science and Technology and other dignitaries.	
11.	Officials of GSPCB visited Indore along with representatives from Local Authorities (Municipal Councils / Panchayats) and Mineral Foundation of Goa (MFG) from 13th – 16th December 2024.	
12.	Workshop on Noise Mapping exercise in association with Central Road Research Institute (CRRI), New Delhi on 21st December 2023 was held in the Board Auditorium	
13.	a.	Online Continuous Noise-level monitoring (real-time) instruments have been procured through M/s Welan Technology Pvt. Ltd.,(*Make – SvaNET, Poland*).
	b.	Technology Information Centre (TIC) and Online Environmental data Monitoring Centre (OEDMC) have been established at the Board

III. Thereafter, the following Agenda items were taken up for discussion and deliberation.

Agenda item no. 1

Confirmation of the minutes of the 156th meeting of the Goa State Pollution Control Board held on 12/09/2023.

The Member Secretary informed the members that the minutes of the 156th meeting of the Board held on 12/09/2023 were forwarded to all the members vide this office letter no. 4/156/23-PCB/ Admn./14075 dated 29/09/2023. As no comments were received from any members, the minutes of the meeting were confirmed, so as to enter the same in the Minutes Book.

Agenda item no. 02

Follow up action on the decision taken at the 156th d meeting of the Board held on 12/09/2023.

Agenda item no. 04 – Members noted that the selection process for the post of JRF (Legal) is in process.

Agenda item no. 07 - Members noted that the draft guidelines for Scrap yards in the State of Goa, have been forwarded to the State Government for notification.

Agenda item no. 09 - Members noted that Office order is issued with respect to Mobile / Data usage reimbursement to the staff of the Board

Agenda item no. 10 – Members noted that the criteria for imposing Bank Guarantee has been implemented by the Board.

Agenda item no. 11 – Members noted the preparations being made by the Board in respect to the 2nd International Environmental and Sustainability Summit scheduled from 8th to 10th February, 2024.

Table Item no. 02 – Members noted that Consent to Operate with partial amendment to the limits for handling of coal / coke has been issued to M/s Adani Mormugao Port Terminal Private Limited (AMPTPL)

Table item no. 03 – Members noted that the Environmental guidelines for stone crushing

units as prepared by Central Pollution Control Board are being implemented by the Board.

Table item no. 04 - Members noted that one-time authorization under the Bio-medical Waste Management Rules, 2016 to non bedded health care facilities is being implemented by the Board.

V. Members noted the visit undertaken to Indore, Madhya Pradesh by Board members and officials of the Board to study the handling of the municipal solid waste door to door collection, segregation of waste.

Agenda item no. 03

Maintaining of Buffer Zone for establishing a Theme park/ garden in Goa from the existing Garbage treatment plant in Survey No. 310/1-A, Pernem- Goa

Member Secretary informed the members that M/s Bramha Corp Theme Park LLP is granted in principle approval by Goa Investment Promotion and Facilitation Board (GIPB) to establish a theme park/ garden in Survey No. 310/1, admeasuring 10,524 sq. mtrs. 311/0 admeasuring 86,700 sq. mtrs. in Pernem village, Pernem Taluka , North Goa.

She further informed the members that the said area is notified by Town and Country Planning Department in the Regional Plan, Goa, 2021 as Buffer Zone and is adjoining a 5 TPD Waste Management Plant of Pernem Municipal Council. She further informed that as per the Regulatory Framework under 'Guidelines on the provision of Buffer Zone around Waste Processing and Disposal Facilities' issued by Central Pollution Control Board (March 2019) quotes provisions related to Buffer Zone specified in the said Waste Management Rules, 2016 as under ;

Schedule I (A) (ix) - *A buffer zone of no development shall be maintained around solid waste processing and disposal facility, exceeding five tonnes per day of installed capacity. This will be maintained within the total area of the solid waste processing and disposal facility. The buffer zone shall be prescribed on case to case basis by the local body in consultation with concerned State Pollution Control Board.*

Separation Distances for Solid Waste Processing and Disposal Facilities under 'Guidelines on the provision of Buffer Zone around Waste Processing and Disposal Facilities' states as under:

Ideally, a distance of 500 meter from the boundary of the Solid Waste Processing and Disposal Facility (sanitary landfill) should be maintained. However, on case to case basis a distance of minimum 200 meter from the Solid Waste Processing and Disposal Facility (sanitary landfill) can be considered subject to the condition that such facility meets the stipulated standards prescribed by State Pollution Control Board with respect to ambient air as well as for stack emissions.

Member Secretary further informed that Pernem Municipal Council, vide letter dated 19/10/2023 has conveyed to the Board that the Council has passed a Resolution 'To restrict the buffer zone to 100 meters radius from the existing garbage treatment plant in survey No. 310/1-A so that the plant remains operational without causing any nuisance to the further development in the jurisdiction'.

Members perused and approved to restrict the buffer zone to 200 metres radius from the existing garbage treatment plant in survey no. 310/1-A.

Agenda item no. 04

Revision for fees for Authorizations**.**

Member Secretary informed the members that the Board receives application from the industrial unit registered with the Board requesting to issue quarterly certificates for compliance for imports and compliance certificates, at present no fees are being levied in the Rules. It was now proposed to levy a fee of Rs. 5000/- per certificate.

Member Secretary informed the members that at the 122nd Board meeting held on 28th November, 2016, a fee Rs. 10000/- for processing Authorization under Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016, as considerable time is passed of six years it is proposed to revise the authorization fees for the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 from the present fee of Rs. 10000/- to Rs. 15000/-.

The members perused and approved as follows: :

Sr.	Item	Fee chargeable
1.	Authorization under Hazardous and other Wastes (Management and Trans-boundary Movement) Rules 2016	Rs. 15000/-
2.	Authorisations under E waste management rules 2016	Rs. 15000/-
3.	Authorisation under the Solid waste management rule 2016	Rs. 15000/-
4.	Registration under Plastic Waste management rule	Fresh registration with validity of one year Rs. 5000/- and subsequent renewal application Rs. 15000/- for three years

Agenda item no. 05

Aerial Survey of North Goa Coastal stretch as per National Geo-spatial Policy, 2022

Member Secretary informed the members that the Board proposes to conduct Aerial Survey & Mapping of a Coastal stretch in North Goa District, to demarcate hotels, residential building, houses, beach shacks, recreation parks, open plots and other tourism recreation related activities on the beaches in North Goa. The aerial survey is necessary as per the National Geo spatial Policy, 2022 and is widely accepted information.

Members perused the agenda notes and approved for conducting Aerial survey and mapping of a coastal stretch in North Goa District.

Agenda item no. 06

Online Continuous Ambient Air quality monitoring (AAQMS) along the mining routes in Goa.

Member Secretary informed the members the Board receives applications requesting to conduct Ambient Air Quality Monitoring (AAQM) to ascertain the ambient air quality during the transportation of iron ore along the transportation routes. She further informed that the conventional method of monitoring will not serve the purpose, as such it was proposed to install Continuous Online Ambient Air Quality Monitoring systems along the mining transportation route to measure parameters like PM10, PM2.5, NO2 and SO2 as per US-EPA/ MCERTS approved system, as these systems will improve the effectiveness of monitoring along the transportation routes. Member Secretary further informed that a total of 23 locations have been identified for North Goa and South Goa based on the existing routes.

After deliberations the members approved for installation of Continuous Online Ambient Air Quality Monitoring systems as 23 locations as identified by the Board.

Agenda item no. 07

Setting up of two Online Continuous Ambient Air quality monitoring (CAAQMS).

Member Secretary informed the members that presently the Board conducts ambient air quality monitoring at Cuncolim Industrial Estate, Cuncolim and Panaji city through MoEF&CC approved Environmental Laboratory, twice a week by conventional method.

She further informed that these stations are now proposed to be replaced by CAAQMS at Cuncolim Industrial Estate and Panaji City as per NAAQS Standard, 2009. The parameters which will be measured are PM10, PM2.5, NO2 & SO2 on daily basis, AQI will be calculated and Meteorological parameters ie. Wind speed, Wind directions, Relative Humidity and Solar radiation will also be available through this system.

Members noted and approved for replacing the present stations with Online Continuous Ambient Air quality monitoring Stations.

Agenda item no. 08

Standards for Sewage Treatment Plants for discharge of water

Member Secretary informed the members that the Board at its 150th Board meeting held on 30th December, 2021 had approved Discharge standards for Sewage Treatment Plants as defined under section 3 in the Environment (Protection) Rules, 1986.

She further informed that the Technical Advisory Committee (TAC) at its 25th meeting held on 30th October 2023, had recommended that the treated parameters should be as per National Green Tribunal directions and be made applicable to all STP's, however the Board during 150th meeting held on dated 30th December 2021, had approved discharge treated effluent standard for STP upto 150 KLD. It was also informed that TAC at its 25th TAC recommended that the Board should re-consider the decision with regards to the STP discharged standards to units less than 150 KLD STP, since the Board is getting complaints regarding water bodies getting polluted and discharge from the STPs and non- operational of STPs.

Member Secretary proposed to the members that based on the Order of the National Green Tribunal in the matter of O.A 1069/2018 and recommendations of the TAC, the Board should have uniform treated water discharge standards for all the Sewage Treatment Plants irrespective of the capacity of STP. Members deliberated and approved the following standards.

Parameters	Discharge on land for irrigation, Inland surface water	
pH	Between	5.5 & 9.0
Total Suspended Solids	Not to exceed	Not more than 20
BOD, 3 days, 27^{o} C	Not to exceed	10 mg/l
COD	Not to exceed	50 mg/l
Phosphorus Total (Discharge in lakes/water bodies)	Not to exceed	1.0mg/l
N-total	Not to exceed	10mg/l
Feacal Coliform	Less than	100mg/l
Oil & Grease	Not to exceed	10mg/l
NH4-N (Discharge in lakes/water bodies)	Not to exceed	5mg/l

**Note: The oil & Grease and NH4-A is not notified in the Environment Protection Rules, 1986 amended in 2017. However, considering the effect of oil and grease and ammonical N, standards for discharge in rivers are added.

Agenda item no. 09

Levying of fees for issue of compliance certificates

Member Secretary informed the members that the Board receives application from registered industrial units requesting to issue quarterly compliance certificates for imports. Since there are no specific fees levied in the Rules, no fees were being charged, it is now proposed to levy a fee of Rs. 5,000/- for issue of quarterly certificates for compliance for imports. Members approved for levy of the fee.

Agenda item no. 10

Conference of the Chairmen / Member Secretaries of the State Pollution Control Boards / Pollution Control Committees.

Member Secretary informed the members that Central Pollution Control Board conducts its regular Conferences with the Chairmen / Member Secretaries of the State Pollution Control Boards / Pollution Control Committees which are held in different States. She further informed that members that Chairman of the Board had proposed to Central Pollution Control Board to schedule the conduct of the Conference in Goa in the month of February, 2024, which will also coincide with the 2nd International Environmental Sustainable Summit, 2024, being organized by the Board from 8th to 10th February, 2024.

Member Secretary further informed that all expenses and modalities will be worked out by the Central Pollution Control Board and Goa State Pollution Control Board will be assisting in making necessary arrangements.

Members noted and approved.

Agenda item no. 11

Providing lodging and Boarding to VVIP Guests

Member Secretary informed the members that at times the Board invites Hon. Union Ministers, Secretaries, Govt. of India and other dignitaries of high-ranking importance and the Board is required to host and provide lodging and boarding to these esteemed Guests. Members noted and approved the lodging and boarding to these Guests in 5 starred Hotels.

III. With the permission of the Chair, the following Table items were taken for discussion.

Table item no. 01

Finalization of the unaudited accounts for the financial year 2017 - 2018

Members Secretary informed the members that the accounts for the financial year 2017-2018 have been compiled and finalized pending approval.

The External Auditor for Goa State Pollution Control Board, P.B. Deshpande & Co Chartered Accountants was requested to address the Board members regarding the deficiencies in Accounts of the Board. The partner of P.B. Deshpande & Co Chartered Accountants, Smt. Prachi Bharne highlighted the following points at the meeting.

a.	An amount of Rs 2,44,10,667/- is received on 17/03/2018, but no information on source of such amount is available with Goa State Pollution Control Board. Such amount is shown as an un-reconciled receipt in the current liabilities of the balance sheet.
b.	Oriental Bank of Commerce Monitoring A/c no. 0492 had an opening balance of Rs. 47,19,679.42/- and Rs 1,26,71,658/- and was seen two times in the closing balance sheet of the previous financial year. However, an amount of Rs 47,19,679.42/- was transferred to Reserves and Surplus so as to reflect a correct picture in the current years financial statements. No evidence was provided as to why such amount is reflected twice in the books of accounts of the previous financial year.
c.	Fixed Deposits of State Bank of Travancore of Rs. 1,06,09,542/- was closed in financial year 2016-2017 dated 8th October, 2016 was seen in the closing balance sheet of the previous financial year. The opening balance was thus incorrect in the current financial year and hence, such amount was transferred to Reserves and Surplus.
d.	Union Bank of India showed a balance of Rs 9373.31/- in the closing balance sheet of the previous financial year incorrectly. The Bank account showed a NIL balance as per the Bank statement. On verification of the Bank Account it was seen that an amount of Rs.1969/- was charged for expenses of the Bank Account and hence was charged to Reserves and Surplus. The Balance of Rs 7404.31/- was transferred to RBI as the Bank Account remained Unutilized. The same is shown under the Head of Reserve Bank of India under Sundry Debtors as the same will be recovered after successful KYC updation.
e.	Grants were received for laboratory equipment for financial year 2012-2013… Rs. 25,17,725/-, financial year 2013-2014…. Rs. 46,21,395/- , financial year 2014-2015….. Rs. 36,23,763/- and financial year – 2015-2016 …. Rs.1,86,79,670/- but on purchase of laboratory equipment such amount was not transferred to Reserves and Surplus and such grant was still seen in unutilized grants incorrectly. Hence entries were passed in the current financial year to transfer such amounts. No evidence was provided as to why such entries were not passed in the Books of Accounts of the previous financial year.
f.	Opening balance of Rs 6 lakh Bank Guarantee was seen in the Books of Accounts as a current liability. However, no amount confirmation or party bifurcation received for the same.
g.	M/s Aditya Env. Services Private Ltd is a sundry creditor with an outstanding balance of Rs. 2,65,298.89/- in the Books of Accounts. However no confirmation received from the said party.
h.	The Oriental Bank of Commerce SEAC & SEIAC Account no. 1380, have receipts and payment entries passed which are consolidated in nature. Such entries have been shown as related to the previous financial year. They are not bifurcated and common entry is passed. No explanation is provided as to why such entries were not passed in the previous financial year.
i.	TDS paid to contractors is deducted u/s 194 J instead of 194C incorrectly.
j.	TDS of Rs. 4,370/- and Rs. 4,285/- is passed in Tally under the nature of Professional fees but paid under 24Q (Salary) as TDS on salary incorrectly.
k.	The TDS provision on payment of advances (for building and SAP software) have not been complied with by the Board. Non deduction of tax leads to disallowance of expenses under the Income Tax Act, coupled with corresponding interest and penalties. Tax needs to be deducted and paid in time on all applicable cases to avoid resultant interest and penalties.
l.	Grants pending for utilization Rs 1,475.80 and grants related to Fixed Assets pending for utilization Rs 2,191.00 have an outstanding credit balance and no explanation is provided as to why such amounts are still outstanding.
m.	Grant from Central Pollution Control Board Old Rs 63,23,434/- has an outstanding credit balance and no explanation is provided as to why such amounts are still outstanding. No documents are provided to verify the origin of this grant.

n.	The Board has reported the tax deducted at source on its income from FDR as a Current Asset being an amount Rs. 73,62,356/-. However the recoverability of the amount being remote and the same should be written off. This would have had the effect of reducing the surplus for the year and reducing the balance of current assets by like amount.
o.	Rs 55,25,952/- of financial year 2015-2016 and Rs 1,02,952 of financial year 2016-2017 were transferred from Oriental Bank Of Commerce, Monitoring A/c no. 0492 to previous years income of MCWC. No details were provided on why such entries were not passed in the previous financial year

After deliberations, the members accepted the above deficiencies.

Table item no. 02
Final Award in Arbitration matter filed by Mr. Gerald D'Cunha

Member Secretary placed before the members the Arbitration award passed by the Arbitrator with respect to the Agreement entered by the Board with Mr. Gerald Da Cunha Proprietor of M/s Architecture Autonomous for providing architectural consultancy services for the construction of the laboratory cum office building for the Goa State Pollution Control Board at Saligao, Bardez Goa.

After detailed deliberations and on considering the opinion of the Boards Advocate the members resolved to accept the Arbitration Award dated 12/12/2023 passed by the Arbitrator in the Arbitration proceedings filed against the Board by Mr. Gerald D'Cunha.

The members further requested the Chairman of the Board to explore as to whether it will be possible to negotiate with Mr. Gerald D'Cunha with regard to reduction in the Arbitral amount payable by the Board.

IV. The meeting ended with thanks to the Chair.

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CHAPTER 4

COMMITTEES AND SUB-COMMITTEES CONSTITUTED BY THE BOARD AND THEIR ACTIVITIES

4.1 INTERNAL COMPLAINTS COMMITTEE:

Constitution of Internal Complaints Committee. **Refer Annexure - IA** and Corrigendum issued in respect of Constitution of Internal Complaints Committee. **Refer Annexure - IB**

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4.2 TECHNICAL ADVISORY COMMITTEE:

Constitution of Technical Advisory Committee. **Refer Annexure – II**

4.3 PROJECT STEERING COMMITTEE (PSC) ON MOEF&CC – GIZ TC:

Constitution of Project Steering Committee (PSC) on MOEF&CC GIZ TC. **Refer Annexure - III**

4.4 DEPARTMENTAL PROMOTION COMMITTEE AND DEPARTMENTAL SELECTION COMMITTEE:

Constitution of Departmental Promotion Committee and Departmental Selection Committee. **Refer Annexure – IV**

4.5 WASTE DISPOSAL COMMITTEE:

Constitution of Waste Disposal Committee. **Refer Annexure – V**

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CHAPTER 5

MONITORING NETWORK FOR AIR AND WATER QUALITY

The Goa State Pollution Control Board monitors the air and water quality under the Central Pollution Control Board sponsored projects National Air Monitoring Programme (NAMP) and National Water Monitoring Programme (NWMP).

5.1 NATIONAL AIR MONITORING PROGRAMME (NAMP)

Central Pollution Control Board is executing a nation-wide programme of ambient air quality monitoring National Air quality Monitoring Programme (NAMP). The network consists of 966 operating stations in 419 cities/towns in 28 states and 7 Union Territories of the country as on 19.11.2024.

The objectives of the N.A.M.P. are to determine status and trends of ambient air quality; to ascertain whether the prescribed ambient air quality standards are violated; to Identify Non-attainment Cities; to obtain the knowledge and understanding necessary for developing preventive and corrective measures .The monitoring of pollutants is carried out for 24 hours (4-hourly sampling for gaseous pollutants, 8-hourly sampling for particulate matter and 24-hourly sampling for PM2.5) with a frequency of twice a week, to have one hundred and four (104) observations in a year.

Under NAMP project Goa State Pollution Control Board monitors 18 Ambient Air Quality Monitoring (AAQM) locations within the state of Goa. Besides the 18 AAQM locations, Board monitors additional one location at Fire Brigade Station, MPT (Source station, this station is discontinued as NAMP station). The following are the stations under the NAMP project.

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1. Panaji Town, Near GSPCB Office
2. Vasco Town, Fuse Call Office
3. MPT Quarters Baina
4. Assanora
5. Bicholim
6. Honda
7. Codli
8. Amona
9. Usgao
10. Curchorem **(Recommissioned in Nov-24)**
11. Sanguem
12. Tilamol-Quepem
13. Margao Town
14. Mapusa Town
15. Ponda Town
16. Kundaim Industrial Estate
17. Cuncolim Industrial Estate

18. Tuem Industrial Estate
19. **MPT (Source Station)**

Out of the 18 NAMP locations, 16 locations are outsourced to MOEF&CC recognized Laboratory and 3 stations sampling and analysis conducted by Boards staff.

The geographical location of the 18 air quality monitoring stations is shown in the map presented in Figure 5.1.

Figure 5.1: Map of Goa showing the Ambient Air Quality Monitoring Stations under the National Air Monitoring Programme (NAMP)

5.2 TREND STATUS OF AMBIENT AIR QUALITY IN GOA

5.2.1 AMBIENT AIR QUALITY IN OTHER AREAS OF GOA (RESIDENTIAL/COMMERCIAL /INDUSTRIAL LOCATIONS)

Parameters like Particulate Matter (PM_{10}) Particulate Matter ($PM_{2.5}$), Sulphur Dioxide (SO_2) and Nitrous Oxide (NO_2) have been monitored at all the stations. The data has been displayed in term of Air Quality Index (AQI) as provided in Annexure VI for the various locations monitored. Air Quality in the State of Goa as per the locations monitored for the period April 2024- March 2025 is Good to Satisfactory for maximum time of the year. However, it is Satisfactory to Moderate for Industrial Estate like Cuncolim, Tuem, Bicholim, Vasco, Baina and Kundaim. The field observations around the monitoring locations indicate prominence of anthropogenic activities like vehicular movements, constructionactivities and road digging.

NATIONAL AMBIENT AIR QUALITY STANDARDS CENTRAL POLLUTION CONTROL BOARD NOTIFICATION

New Delhi, the18thNovember, 2009

No. B-29016/20/90/PCI-L—In exercise of the powers conferred by Sub-section (2) (h) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s).S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO_2), mg/m^3	Annual*	50	20	• Improved Westand Geake • Ultraviolet fluorescene
		24 hours**	80	80	
2	Nitrogen Dioxide (NO_2),mg/m^3	Annual*	40	30	• Modified Jacob &Hochheiser (Na- Arsenite) • Chemiluminescence
		24 hours**	80	80	
3	Particulate Matter (size less than 10 mm) or PM_{10}mg/m^3	Annual*	60	60	• Gravimetric • TOEM • Beta attenuation
		24 hours**	100	100	
4	Particulate Matter (sizelessthan2.5 microns)or$PM_{2.5}$ mg/m^3	Annual*	40	40	• Gravimetric • TOEM • Beta attenuation
		24 hours**	60	60	

5	Ozone(O_3)mg/m^3	8 hours **	100	100	• UV photometric • Chemiluminescence • Chemicalmethod
		1 hour **	180	180	
6	Lead(Pb) mg/m^3	Annual*	0.5	0.5	• ASS / ICP method after samplingon EPM 2000 or equivalent filter paper • ED – XRF using Teflon filter
		24 hours**	1.0	1.0	
7	CarbonMonoxide (CO) mg/m^3	8 hours**	2	2	• Non Dispersive Infra RED (NDIR) Spectroscopy
		1 hour**	4	4	
8	Ammonia(NH_3) mg/m^3	Annual*	100	100	• Chemiluminescence • Indophenol blue method
		24 hours**	400	400	
9	Benzene (C_6H_6) mg/m^3	Annual*	5	5	• Gas chromatography basedcontinuous analyser • Adsorption and desorption followed by • GC analysis
10	Benzo (a) Pyrene (BaP) – Particulate phase only ng/m^3	Annual*	1	1	• Solvent extraction followed by HPLC / GC analysis
11	Arsenic(As) ng/m^3	Annual*	6	6	• AAS/ICP method after sampling on EPM 2000 Or equivalent filter paper
12	Nickel (Ni) ng/m^3	Annual*	20	20	• AAS / ICP method after sampling on EPM 2000 or equivalent filter paper

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year.2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

5.2.2 AIR QUALITY INDEX (AQI)

Ambient Air Quality Monitoring data is utilized in the CPCB Air Quality Index (AQI) tool for effective dissemination of air quality information to the common person people in simple linguistic terms that is easily understood by public domain. An Expert Group comprising medical professionals, air quality experts, academia, advocacy groups, and SPCBs was constituted and a technical study was awarded to IIT Kanpur. IIT Kanpur and the Expert Group recommended the said AQI scheme. (ref Air Quality Index-CPCB)

There are six AQI categories, namely Good, Satisfactory, Moderately polluted, Poor, Very Poor, and Severe, based on eight pollutants (PM_{10}, $PM_{2.5}$, NO_2, SO_2, CO, O_3, NH_3, and Pb) for which short-term (up to 24-hourly averaging period) National Ambient Air Quality Standards are prescribed. (Refer Table 1).

Table 1 : AQI Category, Pollutants and Health Breakpoints

AQI Category (Range)	PM_{10} 24-hr	$PM_{2.5}$ 24-hr	NO_2 24-hr	O_3 8-hr	CO 8-hr (mg/m^3)	SO_2 24-hr	NH_3 24-hr	Pb 24-hr
Good (0-50)	0-50	0-30	0-40	0-50	0-1.0	0-40	0-200	0-0.5
Satisfactory (51-100)	51-100	31-60	41-80	51-100	1.1-2.0	41-80	201-400	0.5 –1.0
Moderately polluted (101-200)	101-250	61-90	81-180	101-168	2.1- 10	81-380	401-800	1.1-2.0
Poor (201-300)	251-350	91-120	181-280	169-208	10-17	381-800	801-1200	2.1-3.0
Very poor (301-400)								
Severe (401-500)	430 +	250+	400+	748+*	34+	1600+	1800+	3.5+

One hourly monitoring (for mathematical calculations only)

Based on the measured ambient concentrations, corresponding standards and likely health impact, is determined for each of these pollutants. The AQI values and corresponding ambient concentrations (health breakpoints) as well as associated likely health impacts for the identified eight pollutants are as follows (Refer Table 2).

Table 2: AQI : Associated Health Impacts

AQI	Associated Health Impacts
Severe (401-500)	SEVERE : May cause respiratory effects even on healthy people and serious health effect on people with lung/heart diseases
Very Poor (301–400)	VERY-POOR : May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases
Poor (201–300)	POOR : May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease
Moderately polluted (101–200)	MODERATELY POLLUTED : May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease Children and older adults
Satisfactory (51–100)	SATISFACTORY : May cause minor breathing discomfort to sensitive people
Good (0–50)	GOOD : Minimal impact

5.3 WATER QUALITY MONITORING IN THE STATE OF GOA

NATIONAL WATER QUALITY MONITORING PROGRAMME (NWMP)

Central Pollution Control Board (CPCB) in collaboration with State Pollution Control Boards (SPCBs) in the States and Pollution Control Committees (PCCs) in Union Territories has established a National Water-quality Monitoring Programme (NWMP) in order to assess status of water quality of water resources and to facilitate for prevention and control of pollution in water bodies. The Goa State Pollution Control Board (GSPCB) monitors water quality at 115 locations throughout Goa under the Central Pollution Control Board (CPCB) sponsored project National Water Quality Monitoring

Programme (NWMP). The water bodies monitored include rivers, wells, canals, lake, reservoir, creek, nallah and also common STP's (Inlet & Outlet). Among the rivers, the estuarine rivers as well as the freshwater rivers which form a part of the riverine network at water intake points for water treatment plants for public water supply. Ground water sources (bore-well water) located within the selective major industrial estates are also part of this programme. Besides selective Coastal beach-locations (20 nos. of coastal shoreline waters) along the coast of Goa are also included under NWMP network.

The 115 locations covered under this programme are distributed throughout Goa, such that 54 stations are in the North District and 61 are located in the South District.

NORTH GOA				
Sr. No.	Type	Rivers/ Lake / Canal / Wells / Creeks / STP / Beach / spring / waterfall	CPCB Classification as per designated best use	Location
1	R	Rv. Tiracol	Class 'SW-II'	Tiracol
2	R	Rv. Chapora	Class 'C'	1.Near Alorna Fort, Pernem
3	R		Class 'SW-II'	2.Siolim
4	R	Rv. Kalna	Class 'C'	Chandel, Pernem
5	R	Rv. Madei	Class 'C'	Dabos, Valpoi
6	R	Rv. Valvanti	Class 'C'	Sankli, Bicholim
7	R	Rv. Bicholim	Class 'C'	Baranzan Nagar, Bicholim
8	R	Rv. Assanora	Class 'C'	Assanora
9	R	Rv. Sinquerim	Class 'SW-II'	1.Candolim Side Near Bridge
10	R		Class 'SW-II'	2.Nerul Temple
11	R	Rv. Khandepar	Class 'C'	Opa–Ponda
12	R	Rv. Mandovi	Class 'SW-II'	1.Tonca, Marcela
13	R		Class 'SW-II'	2.Amona Bridge
14	R		Class 'SW-II'	3.Mandovi Bridge
15	R		Class 'SW-II'	4.IFFI Jetty
16	R		Class 'SW-II'	5.Near Hotel Marriot
17	R	Rv. Mapusa	Class 'SW-II'	Culvert on Mapusa-Panaji Highway
18	L	Anjunem Lake	Class 'E'	Anjunem
19	L	Mayem Lake	Class 'E'	Mayem, Bicholim
20	L	Carambolim Lake	Class 'E'	Carambolim, Old Goa
21	C	Cumbarjua Canal	Class 'SW-II'	Corlim (Discharge Point of Syngeta Ltd.)
22	W	Well - Kudaim I.E.	Class 'A'	M/s Cadila Healthcare Ltd.
23	W	Well - Corlim I.E.	Class 'A'	Corlim Industrial Estate
24	W	Well - Pilerne I.E.	Class 'A'	M/s Unichem
25	W	Borewell - Bethora I.E.	Class 'A'	Bethora Industrial Estate
26	W	Borewell - Madkaim I.E.	Class 'A'	Madkaim Industrial Estate

27	B	Tiracol Beach	Class 'SW-II'	Tiracol
28	B	Miramar Beach	Class 'SW-II'	Miramar
29	B	Calangute Beach	Class 'SW-II'	Calangute
30	B	Morjim Beach	Class 'SW-II'	Morjim
31	B	Vagator Beach	Class 'SW-II'	Vagator
32	R	River Mandovi	Class 'SW-II'	Ribandar-Chodan Ferry Point
33-A	STP	Influent Sample	-	Tonca STP
33-B	STP	Treated Effluent Sample	-	Tonca STP
34	WaterFall	Harwale Waterfall	Class 'C'	Harwale
35	Spring	Salmona Spring	-	Salmona, Saligao
36	R	Upstream of River Mandovi, M/s Vedanta Pvt. Ltd.	Class 'SW-II'	Amona
37	R	Downstream of River Mandovi, M/s Vedanta Pvt. Ltd.	Class 'SW-II'	Amona
38	L	Batim Lake	Class 'E'	Goa Velha
39	Creek	St. Inez Creek Upstream	Class 'B'	Panaji
40	Creek	St. Inez Creek Downstream	Class 'B'	Panaji
41	L	Dashi Lake	Class 'E'	Goa Velha
42	L	Toyyar Lake	Class 'E'	Chimbel
43	L	Pilerne Lake/saulem Lake/ Sangolda Lake	Class 'E'	, Pilerne, Sangolda
44	L	Bondvol Lake	Class 'E'	Calapur, Taleigao
45	L	Sulabhat Lake	Class 'E'	Agacaim
46	L	Curca Lake	Class 'E'	Tiswadi
47	L	Malebhaat Lake	Class 'E'	Tiswadi
48	L	Gawali maula Lake	Class 'E'	Tiswadi
49	L	Canturlim Lake	Class 'E'	Tiswadi
50	L	Parra Lake	Class 'E'	Bardez
51	L	Khandepar Lake	Class 'E'	Bicholim
52	B	Arambol Beach	Class 'SW-II'	Arambol
53	B	Baga Beach	Class 'SW-II'	Baga
54	B	Bambolim Beach	Class 'SW-II'	Bambolim

SOUTH GOA				
Sr. No.	Type	Rivers / Lake / Canal / Wells / Creeks / Nallahs / Dam	CPCB Classification as per designated best use	Location
1	R	Rv. Zuari	Class 'SW-II'	1.Panchawadi
2	R		Class 'SW-II'	2.Borim Bridge
3	R		Class 'SW-II'	3.Marciam Jetty
4	R		Class 'SW-II'	4.D/S of point where Cumbarjua Canal Joins
5	R	Rv. Sal	Class 'C'	1.Rumder
6	R		Class 'SW-II'	2.Khareband, Margao
7	R		Class 'SW-II'	3.Pazarconi, Cuncolim (Near Culvert Margao- Cancona NH)
8	R		Class 'SW-II'	4.Orlim Bridge, Orlim
9	R		Class 'SW-II'	5.Near Hotel Leela, Mobor, Cavelossim
10	R	Rv. Talpona	Class 'C'	1.Canacona
11	R	Rv. Khandepar	Class 'C'	Codli near Bridge, u/s OPA waterworks, Sanguem
12	R	Rv. Kushawati	Class 'C'	Near Bund at Kevona, Rivona, Sanguem
13	L	Salaulim Reservoir	Class 'C'	Salaulim, Sanguem
14	L	Raia Lake	Class 'E'	Curtorim
15	L	Saipem Lake	Class 'E'	Saipem
16	L	Curtorim Lake	Class 'E'	Curtorim
17	C	Agricultural Canal	Class 'E'	Agricultural Canal upstream of Cuncolim I.E. (1 Km from M/s Nicomet Ind.)
18	C	Agricultural Canal	Class 'E'	Agricultural Canal downstream of Cuncolim I.E. (1 Km from M/s Nicomet Ind.)
19	C	Dando Creek	Class 'C'	Dando Mollo, Velsao, Marmugao
20	W	Well - Verna I.E.	Class 'A'	M/s Cipla Limited
21	W	Well - Sancoale I.E.	Class 'A'	Sancoale Industrial Estate
22	W	Borewell - Concolim I.E.	Class 'A'	Cuncolim Industrial Estate
23	B	Mobor Beach	Class 'SW-II'	Mobor
24	B	Baina Beach	Class 'SW-II'	Baina
25	B	Galgibag Beach	Class 'SW-II'	Galgibag
26	B	Colva Beach	Class 'SW-II'	Colva
27	B	Velsao Beach	Class 'SW-II'	Velsao
28	Dam	Chapoli Dam	Class 'C'	Chapoli, Canacona
29	Creek	Colva Creek Upstream	Class 'SW-II'	Colva
30	Creek	Colva Creek Downstream	Class 'SW-II'	Colva
31	Nallah	BethoraNallah Upstream	Class 'B'	Bethora

32	Nallah	BethoraNallah Downstream	Class 'B'	Bethora
33	L	Sarzora Lake	Class 'E'	Chinchinim
34	L	Ambulor Lake	Class 'E'	Verna
35	L	Xeldem lake	Class 'E'	Quepem
36	L	Nanda Lake	Class 'E'	Quepem
37	L	Cottombi	Class 'E'	Curchorem
38	L	Panchami Lake	Class 'E'	Ponda
39	L	Tarvalem Lake	Class 'E'	Shiroda
40	L	Macasana Lake	Class 'E'	Macasana
41	L	Kamala Lake (komollamTollem)	Class 'E'	Benaulim
42	L	Tarvale (Moigal) Lake	Class 'E'	Shiroda
43	L	Dhulpe Lake	Class 'E'	Shiroda
44	L	Betal Temple Lake	Class 'E'	Keri, Ponda
45	L	Maimollem Lake	Class 'E'	Vasco
46	L	Durga Lake	Class 'E'	Chinchinnim
47	L	Udden Lake	Class 'E'	Shiroda
48	L	Talaulim Lake (Talsal Lake)	Class 'E'	Ponda
49	L	Bandolem Lake	Class 'E'	Sancoale
50	L	Orlim Lake	Class 'E'	Orlim
51	L	SapuTollem (tollea Bandar)	Class 'E'	Velim
52	L	VodleTollem	Class 'E'	Benaulim
53	L	Dhakte (diuler) Tollem	Class 'E'	Benaulim
54	L	Karmale Lake	Class 'E'	Ponda
55	B	Bogmalo Beach	Class 'SW-II'	Bogmalo
56	B	Betalbatim Beach	Class 'SW-II'	Betalbatim
57	B	Benaulim Beach	Class 'SW-II'	Benaulim
58	B	Varca Beach	Class 'SW-II'	Varca
59	B	Agonda Beach	Class 'SW-II'	Agonda
60	B	Palolem Beach	Class 'SW-II'	Palolem
61	B	Rajbhag Beach	Class 'SW-II'	Rajbhag

The total 115 locations are divided into two groups i.e., (i) 107 locations which are being monitored on monthly-basis and (ii) 8 locations (i.e. Bore wells located within selective industrial estates) are monitored on half yearly-basis as per CPCB protocol.

One Thousand Two Hundred and Fourteen (1263) samples were collected from above-referred locations and analyzed in our NABL accredited Board Laboratory during the year 2024-2025. The water-quality parameters / data obtained were interpreted using the Central Pollution Control Board's classification on the designated best use of the water body.

From the water Quality data analysis for the year 2024-2025, following is inferred: -

Based on the analysis vis-à-vis interpretation of water quality parameters in tune with the CPCB's prescribed criteria based on its 'Best Designated Usage', results, in general, can be enumerated as under:

1. **Fresh water**

NWMP locations categorized under class C (rivers / waterfall), throughout the State complies with the prescribed CPCB standards most of the times in the year.

St. Inez Creek (North Goa) &Bethora nallah (South Goa) categorized under class B indicate non-compliance to CPCB prescribed standards most of the times in the year for parameters like DO, BOD, Fecal coliform and Fecal Streptococci.

For NWMP locations categorized under Class E (lakes), parameters namely conductivity and Specific Absorption Ratio is not complying in few instances in the year, as per CPCB prescribed standards while all other parameters are complying.

For NWMP locations categorized under Class A (Wells / Bore-wells), parameters namely DO & BOD indicate non-compliance for most of the times in the year.

2. **Saline water**

Majority of the locations classified under SWII (Estuaries and Cumbharjua Canal) as well as some of the coastal waters indicate non-compliance to faecal coliform as per CPCB prescribed water quality standards.

The Board monitors micropollutants such as pesticides (Alpha HCH, Hexachlorobenzene, Beta HCH, Gamma HCH, Heptachlor, Aldrin, Trans -Heptachlor endo-epoxide, Alpha Endosulfan,p,p'-DDE, Dieldrin, Endrin, Beta Endosulfan,p,p'-DDD, o,p'-DDT, p,p'-DDT, Methoxychlor, Malathion& Chlorpyrifos) and heavy trace i.e. Ar, Cd, Cu, Pb, Cr, Ni, Zn, Fe, Mn, Hg metals once in six months. The said data is annexed at Annexure VII A. The pesticides are found to be Below Detection Limit (BDL) for all 115 locations.

Water Quality for all other all general water parameters 115 locations is annexed as **Annexure VII B.**

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CHAPTER 6

PRESENT STATE OF ENVIRONMENT, ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES

6.1 STUDY CONDUCTED AT AMONA- IN AND AROUND THE VEDANTA PIG IRON PLANT IN RESPECT OF W.P. NO. 881 OF 2017 DATED 26/11/2018.

The Goa State Pollution Control Board has conducted Ambient Air Quality Monitoring at 06 locations in 04 geographic quadrants at distances of 250 mtrs, 500 mtrs and 1000 mtrs respectively, around Pig Iron Plant (PIP) Amona plant boundary accordingly. Details are provided in Annexure VIII for the various locations monitored. The Monitoring was conducted from 17-05-2024 to 14-06-2024 (15 days). The Ambient Air Quality data is Good to Satisfactory during the monitoring period.

Vedanta Pig Iron plant, Amona-Goa

6.1.1 AMBIENT AIR QUALITY MONITORING (AAQM) AT M/S. GOA CARBON LTD, ST JOSE DE AREAL, SALCETE-GOA

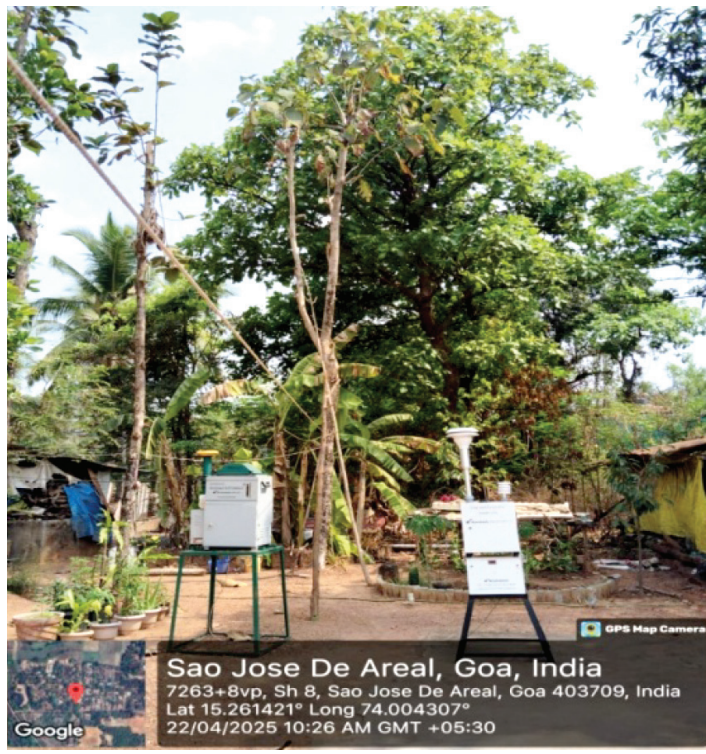
Ambient Air Quality Monitoring (AAQM) was conducted in and around M/s. Goa Carbon Ltd, St Jose De Areal, Salcete-Goa in the month of March 2025 in the matter of OA 80 of 2024 (WZ), Scheduled Tribe Association & Ors. v/s Goa State Pollution Control Board and before the Hon'"ble Western Zone, Pune, NGT. The unit deals with manufacturing of Calcined Petroleum coke by using raw petroleum Coke. The monitoring was carried out at 6 different locations to monitor the Ambient Air Quality in and around M/s Goa Carbon Ltd at St. Jose de Areal area to ascertain the air quality of the

area. Monitoring was done from 06-03-2025 to 17-03-2025 twice in a week. Compiled data is placed at **Annexure IX.**

Overall the average of PM_{10}, $PM_{2.5}$, SO_2& NOx at all residential sites were below the prescribed limits as specified in the guidelines of National Ambient Air Quality Standards (NAAQS) notified byCPCB.

However the PM_{10}, $PM_{2.5}$, NO_2, SO_2 concentration levels within plant premises are above the permissible limits, indicating the variations in the concentration level of fugitive dust emissions within the workplace due to ongoing process material handling activities, installation of Flue Gas Desulfurization Systems (FGDS), vehicular movements etc. observed during site visit.

Also the Board is continuously monitoring online Stack Emission data from Rotary Kiln Stack and Cooler Stack which measures the PM (Particulate Matter) on the real time basis and monitored values are found to be within the prescribed standard limits.



AAQM device installed at the Residence of Fedilis Freddy Travasso in the vicinity of M/s. Goa Carbon Ltd, St Jose De Areal, Salcete-Goa

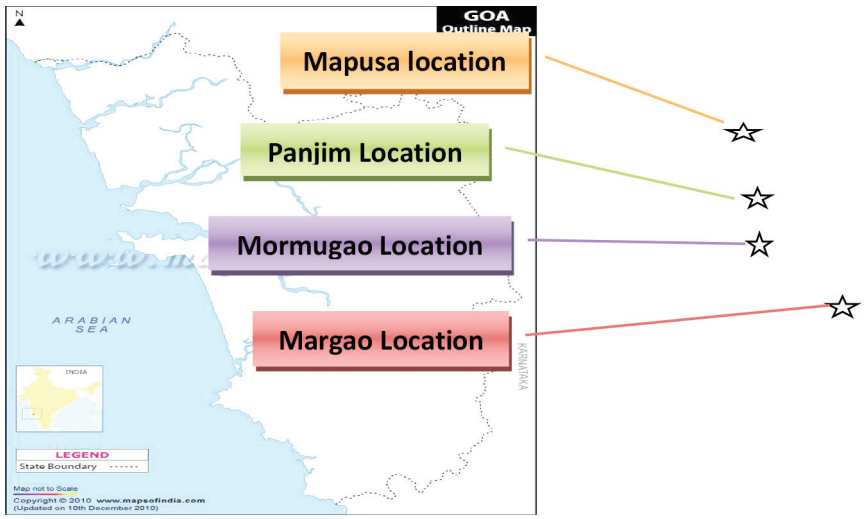
6.2 CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION (CAAQMS) MOBILE VAN CONDUCTED AMBIENT AIR QUALITY MONITORING IN AND AROUND THE INDUSTRIAL PREMISES IN GOA FOR THE YEAR APRIL 2024 TO MARCH 2025

The Goa State Pollution Control Board has carried out CAAQMS at 24 different Industrialunits within the state of Goa to ascertain the AAQ within the Industry.Incase of any exceedance of any monitored parameters the concerned Industry has been informed to undertake necessary control measures at site for control of Ambient Air Pollution.Generally the monitored parameters (PM_{10}, $PM_{2.5}$, SO_2, NO_x) were reported within permissible limit. List of units monitored is attached at **Annexure-X.**

Figure showing the Mobile CAAQM Van installed for monitoring

6.3 NOISE MONITORING AND AMBIENT AIR QUALITY MONITORING (AAQM) DURING DEEPAWALI FESTIVAL, 2024

6.3.1 NOISE LEVEL MONITORING DURING DEEPAWALI FESTIVAL, 2024



NOISE LEVEL LIMITS PRESCRIBED BY CBCB

Category of Area/Zone	Limits in dB (A) Leq	
	Day Time (6.00 am – 10.00 pm)	Night Time (10.00 pm – 6.00 am)
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

CITY: MAPUSA

- Latitude & Longitude :15.60^{0}42'N, 73.82 ^{0}56'E
- Climate/Meteorology: Tropical Climate
- Population:39,989 as per 2011 census*

- Major land use: Urban
- Monitoring Location: Near Municipal Market
- Description of monitoring site: Commercial
  - Activities around the monitoring location:
  - On Pre-Deepawali Day (24-10-2024):-Medium to Light Vehicular Movement and honking.
  - On Deepawali Day (31-10-2024): Medium to Light Vehicular Movement, honking, Bursting of fire crackers.

Data/Observations:
Noise Level During Deepawali Festival, 2024:

Location A: Mapusa Area/ Zone:Commercial	Pre-Deepawali Day (24-10-2024)			Deepawali Day (31-10-2024)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	53.1	90.2	64.1	49.9	84.7	62.7
19:00 to 20:00 Hr	52.3	85.2	62.6	48.6	82.7	61.3
20:00 to 21:00 Hr	50.9	92.0	61.3	49.6	83.5	60.1
21:00 to 22:00 Hr	48.8	93.5	63.9	47.2	93.8	63.8
22:00 to 23:00 Hr	46.5	77.8	57.3	46.4	95.7	61.7
23:00 to 24:00 Hr	45.3	81.9	57.1	44.1	76.8	54.9

CITY :PANJIM

- Latitude &Longitude :15029'56' N, 73049'40'E
- Climate/Meteorology: Tropical Monsoon Climate
- Population: 70,991 as per 2011 census*
- Major land use: Urban
- Monitoring Location: Patto-Panjim
- Description of monitoring site: Commercial
- Activities around the monitoring location:
  - On Pre-Deepawali Day (24-10-2024): Medium to Light Vehicular Movement, honking, vehicles parking area nearby .
  - On Deepawali Day (31-10-2024): Heavy to Light Vehicular Movement, honking, parking area nearby, Bursting of fire crackers .

Data/Observations:
Noise Level During Deepawali Festival, 2024:

Location B : Panaji Zone :commercial	Pre-Deepawali day (24-10-2024)			Deepawali Day (31-10-2024)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	54.1	82.8	60.6	58.6	106.5	68.8
19:00 to 20:00 Hr	52.3	86.1	60.8	60.0	106.0	70.6
20:00 to 21:00 Hr	51.2	81.3	56.2	52.3	107.1	71.4
21:00 to 22:00 Hr	48.9	76.3	55.1	41.9	106.1	72.6
22:00 to 23:00 Hr	48.7	78.4	54.0	37.0	68.5	44.4
23:00 to 24:00 Hr	47.7	73.8	53.1	36.5	76.2	51.9

CITY : VASCO

- Latitude &Longitude :15023'53'N, 73048'40'E
- Climate/Meteorology: Tropical Climate
- Population: 94393 as per 2011 census*
- Major land use: Urban
- Monitoring Location: Fuse Call-Office, Vasco
- Description of monitoring site: Commercial
- Activities around the monitoring location
    - On Pre-Deepawali Day (24-10-2024): Medium to Light Vehicular Movement. ringing of Bell & music was played at nearby temple (19:00hr to21:30hr)
    - On Deepawali Day (31-10-2024) : Heavy to Light Vehicular Movement , ringing of Bell music was played at nearby temple(19:00hr to21:30hr) honking ,Bursting of fire crackers

Data/Observations:
Noise Level During Deepawali Festival, 2024:

Location C : Vasco Area/Zone:Commercial	Pre-Deepawali Day (24-10-2024)			Deepawali Day (31-10-2024)		
Time duration	Lmin	Lmax	Leqd B(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:0l0 Hr	53.9	94.7	68.9	46.5	90.3	71.5
19:00 to 20:00 Hr	52.6	88.1	58.7	53.0	102.6	74.0
20:00 to 21:00 Hr	52.6	78.6	57.1	50.6	107.5	72.0
21:00 to 22:00 Hr	52.2	93.2	61.6	62.1	103.0	68.9
22:00 to 23:00 Hr	52.0	87.6	58.7	62.5	93.9	70.5
23:00 to 24:00 Hr	50.1	96.0	60.2	47.9	115.6	74.4

CITY : MARGAO

- Latitude &Longitude :15016'25'N, 73057'29'E
- Climate/Meteorology: Tropical Monsoon Climate
- Population: 87,650as per 2011 census*
- Major land use: Urban
- Monitoring Location: Municipality Garden
- Description of Monitoring Site: Commercial
- Activities around the monitoring location :
    - On Pre-Deepawali Day (24-10-2024): Medium to heavy Vehicular Movement. Honking
    - On Deepawali Day (31-10-2024): Heavy to Light Vehicular Movement, Honking, Bursting of fire crackers.

Data/Observations:
Noise level During Deepawali Festival, 2024:

Location D :Margao Area/Zone:Commercial	Pre-Deepawali Day (24-10-2024)			Deepawali Day (31-10-2024)		
Time duration	Lmin	Lmax	Leq dB(A)	Lmin	Lmax	Leq dB(A)
18:00 to 19:00 Hr	47.4	94.2	75.0	34.0	92.1	62.7
19:00 to 20:00 Hr	37.3	88.3	58.6	39.1	85.5	62.0
20:00 to 21:00 Hr	31.9	87.4	61.1	31.4	83.1	67.5
21:00 to 22:00 Hr	29.6	89.5	66.4	27.5	85.2	67.3

22:00 to 23:00 Hr	26.4	92.8	63.2	24.6	87.9	55.2
23:00 to 24:00 Hr	22.5	87.9	63.2	25.0	88.9	51.8

Note: All values are in Leq dB(A)

The value reported should not be compared with Prescribed Noise Level standards for designated areas as the time period for Measurement (6 p.m. to 12 Midnight) do not match with the period specified in the prescribed standard Day time(6 a.m. to10 p.m.) and night time(10 p.m. to 6 a.m.).

* Census data source – www.citypopulation.deindia

6.3.2 AMBIENT AIR QUALITY MONITORING (AAQM)DURING DEEPAWALI 2024

AAQM was carried out during Deepawali Festival in Panjim city from 24.10.2024 to 07.11.2024. The AAQM data during the said period is annexed at Annexure-XI.

It is observed that the PM10 and PM2.5 was found to be exceeding for 5 days and 4 days respectively out of 15 monitoring days.

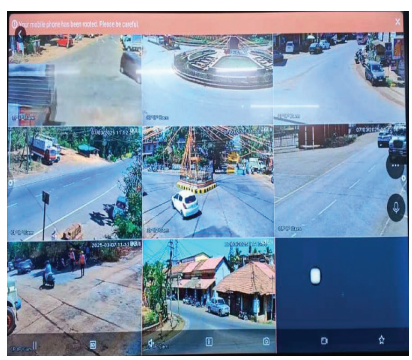
The observations were recorded on these days were medium to high density vehicular movement, outdoor burning (fire crackers and effigy burning) were observed during the monitoring period.

6.4 AMBIENT AIR QUALITY MONITORING ALONG IRON ORE TRANSPORTATION

As per the Hon'ble High court order dated 29th June 2024, directions were issued to conduct online AAQM along the iron ore transportation route for North Goa and South Goa. In view of the order, DMG and GSPCB were to install pollution monitoring devices of the nature that may upload information/data to the server of the DMG and GSPCB in Real Time to enable the Departments to monitor the Air Quality along the designated routes. A proper study had to be carried out by preparing a report specific to each route permitted by DMG and GSPCB for transportation of ore through the village on the basis of carrying capacity of each road. The DMG and GSPCB shall, as far as possible, monitor the trucks on each route on Real Time basis, install CCTV cameras connected to DVR at Panchayat Ghars and /or Public schools.

And hence proposal was invited and work order was issued to Centre for Development of Advanced Computing (CDAC) an R & D organisation of the Ministry of Electronic & Information Technology (Meity) for setting up of AAQM Stations at 34 locations. Details are provided in Annexure XII for the various locations monitored.

The online AAQM and CCTV Cameras installed across the iron ore transportation routes



The CCTV cameras and online data from said devices are connected to DMG and GSPCB office

6.5 INSTALLATION OF CONTINUOUS AMBIENT AIR QUALITY STATION (CAAQMS) AT CUNCOLIM INDUSTRIAL AREA

The Board was in receipt of several complaints related to air pollution caused due to the continuous emission from Industries and other activities in the Cuncolim industrial area. Though the Board monitors the Ambient Air Quality at Cuncolim Industrial estate under the CPCB NAMP programme, it was proposed to install a CAAQMS at Cuncolim industrial area to continuously monitor dust concentration level (PM10 and PM 2.5) and other emission gases such as SO_2, NOx, CO on real time basis. The CAAQMS has been installed and is presently under trial operation.

Figure showing CAAQMS Installed in Cuncolim Industrial area and online AAQM device installed

6.6 AMBIENT AIR QUALITY MONITORING AT MUNICIPAL WASTE SITES & LANDFILL SITE IN THE STATE OF GOA

The Goa State Pollution Control Board has carried out AAQM monitoring at SWM siteswith respect to Solid Waste Management Rules, 2016. The monitoring was conducted at 27 locations in and around landfill sites from 03/02/2025 till 20/03/2025. As per the NAAQS notification 2009all the 12 parameters are been monitored as per the standards prescribed for industrial areas. The parameters analysed are PM_{10}, $PM_{2.5}$,SO_2, NO_2, CO, O_3, NH_3, Pb, C_6H_6, BaP, Ni, As. Compiled data is placed at **Annexure XIII.**

Overall the average of all the 12 parameters analysed is within the prescribed limits as specified in the guidelines of NAAQS notified by the CPCB.

6.7 STATE ACTION PLAN ON AIR POLLUTION FOR CLEAN AIR IN THE STATE OF GOA

As per the Hon'ble NGT order dated 09.05.2024, CPCB has prepared "Guidelines for the preparation of State Action Plan" based on indicative template shared by the MOEF & CC, the State / UT's are requested to prepare /revise State Action Action Plan for Clean Air as per guidelines prepared by CPCB. Further, the State Government has constituted a State Steering Committee for Air Quality Monitoring for Goa (Goa-SSC) under the Chairmanship of Chief Secretary and has further constituted a sub-committee -State Air Quality Monitoring Committee (SAQMC), chaired by Secretary, Environment (North & South Goa) and District Air Quality Monitoring Committee, chaired by District Collector (North & South Goa)to prepare Goa specific action plan for clean air.

The draft report "State Action Plan on Air Pollution for Goa" Version I, is prepared by compiling the information collected from various line departments and includes the guidelines framed by the Central Pollution Control Board (CPCB), New Delhi. This report is the depiction of various measures/ initiatives "As is" undertaken by departments to control air pollution. In this regard, the Goa State Pollution Control Board has submitted the draft SAP clean air draft report prepared and emailed to CPCB. The final document is under finalization with pending inputs received from other stakeholders.

6.8 CONSULTANCY SERVICES FOR NOISE MAPPING, HOT SPOT IDENTIFICATION AND MITIGATION PLAN FOR NOISE POLLUTION CONTROL IN GOA

The Goa State Pollution Control Board (GSPCB) has awarded a project for Noise mapping, hotspots identification and mitigation measures to control noise pollution in state of Goa to Envirotech Solutions Pvt Ltd in collaboration with Central Road Research Institute (CRRI). It is a 12-month-long project executed by (CRRI), New Delhi, in collaboration with Envirotech Instruments Pvt Ltd.

The objective of the study is to develop noise maps in terms of day and night equivalent noise levels, indicating hotspots areas, collection of primary data comprising traffic volume, vehicular speed, road details (type, number of lanes, surface material etc), building layouts, meteorological and topographical data for the preparation of the noise map.

Presented draft final report with recommendation for both short term and long term measures derived from detailed analysis highlighting specific areas targeted for noise mapping and Mitigation measures to the stakeholders for reducing noise pollution in identified locations as per recommendations suggested in noise mapping report by conducting half day work shop on 11.02.2025 at GSPCB office, Saligao. The draft report is placed with Department of Environment for final approval.

Presentation on Noise Mapping, Hot spot identification and Mitigation Plan for Noise Pollution Control in Goa at GSPCB, Saligao on 11.02.2025

6.9 CONDUCTING CONTINUOUS AMBIENT NOISE MONITORING AT 12 LOCATIONS IN GOA, WORK ORDER ISSUED TO M/S. WELAN TECHNOLOGIES, PUNE.

Conducting Continuous Ambient Noise Monitoring at 12 locations in Goa. Installation of Noise Meters, operation & maintenance of Noise Stations, personnel, Monitoring and Data Submission on monthly basis to Board. 11 Stations are in operation out of 12 locations.

Coastal Ambient Noise Monitoring Locations	
Sr.No	Location
	Calangute
	Colva
	Anjuna
	Candolim
	Vagator
	Benaulim
	Mandrem
	Palolem
	Cavelossim
	Arambol
	Morjim

Noise station installed at Vagator

Noise station installed at Calangute residency

6.10 ANNUAL REPORT OF STACK MONITORING FOR THE YEAR APRIL 2024 TO MARCH 2025.

During the year under report, the Goa State Pollution Control Board conducted Stack Emission Monitoring programmes for 65 Stacks in different Industries / Hotels within the State of Goa . The units mostly comprise of Induction Furnaces, Reheating Furnaces, Boilers, Thermic Fluid Heaters, Rotary Kilns, DG Sets, Incinerators, etc. The list of units monitored is attached at **ANNEXURE-XIV**

Stack monitoring carried out at the unit by GSPCB sampling team

6.11 ONLINE AMBIENT AIR QUALITY MONITORING SYSTEMS PROVIDED UNDER CSR BY M/S. COLORCON ASIA PVT. LTD.

Under the initiative of CSR, M/s.Colorcon Asia Pvt. Ltd has provided 08 nos. of Online Ambient Air Quality Monitoringsystem to monitor PM_{10}, $PM_{2.5}$ and NOx and SO_2 concentration levels in the ambient Air.Board has installed these stations across the state of Goatoascertain the Air quality levels meets the regulatory standards on daily basis and also to identify the pollution sources contribution in case of sudden rise in pollutants levels.

Inaugural of the CAAQMS device donated by Colorcon at M/s. Smart Ling Holding Pvt Ltd, Verna Industrial Estate, Verna

Location of 08 nos. of Online AAQM systems provided by M/s. Colorcon Asia Pvt Ltd, Verna

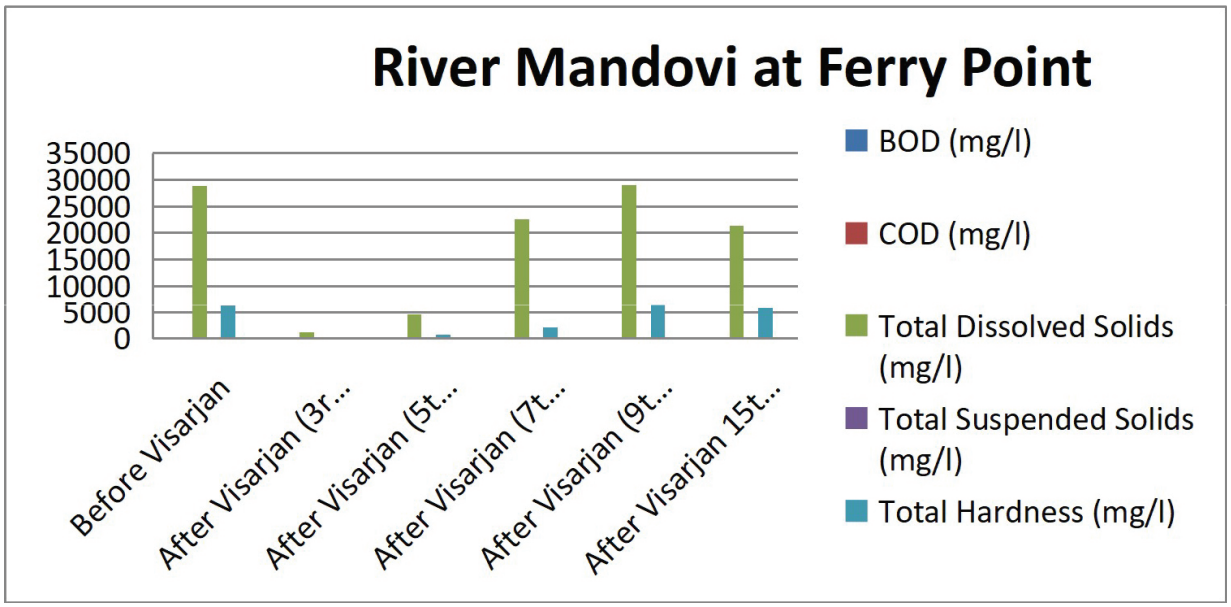
Sr No	Location of the Online AAQM System	Area Covered
1.	Near old Goa State Pollution Control Board Office Patto Panaji Goa	Panjim and nearby area
2.	Near Mahalaximi temple, Panaji Goa	Panjim Market
3.	Near Municipality Building above fuse call office , Vaso Da Gama- Goa	Vasco city
4.	Near Food Court opp Municipal Council Building, Curchorem-Goa	Curchorem bazaar
5.	Near RSS Ice plant Cuncolim Industrial Estate, Cuncolim- Goa	Cuncolim Industrial Estate
6.	Near M/s Goldy Fillpack Pvt Ltd Kundaim Industrial Estate, Kundaim Goa	Kundaim Industrial Estate
7.	Near Smart Ling Holding Pvt Ltd, Verna Industrial Estate	Verna Industrial Estate
8.	Near Goa Waste Management Plant Cacora, Sanguem Goa	Goa Waste Management Plant, Cacora, Sanguem Goa

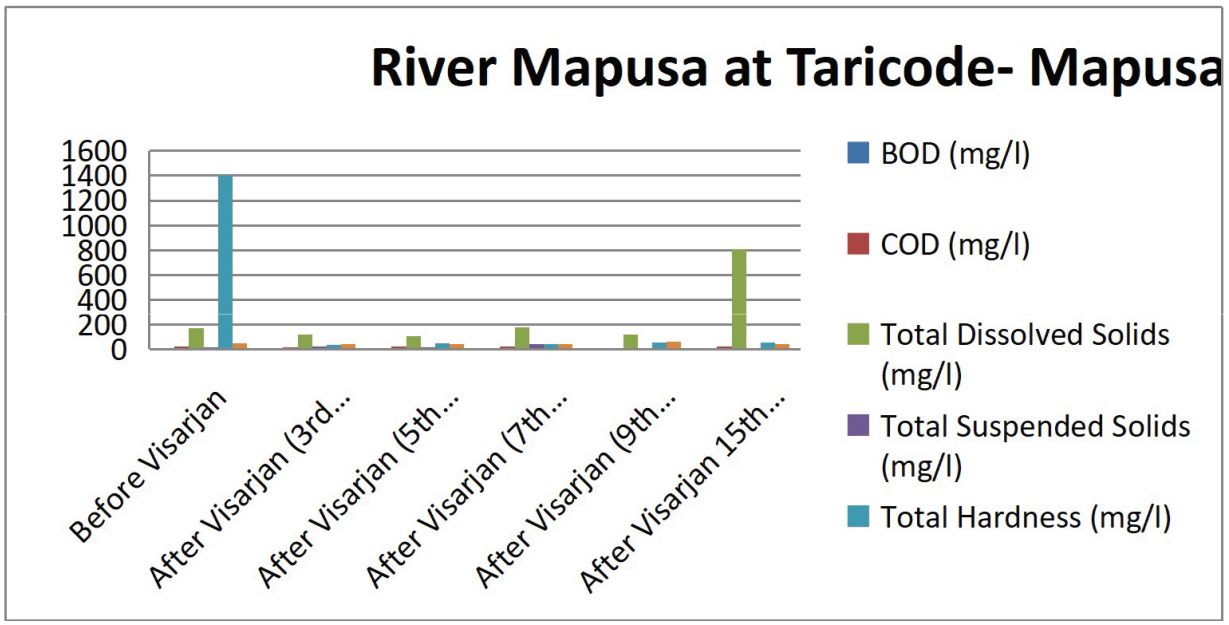
6.12 MONITORING OF WATER QUALITY DURING PRE-POST-GANESH VISARJAN (2024)

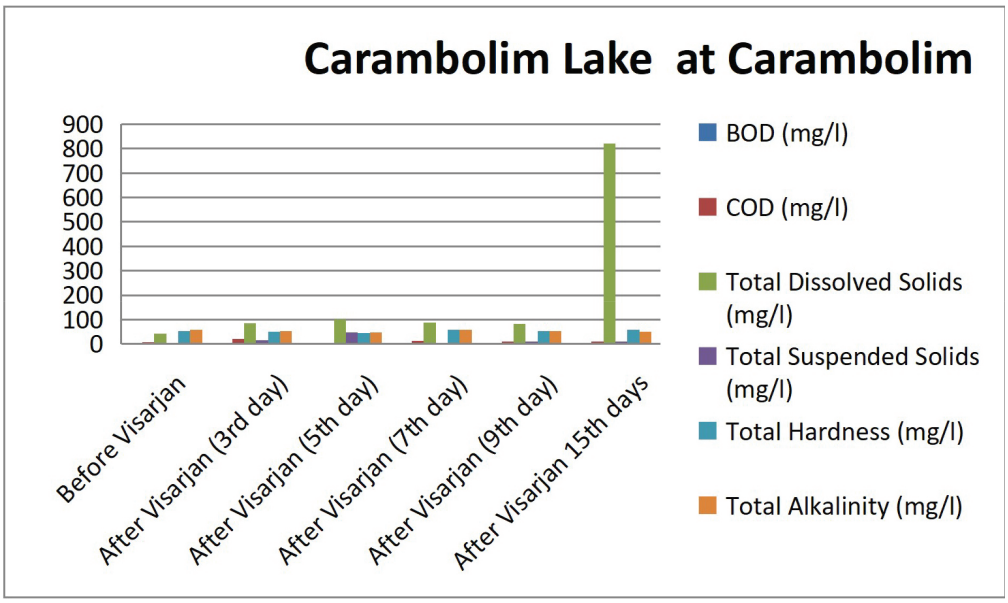
As per the directions of the Central Pollution Control Board, the Goa State Pollution Control Board (GSPCB), monitors water quality during Pre and Post Ganesh Visarjan at 12 major 'idol-immersion' locations during Ganesh festival. The parameters such as Dissolved Oxygen, Conductivity, Biochemical Oxygen Demand, Chemical Oxygen Demand, Total Dissolved Solids, Total Suspended

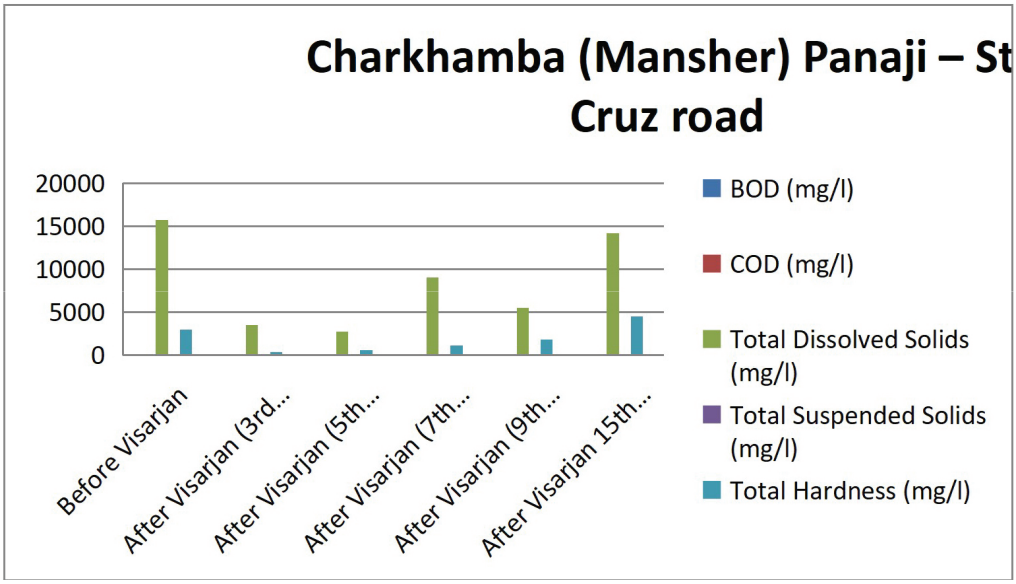
Solids, Total Hardness, Total Alkalinity and trace metals such as Cadmium, Cobalt, Copper, Total Chromium, Manganese, Lead, Zinc, Mercury, Antimony, Barium and Strontium are monitored.

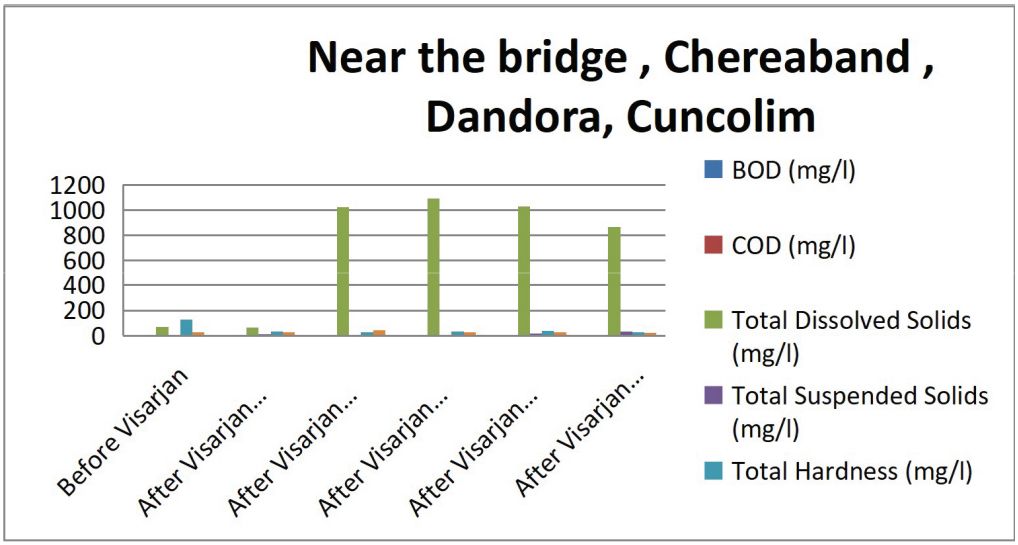
Water quality data is enclosed at **Annexure- XV A, B & C.**

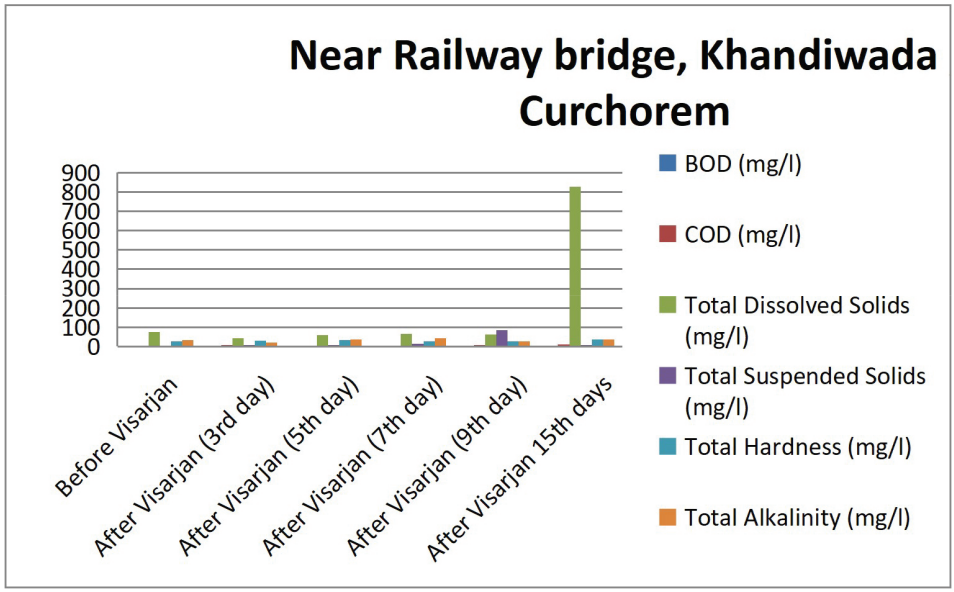


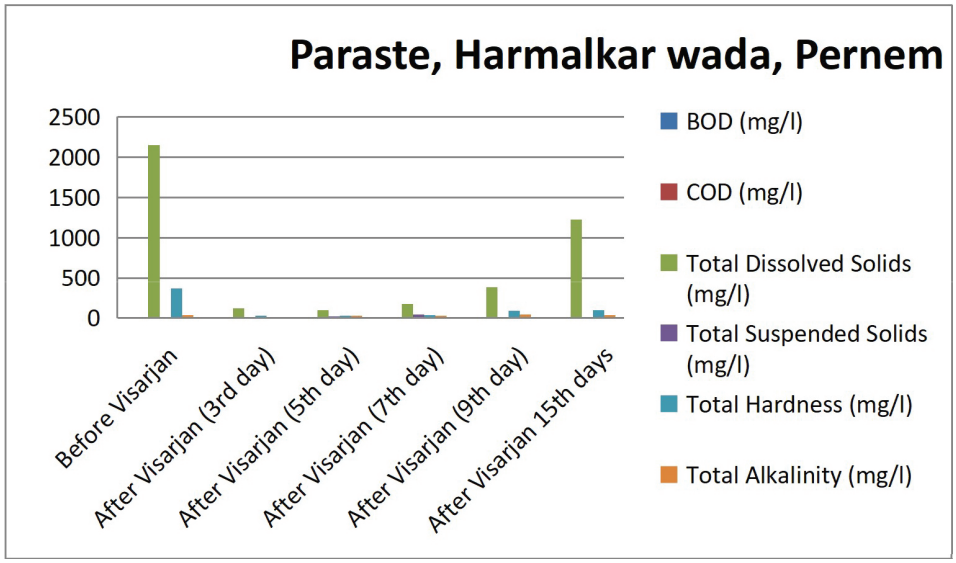


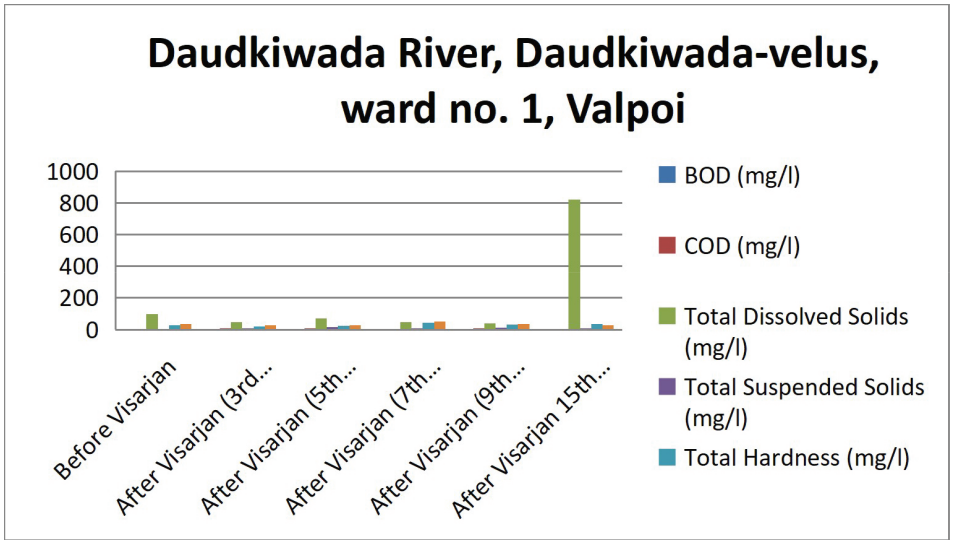

Carambolim Lake at Carambolim
900
800
700
600
500
400
300
200
100
0
Before Visarjan
After Visarjan (3rd day)
After Visarjan (5th day)
After Visarjan (7th day)
After Visarjan (9th day)
After Visarjan 15th days
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)
Total Alkalinity (mg/l)

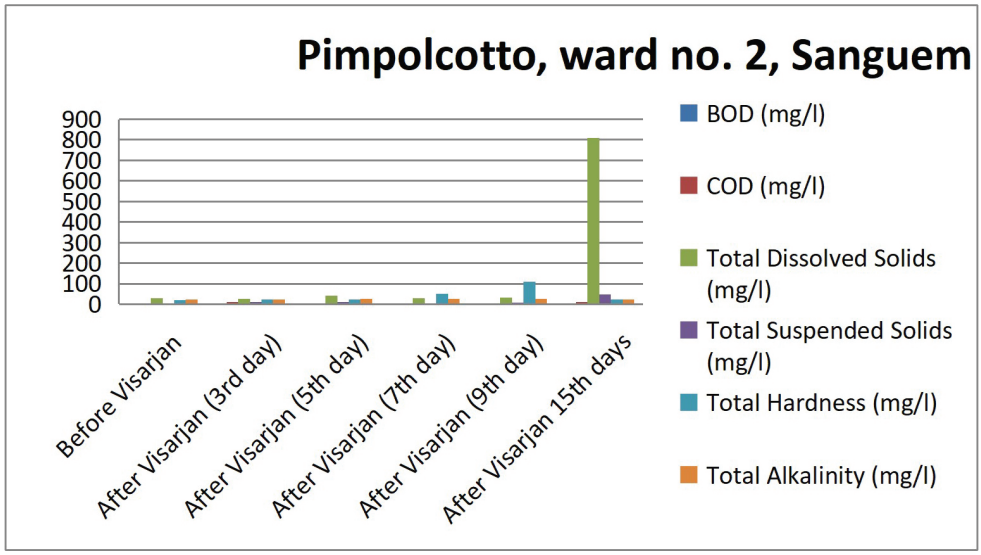

Charkhamba (Mansher) Panaji – St Cruz road
20000
15000
10000
5000
0
Before Visarjan
After Visarjan (3rd...
After Visarjan (5th...
After Visarjan (7th...
After Visarjan (9th...
After Visarjan 15th...
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)

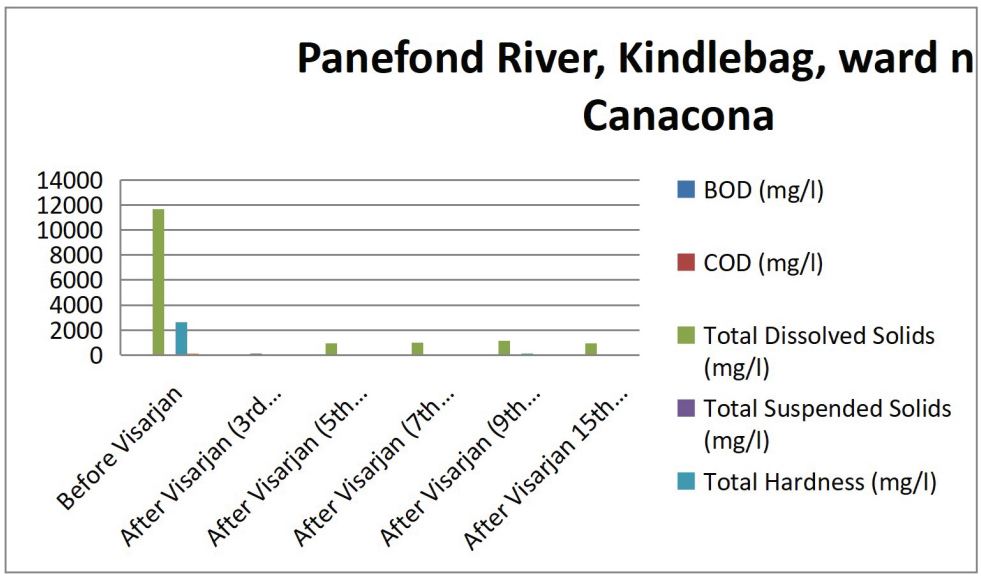

Near the bridge , Chereaband , Dandora, Cuncolim
1200
1000
800
600
400
200
0
Before Visarjan
After Visarjan...
After Visarjan...
After Visarjan...
After Visarjan...
After Visarjan...
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)

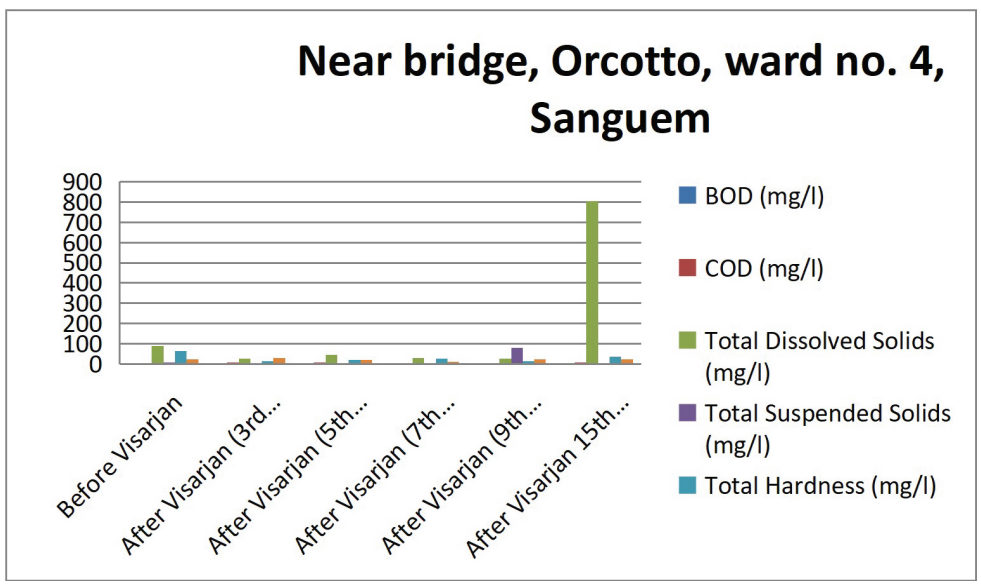

Near Railway bridge, Khandiwada Curchorem
900
800
700
600
500
400
300
200
100
0
Before Visarjan
After Visarjan (3rd day)
After Visarjan (5th day)
After Visarjan (7th day)
After Visarjan (9th day)
After Visarjan 15th days
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)
Total Alkalinity (mg/l)


Paraste, Harmalkar wada, Pernem
2500
2000
1500
1000
500
0
Before Visarjan
After Visarjan (3rd day)
After Visarjan (5th day)
After Visarjan (7th day)
After Visarjan (9th day)
After Visarjan 15th days
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)
Total Alkalinity (mg/l)


Daudkiwada River, Daudkiwada-velus, ward no. 1, Valpoi
1000
800
600
400
200
0
Before Visarjan
After Visarjan (3rd...
After Visarjan (5th...
After Visarjan (7th...
After Visarjan (9th...
After Visarjan 15th...
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)


Pimpolcotto, ward no. 2, Sanguem
900
800
700
600
500
400
300
200
100
0
Before Visarjan
After Visarjan (3rd day)
After Visarjan (5th day)
After Visarjan (7th day)
After Visarjan (9th day)
After Visarjan 15th days
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)
Total Alkalinity (mg/l)


Panefond River, Kindlebag, ward n Canacona
14000
12000
10000
8000
6000
4000
2000
0
Before Visarjan
After Visarjan (3rd...
After Visarjan (5th...
After Visarjan (7th...
After Visarjan (9th...
After Visarjan 15th...
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)


Near bridge, Orcotto, ward no. 4, Sanguem
900
800
700
600
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0
Before Visarjan
After Visarjan (3rd...
After Visarjan (5th...
After Visarjan (7th...
After Visarjan (9th...
After Visarjan 15th...
BOD (mg/l)
COD (mg/l)
Total Dissolved Solids (mg/l)
Total Suspended Solids (mg/l)
Total Hardness (mg/l)

6.13 ASSESSMENT OF GROUND WATER QUALITY MONITORING IN AND AROUND CUNCOLIM INDUSTRIAL ESTATE.

In the South Goa District, in the Salcete taluka, lies Cuncolim village . The Cuncolim Village area experiences warm and humid climate throughout the year. The summer season prevails from March to May and the area receives rainfall from June to September. The winter season prevails from November to February. The Cuncolim Industrial Estate is situated at North Latitude 15°11'9.09" N and east longitudes 74°1'45.93" E. The main source of ground water occurring in the Cuncolim Industrial Estate is mainly through precipitation and return flow from applied irrigation. The ground water occurrence and movement are controlled by the degree of weathering, fracturing and the geomorphological set up in the area. The ground water occurs under unconfined, semi-confined and confined conditions in the weathered and fractured zones of granite gneiss. The laterites and the near surface weathered and jointed zones of granitic gneiss and associated rocks together constitute the main water table or phreatic aquifer.

Fish processing units, fish meal, distillery, Induction furnaces, rolling mills engaged in the production of steel ingots and rolled products, chemical industries, bottling industries, etc. are in the Cuncolim Industrial Estate. Goa State Pollution Control Board continued monitoring of ground water (Bore well &Dug well) samples in and around Cuncolim Industrial Estate every month at 14 locations to comprehend the quality of ground water and to understand its impact on the surrounding areas. The overall monitoring data collected for the period from April 2024 to March 2025 indicates that out of 180 total ground water samples collected, 4 samples exceeded permissible limits for Copper, 2 samples exceeded permissible limits for Nickel, 9 samples exceeded permissible limits for Lead, 6 samples exceeded permissible limits for Mercury, 29 samples exceeded permissible limits for Iron, 86 samples exceeded permissible limits for Manganese. It may be noted that few samples (2 to 9) show random exceedance for metals like, Cu, Ni, Pb and Hg. It may also be noted that the latest samples collected in the month March 2025 have not reported any exceedance of the said metals.

However, it is observed that from the data that about 16% of the samples collected are found to be exceeding limits for Iron and 48% of the samples collected are found to be exceeding limits for Manganese.

6.14 PERFORMANCE EVALUATION STUDIES OF EFFLUENT TREATMENT PLANT (ETP) / SEWAGE TREATMENT PLANT (STP) IN THE STATE OF GOA.

Board conducts 24 hourly performance evaluation of the ETP/STP installed by the units. A summary/ conclusion, recommendations and status in terms of action taken by the Board along with the compliances submitted by the unit is put up in the table as listed below.

PERFORMANCE EVALUATION STUDIES OF SEWAGE TREATMENT PLANTS AND EFFUENT TREATMENT PLANTS IN THE STATE OF GOA.

Sr. No.	Name of the Unit	Summary/ Conclusion	Recommendation	Current status/ follow up action
1.	M/s CIPLA LIMITED. Plot No–: L-139 to L-146,VERNA INDUSTRIAL ESTATE, VERNA, SALCETE -GOA CONDUCTED ON 04-04-2024 to 05-04-2024 (24 HOURS COMPOSITE SAMPLING)	a. The unit is pharma industry manufacturing Tablets, Capsules etc b. The parameter which were measured to assess the treatment efficiency of ETP were DO, pH, COD ,BOD, SS, Total Coli form, Fecal Coli form, Lead as Pb, Mercury as Hg, Arsenic as As and Chromium as Cr . Results showed that the effluent from the ETP investigated passed to comply with discharge standard. c. The unit deals with manufacturing of formulation process. d. The Industry has designed an Effluent Treatment Plant to treat 300 KLD, however 210 KLD of waste water generated during monitoring period for ALL the plant ie Plant no I,II,III & IV. e. The ETP is running 70 % capacity and the treated water being utilised for boiler feed, cooling towers & gardening within the unit premises. f. The analysis reports indicate that MLSS, MLVSS & DO in the Aeration Tank are 670.0 mg/l, 510.0.0 mg/l and 2.0mg/l respectively. g. The settle ability test shown settled volume of sludge of approx.350 ml/l, i.e 35% of sludge in the Aeration tank and calculated SVI was 522.3 ml/g . h. The activated sludge plant was operating at F/M ratio at 2.64per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits	-	PE has reported compliance to treated water parameters

2.	M/s SEA QUEEN BEACH RESORT PVT LTD. PLOT No–: 96/5,THONVADO, BETALBATIM, COLVA, SALCETE –GOA CONDUCTED ON 29-04-2024 to 30-04-2024 (24 HOURS COMPOSITE SAMPLING)	a. The said unit has installed and operates the sewage treatment plant to treat the waste water generated from the hotel. b. The parameter which were measured to assess the treatment efficiency of STP were, pH, COD , BOD, SS & Oil & Grease c. The Industry has designed an Effluent Treatment Plant to treat 35 KLD, however 30 KLD of waste water generated during monitoring period. d. The waste water generated from kitchen is diverted through Oil & Grease trap and finally taken in to the raw domestic water collection tank. e. The STP is running 86% capacity and the treated water being utilized for gardening within the unit premises. f. The analysis reports indicate that MLSS, MLVSS & DO in the Aeration Tank are 398.0 mg/l, 248.0 mg/l and 2.0 mg/l respectively. g. The settle ability test shown settled volume of sludge of approx.180 ml/l, i.e 18% of sludge in the Aeration tank and calculated SVI was 206 ml/g. h. The activated sludge plant was operating at F/M ratio at 0.51per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits.	-	PE has reported compliance to treated water parameters.

3.	M/s VIL-LAGIO INN. PLOT No–: 90/13,BETAL-BATIM, SALCETE –GOA CON-DUCTED ON & 26-04-2024 (24 HOURS COMPOSITE SAMPLING)	a. The parameter which were measured to assess the treatment efficiency of STP were, pH, COD , BOD, SS & Oil & Grease b. The Industry has designed a Sewage Treatment Plant to treat 25 KLD, however 20 KLD of waste water generated during monitoring period. c. The waste water generated from kitchen is diverted through Oil & Grease trap and finally taken in to the raw domestic water collection tank. d. The STP is running 80% capacity and the treated water being utilised for gardening within the unit premises. e. The analysis reports indicate that MLSS, MLVSS & DO in the Aeration Tank are 380.0 mg/l, 260.0 mg/l and 1.8mg/l re-spectively. f. The settle ability test shown settled vol-ume of sludge of approx.140 ml/l, i.e 14% of sludge in the Aeration tank and calcu-lated SVI was 368 ml/g. g. The activated sludge plant was operating at F/M ratio at 1.4 per day. h. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are well within the prescribed standard limits	-	PE has reported compliance to treated water pa-rameters

4	M/s ALA GOA RESORTS. SURVEY No–: 109/1, PART B/1, RAWADDO, BETALBATIM, SALCETE –GOA CONDUCTED ON 02-05-2024 to 03-05-2024 (24 HOURS COMPOSITE SAMPLING)	a. The unit is a Hotel industry b. The parameter which were measured to assess the treatment efficiency of STP were, pH, COD , BOD, SS & Oil & Grease c. The Industry has designed a Sewage Treatment Plant to treat 25 KLD, during monitoring period 20 KLD of waste water was generated. d. The waste water generated from kitchen is diverted through Oil & Grease trap and finally taken in to the raw domestic waste water collection tank. e. The STP is running 80% capacity and the treated water being utilised for gardening within the unit premises and coconut plantation opposite to the hotel building. f. The analysis reports indicate that MLSS, MLVSS & DO in the Aeration Tank are 370.0 mg/l, 220.0 mg/l and 0.4mg/l respectively. g. The settle ability test shown settled volume of sludge of approx.160ml/l, i.e 16% of sludge in the Aeration tank and calculated SVI was 432 ml/g. h. The activated sludge plant was operating at F/M ratio at 1.6 per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the BOD parameter is exceeding the prescribed standard limits.	The consent needs to be amended with respect to the prescribed new standard limits for BOD perimeters as per the 157th Board meeting of the Goa State Pollution Control Board on 09/01/2024.	Direction as well as Corrigendum to comply with new STP- discharge standards is being issued to the firm for timely compliance.

5	M/s KENILWORTH BEACH RESORT & SPA. Survey No–:42/1, 43/1, 44/1, 45/1, &46/1.UTORDA, SALCETE –GOA CONDUCTED ON 16-07-2024 to17-07-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s Kenilworth Beach Resort & Spa have installed STP having capacity of 200 KLD in which, both domestic waste water and kitchen waste water were treated. b. The parameter which was measured to assess the treatment efficiency of STP was, pH, COD, BOD, SS & Oil & Grease. c. The Industry has designed a Sewage Treatment Plant to treat 200 KLD, however 100KLD of waste water generated during monitoring period. d. The waste water generated from kitchen is diverted through Oil & Grease trap and finally taken in to the raw domestic waste water collection tank. e. The STP is running 50 % capacity and the treated water being utilised for gardening within the unit premises. f. The analysis reports indicate that MLSS, MLVSS & DO in the Aeration Tank are 346.0 mg/l, 228.0 mg/l and 4.5 mg/l respectively. g. The settle ability test shown settled volume of sludge in the aeration tank was approx.180 ml/l, i.e 18% of sludge in the Aeration tank and calculated SVI was 520 ml/g . h. The activated sludge plant was operating at F/M ratio at 1.0per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits	-	PE has reported compliance to treated water parameters.

6	M/s PRESTIGE HOLIDAY RESORTS PVT. LTD. (HAATHI MAHAL), Plot No–: 110/1, Cavelossim, SALCETE – GOA, CONDUCTED ON 27-08-2024 to 28-08-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s Prestige Holiday Resorts Pvt. Ltd. (Haathi Mahal) is located at Plot No–:110/1 Cavelossim, Salcete-Goa. b. The unit is a hotel industry having 69 rooms, 80 Nos Villas and one kitchen with one restaurant having total of 67 persons seating capacity with one Spa and one Bar with 40 persons Seating Capacity c. The unit has installed ultra filtration unit after sand and carbon filter tank. d. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. e. The Industry have installed STP having capacity of 150 KLD in which, both domestic waste water and kitchen waste water were treated. f. The waste water generated from kitchen is diverted through Oil & Grease trap and finally taken in to the raw domestic waste water collection tank. g. As per figure 4.2 above spike in parameter of Suspended solids after 'clarifier cum settling tank 2' was observed, which indicates the removal of sludge is not done properly. h. The treated water being utilized for gardening within the unit premises. i. The settleability test shown settled volume of sludge in the aeration tank was approx.30 ml/l, and calculated SVI was 134.0 ml/g. j. The activated sludge plant was operating at F/M ratio at 0.60per day k. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits.	a. Unit may be instructed to increase capacity of the sludge removal in clarifier cum settling tank 1 & 2. b. Unit may be instructed to do rectification in Secondary treatment i.e. after clarifier cum settling tank 1.	Based on the non-compliance (s) reported, directions are being issued to the firm

		l. From stagewise % removal it is clearly observed the ETP plant overall removal % is between 80 -87%, which need to be improved above 90%. m. Secondary treatment reduction in nutrients removal (i.e COD, BOD) is not adequate.		
7	M/s ADVANI HOTELS & RESORTS (INDIA) LTD. (CARAVELA BEACH RESORT GOA), Survey No–:132/1, Varca Village, SALCETE –GOA CONDUCTED ON 29-08-2024 to 30-08-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s Advani Hotels & Resorts (India) Ltd. (Caravela Beach Resort Goa) is located at Survey No. 132/1, Varca Village, Salcete-Goa. b. The unit is a hotel industry having 200 nos of Rooms and 04 nos Restaurants. c. The parameter which was measured to assess the treatment efficiency of STP was, pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The Industry has designed a Sewage Treatment Plant to treat 250 KLD and 50 KLD capacity Laundry waste treatment plant. e. The waste water generated from kitchen is diverted through Oil & Grease trap and finally taken in to the raw domestic waste water collection tank. f. The parameter analyzed in the laboratory D.O. value showing BDL, as aeration provided is not sufficient. g. The settle ability test shown settled volume of sludge in the aeration tank was approx.5 ml/l, i.e 0.5 % of sludge in the Aeration tank and calculated SVI was 147 ml/g. Ideal value for SVI is in range of 50 ml/g to 150 ml/g. h. The activated sludge plant was operating at F/M ratio at 3.91per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. j. From stagewise % removal it is clearly observed the ETP plant overall removal % is above 90%, which indicates that plant is working effectively.	-	Based on the observations reported, letter is being issued seeking action taken report (ATR).

8	M/s BERGER PAINTS INDIA LTD., Plot No –: 316 & 317, Kundaim Industrial Estate, Kundaim, Ponda – Goa CONDUCTED ON 03-09-2024 to 04-09-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s Berger Paints India Ltd is located at Plot No. 316 & 317, Kundaim Industrial Estate, Kundaim, Ponda – Goa. b. The unit is a Paint manufacturing industry c. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The Industry has installed ETP having capacity of 60 KLD. e. The treated water being utilised for gardening within the unit premises. f. The settleability test shown settled volume of sludge in the aeration tank was approx. 25.0 ml/l, and calculated SVI was 139.0 ml/g. g. The activated sludge plant was operating at F/M ratio at 0.04per day. h. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. i. The diffuser providing air is placed adequately which covers complete dimension of aeration tank. j. From stagewise % removal it is clearly observed the ETP plant overall removal % is above 90%, which indicates that plant is working effectively.	-	PE has reported compliance to treated water parameters.

9	M/s EPL LIMITED, Plot No–:111, 113 & 114, KUNDAIM INDUSTRIAL ESTATE, KUNDAIM, PONDA – GOA CONDUCTED ON 30-09-2024 to 01-10-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s EPL LIMITED is located at Plot No. 111, 113 & 114, Kundaim Industrial Estate, Kundaim, Ponda-Goa. b. The unit is an industry having production capacity to manufacture Multiplayer Laminated collapsible tubes – 1591 Millions/ annum c. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The unit has installed ultra filtration plant after sand and carbon filter tank e. The Industry has installed STP having capacity of 20 KLD in which industrial waste is treated. f. The treated water being utilised for gardening within the unit and STP sludge is transported by tanker to Balaji Enterprises. g. The settleability test shown settled volume of sludge in the aeration tank was approx. 400.0 ml/l, and calculated SVI was 250.0 ml/g. The SVI is above the acceptable range from 50 mg/g to 150.0 mg/g. h. The activated sludge plant was operating at F/M ratio at 0.38per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. j. From stage wise % removal it is clearly observed the STP plant overall removal % is above 90%, which is acceptable for working of STP.	a. The consent needs to be amended with respect to the prescribed new standard limits for BOD parameters as per the 157th Board meeting of Goa State Pollution Control Board on 09/01/2024. b. The Sludge removal frequency must be increased as SVI , F/M ratio and settleable sludge is observed above the acceptable range.	An amendment to comply with new STP standards is being forwarded to the firm along with recommendations.

10	M/s QUALITY FOODS, Plot No–:SB 39 & SB 50A, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE –GOA CONDUCTED ON 22-10-2024 to 23-10-2024. (24 HOURS COMPOSITE SAMPLING)	a. M/s QUALITY FOODS, is located at Plot No–:SB 39 & SB 50A, CUNCOLIM INDUSTRIAL ESTATE, SALCETE -GOA b. The unit is a fish processing industry having fish processing capacity of 1000 MT/month. The unit has installed 50 KLD ETP for treatment of the waste water generated. c. The unit has installed ultra filtration unit and ultra violet unit after sand and carbon filter tank. d. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. e. The Industry has installed ETP having capacity of 50 KLD in which industrial waste is treated. f. The treated water being utilised for gardening within the unit premises. g. The settleability test shown settled volume of sludge in the aeration tank was approx.260.0 ml/l, and calculated SVI was 149.0 ml/g. h. The activated sludge plant was operating at F/M ratio at 0.35per day. High F:M ratio means there is a greater quantity of food relative to the quantity of microorganisms available to consume that food. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameter BOD is exceeding the permissible limit. j. The overall removal of COD, BOD and SS is 82 – 88 % which has to be improved to above 90% for efficient working of ETP plant.	i. Unit may be informed to re-check the ratio of addition of nutrients in aeration tank for growth of micro-organism. ii. Fresh activated sludge may be provided to aeration tank to increase the efficiency of BOD removal.	Subsequent to issuance of 'Addendum' followed by direction to submit Bank Guarantee (B.G.), the firm has submitted the response. Accordingly, a personal hearing is scheduled to review the submission / progress.

11	M/s United Marine Products Plot No–:L-28, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE –GOA CONDUCTED ON 22-10-2024 to 23-10-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s United Marine Products is located at Plot No–:L-28, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE –GOA b. The unit is an industry having capacity to process Fish Meat – 1200 Metric tonnes/ Month, Fish oil – 300 Metric tonnes/Month and Fish soluble paste – 600 Metric tonnes/Month c. The unit has installed RO filter after sand and carbon filter tank. d. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. e. The Industry has installed ETP having capacity of 66.4 KLD in which industrial waste is treated. f. The treated water being utilised for gardening within the unit premises and additional green belt area of 2100 sq. meter allotted by GIDC. g. The settleability test shown settled volume of sludge in the aeration tank was approx.250.0 ml/l, and calculated SVI was 258.0 ml/g. h. The activated sludge plant was operating at F/M ratio at 0.27per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. j. From stagewise % removal it is clearly observed the ETP plant overall removal % is above 90%, which indicates that plant is working effectively.	-	Subsequent to issuance of 'Addendum' followed by direction to submit Bank Guarantee (B.G.), the firm has submitted the response. Accordingly, a personal hearing is scheduled to review the submission / progress.

12	M/s Indotech Ice and cold storage Plot No–:U- 10, CUNCOLIM INDUSTRIAL ESTATE, SALCETE –GOA CONDUCTED ON 23-10-2024 to 24-10-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s Indotech Ice and cold storage is located at Plot No–:U- 10, CUNCOLIM INDUSTRIAL ESTATE, SALCETE –GOA. b. The unit is an industry having production capacity as below Ice Blocks – 4000 tonnes/annum Cold storage for Fish/Seafood - 5000 tonnes/annum c. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The Industry has installed ETP having capacity of 100 KLD in which industrial waste is treated. e. The treated water being utilised for gardening within the unit and ETP sludge is been used as Manure in Garden. f. The settleability test shown settled volume of sludge in the aeration tank was approx.160.0 ml/l, and calculated SVI was 134.0 ml/g. g. The activated sludge plant was operating at F/M ratio at 0.08per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. j. From stepwise % removal it is clearly observed the ETP plant overall removal % is above 90%, which indicates that plant is working effectively.	a. As ETP sludge is used as Manure in Garden, Unit may be directed to submit the TCLP test report for confirming it as Non – Hazardous material. b. pH of aeration tank water sample should be checked regularily. c. The unit may be directed to install sludge drying beds. The unit should provide closed shed for storing excess sludge generated from the STP.	Subsequent to issuance of 'Addendum' followed by direction to submit Bank Guarantee (B.G.), the firm has submitted the response. Accordingly, a personal hearing is scheduled to review the submission / progress.

13	M/s Sagar feeds and Food Processing Industries, Plot No–: L-27, CUNCOLIM INDUSTRIAL ESTATE, SALCETE –GOA CONDUCTED ON 23-10- 2024 to 24-10-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s Sagar feeds and Food Processing Industries is located at Plot No–: L-27, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE –GOA b. The unit is an industry having production capacity as below : c. Freezing of Raw Fish and Fisheries product – 2400 MT/annum d. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. e. The Industry has installed ETP having capacity of 50 KLD in which industrial waste is treated. f. The treated water being utilised for gardening within the unit and ETP sludge is been used as Manure in Garden. g. The settleability test shown settled volume of sludge in the aeration tank was approx.250.0 ml/l, and calculated SVI was 373.0 ml/g. h. The activated sludge plant was operating at F/M ratio at 0.28per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. j. From stagewise % removal it is clearly observed the ETP plant overall removal % is above 90%, which indicates that plant is working effectively.	a. As ETP sludge is used as Manure in Garden, Unit may be directed to submit the TCLP test report for confirming it as Non – Hazardous material. b. Primary settling tank should be made operational immediately. c. Temperature of raw influent taken for aeration should be brought to normal room Temperature. d. pH of aeration tank water sample should be checked regularly. e. The unit may be directed to install sludge drying beds. The unit should provide closed shed for storing excess sludge generated from the STP.	Subsequent to issuance of 'Addendum' followed by direction to submit Bank Guarantee (B.G.), the firm has submitted the response. Accordingly, a personal hearing is scheduled to review the submission / progress.

14	M/s Joecons marine exports private limted, Plot No–: L-4 & M-23, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE –GOA CONDUCTED ON 24-10-2024 to 25-10-2024 (24 HOURS COMPOSIT SAMPLING).	a. M/s Joecons marine exports private limted is located at Plot No–: L-4 & M-23, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE –GOA b. The unit is an industry having capacity to process Frozen Fish (without any cutting/processing) – 60 MT/day c. As per overall removal percentage seen in table 4.2, the value is below 90%, which concludes that ETP functioning is not efficient. d. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. e. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the BOD parameter is exceeding the prescribed standard limits. f. The Industry has installed ETP having capacity of 250 KLD in which industrial waste is treated. g. The treated water being utilized for gardening within the unit and ETP sludge is been used as Manure in Garden. h. The settleability test shown settled volume of sludge in the aeration tank was approx. 500.0 ml/l, and calculated SVI was 324.0 ml/g. i. The activated sludge plant was operating at F/M ratio at 0.19per day.	a. As ETP sludge is used as Manure in Garden, Unit may be directed to submit the TCLP test report for confirming it as Non – Hazardous material. b. The unit may be directed to install sludge drying beds. The unit should provide closed shed for storing excess sludge generated from the STP.	Subsequent to issuance of 'Addendum' followed by direction to submit Bank Guarantee (B.G.), the firm has submitted the response. Accordingly, a personal hearing is scheduled to review the submission / progress.

15	M/s QUALITY EXPORTS, Plot No–: SB 64 to 70 & SB 71, CUNCOLIM INDUSTRIAL ESTATE, SALCETTE – GOA CONDUCTED ON 24-10-2024 to 25-10-2024 (24 HOURS COMPOSITE SAMPLING)	a. M/s QUALITY EXPORTS is located at Plot No–: SB 64 to 70 & SB 71, CUNCOLIM b. INDUSTRIAL ESTATE, SALCETTE – GOA. c. The unit is a fish processing industry having fish processing capacity of 6000 Tonnes/annum and Ice Blocks 40 MT/ Day. d. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. e. The Industry has installed ETP having capacity of 120 KLD in which industrial waste is treated. f. The treated water being utilised for gardening within the unit premises ETP sludge is been used as Manure in Garden. g. The settleability test shown settled volume of sludge in the aeration tank was approx.150.0 ml/l, and calculated SVI was 82.0 ml/g. h. The activated sludge plant was operating at F/M ratio at 0.09per day. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the BOD parameter is exceeding the prescribed standard limits. j. From stagewise % removal it is clearly observed the ETP plant overall removal % for COD and BOD parameter is apprx. 85 %, which needs to be improved to 90%, with effective removal of COD/BOD in treatment of effluent.	a. The unit may be directed to install sludge drying beds. The unit should provide closed shed for storing excess sludge generated from the STP. b. As ETP sludge is used as Manure in Garden, Unit may be directed to submit the TCLP test report for confirming it as Non – Hazardous material.	Subsequent to issuance of 'Addendum' followed by direction to submit Bank Guarantee (B.G.), the firm has submitted the response. Accordingly, a personal hearing is scheduled to review the submission / progress.

16	M/s ION EXCHANGE INDIA LTD., Phase IV, Plot No–:U 05/04, VERNA INDUSTRIAL ESTATE, VERNA, SALCETTE – GOA CONDUCTED ON 07-01-2025 to 08-01-2025 (24 HOURS COMPOSIT SAMPLING)	a. M/s ION EXCHANGE INDIA LTD., is located at Phase IV, Plot No–:U 05/04, VERNA INDUSTRIAL ESTATE, VERNA, SALCETTE – GOA. b. The unit is an industry having production capacity as below-Composite Polymide sheets for RO membrane – 70000 m^2 / month a. RO membrane elements of various sizes – 75000 nos/month c. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The unit has installed ultra filtration plant after sand and carbon filter tank. e. The Industry has installed ETP having capacity of 45 KLD in which industrial waste is treated. f. The treated water being utilised for gardening within the unit and ETP sludge is transported by tanker to Saaj Traders. g. The settleability test shown settled volume of sludge in the aeration tank was approx. 300.0 ml/l, and calculated SVI was 141.0 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. h. The activated sludge plant was operating at F/M ratio at 0.16per day. The acceptable range for F/M ratio is from 0.04 to 0.15. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. j. From stage wise % removal (Table 4.2) it is clearly observed the ETP plant overall removal % is above 90%, which is acceptable for working of ETP.	Records for sludge transportation should be maintained by the unit.	The firm has been instructed to submit the Action taken Report (ATR) to achieve the suggestions made in the PE-report.

17	M/s GOA ISPAT PRIVATE LIMITED, Plot No E-6 & E-7, MADKAIM INDUSTRIAL ESTATE, MADKAIM- GOA CONDUCTED ON 09-01-2025 to 10-01-2025 (24 HOURS COMPOSITE SAMPLING).	a. M/s GOA ISPAT PRIVATE LIMITED is located at Plot No E-6 & E-7, MADKAIM INDUSTRIAL ESTATE, MADKAIM- GOA. b. The unit is an industry having capacity to manufacture M.S. Billets – Additional 59,500 MT/Annum and Rolling products TMT bars, Angles, channel – Additional 1,20,000 MT/Annum c. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The Industry has installed STP having capacity of 50 KLD in which sewage waste generated from 110 rooms for workers is treated. e. The treated water being utilised for gardening within the unit and STP sludge is used as manure in garden. f. The settleability test shown settled volume of sludge in the aeration tank was approx. 200.0 ml/l, and calculated SVI was 394.70 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. g. The activated sludge plant was operating at F/M ratio at 1.89per day. The acceptable range for F/M ratio is from 0.04 to 0.15. h. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. i. From stage wise % removal it is clearly observed the STP plant overall removal % is above 80%.	i. The consent needs to be amended with respect to the prescribed new standard limits for BOD parameters as per the 157th Board meeting of Goa State Pollution Control Board on 09/01/2024. ii. Inlet flow meter for influent water to aeration tank and outlet flow meter for treated waste water to be installed by the unit. iii. Log book was inlet / outlet flow meter readings should be maintained. iv. Proper excess to aeration tank should be provided. v. The F/M ratio and SVI as observed from the performance of STP is above the acceptable range, hence necessary rectification needed in aeration tank functioning.	Direction as well as Corrigendum to comply with new STP- discharge standards is being issued to the firm for timely compliance.

18	M/s HIMGIRI CASTING PRIVATE LIMITED, (HIMCAST), Plot No 291, KUNDAIM INDUSTRIAL ESTATE, KUNDAIM- GOA CONDUCTED ON 14-01-2025 to 15-01-2025 (24 HOURS COMPOSIT SAMPLING)	a. M/s HIMGIRI CASTING PRIVATE LIMITED, (HIMCAST), is located at Plot No 291, KUNDAIM INDUSTRIAL ESTATE, KUNDAIM- GOA. b. The unit is an industry manufacturing S.G. Iron casting having production capacity of 400 MT/Annum c. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. d. The Industry has installed STP having capacity of 30 KLD in which sewage waste is generated from domestic waste is treated. e. The treated water being utilised for gardening within the unit and domestic dried STP sludge is used as manure for gardening. f. The settleability test shown settled volume of sludge in the aeration tank was approx. 25.0 ml/l, and calculated SVI was 149.70 ml/g and the acceptable range for SVI is from 50 mg/g to 150.0 mg/g. g. The activated sludge plant was operating at F/M ratio at 0.14per day and the acceptable range for F/M ratio is from 0.04 to 0.15. h. Analysis report of Final sewage collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. i. From stage wise % removal it is clearly observed the STP plant overall removal % is above 80 - 90%.	The consent needs to be amended with respect to the prescribed new standard limits for BOD parameters as per the 157th Board meeting of Goa State Pollution Control Board on 09/01/2024	Direction to comply with new STP- discharge standards is being issued to the firm for timely compliance.

19	M/s UNITED BREWERIES LTD., Survey No. 164, 166, 167, Bethoda, Ponda – Goa CONDUCTED ON 16-01-2025 to 17-01-2025 (24 HOURS COMPOSIT SAMPLING)	j. a.The unit is a Beer manufacturing industry having production capacity of 6150 KL /month. k. b.The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. l. c.After secondary clarifier the effluent is directly pumped to reed bed technology and further to floor cleaning and gardening. No tertiary treatment available. m. d.The Industry has installed ETP having capacity of 700 KLD in which industrial waste is treated. n. e.The ETP sludge is not transported to any authorized dealer as informed during time of inspection. o. f.The settleability test shown settled volume of sludge in the aeration tank was approx. 210.0 ml/l, and calculated SVI was 121.40 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. p. g.The activated sludge plant was operating at F/M ratio at 0.32per day. The acceptable range for F/M ratio is from 0.04 to 0.15. q. h.Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. r. i.From stage wise % removal it is clearly observed the ETP plant overall removal % is above 90%, which is acceptable for working of ETP.	a.ETP sludge should be transported in a secured landfill site and bill/records to be maintained in log book. b.Unit should provide tertiary treatment such as ultra filtration system or any suitable technology prior to pumping effluent to reed bed technology.	An ‘amendment’ to comply with new STP- discharge standards is being issued to the firm for timely compliance

20	M/s UNITED BREWERIES LTD., Survey No. 164, 166, 167, Bethoda, Ponda – Goa CONDUCTED ON 16-01-2025 to 17-01-2025 (24 HOURS COMPOSITE SAMPLING)	s. a.The unit is a Beer manufacturing industry having production capacity of 6150 KL /month. t. b.The parameter which was measured to assess the treatment efficiency of STP was u. c.pH, COD, BOD, Total Suspended Solids & Oil and Grease. v. d.The Industry has installed STP having capacity of 20 KLD in which domestic waste is treated. w. e.The settleability test shown settled volume of sludge in the aeration tank was approx. 210.0 ml/l, and calculated SVI was 140.0 ml/g and the acceptable range for SVI is from 50 mg/g to 150.0 mg/g. x. f.The activated sludge plant was operating at F/M ratio at 0.05per day and the acceptable range for F/M ratio is from 0.04 to 0.15. y. Analysis report of Final sewage collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. From stage wise % removal (Table 4.2) it is clearly observed the STP plant overall removal % is above 90%, which is acceptable for working of STP	The consent needs to be amended with respect to the prescribed new standard limits for BOD parameters as per the 157th Board meeting of Goa State Pollution Control Board on 09/01/2024	

21	M/s Hotel De Mandarin, House No. 361 (66/4), Bamon-Waddo, Candolim, Bardez – Goa CONDUCTED ON 22-01-2025 to 23-01-2025 (24 HOURS COMPOSITE SAMPLING)	The unit is an hotel having 58 Rooms. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. The hotel has installed STP having capacity of 30 KLD in which domestic waste is treated. The entire STP unit process is below the ground which is difficult to understand the functioning of the process. The settleability test shown settled volume of sludge in the aeration tank was approx. 75.0 ml/l, and calculated SVI was 153.0 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. a. The activated sludge plant was operating at F/M ratio at 0.24per day. The acceptable range for F/M ratio is from 0.04 to 0.15. b. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. c. From stage wise % removal it is clearly observed the STP plant overall removal % is above 90%, which is acceptable for working of STP.	The consent needs to be amended with respect to the prescribed new standard limits for BOD parameters as per the 157th Board meeting of Goa State Pollution Control Board on 09/01/2024. a.Unit may be suggested to installed latest technology STP unit with ultra filtration technology which is easily accessible for understanding the functioning of the STP. b. STP to be installed above ground level which is difficult to understand the functioning of the process	Although, PE has reported compliance to treated water parameters, certain recommendations are being forwarded to the firm for timely compliance.

22	M/s PHOENIX PARK INN, (A UNIT OF PHOENIX TOWNSHIP LIMITED) Survey No. 226/8 A, 226/8 B, 226/D, 226/9, 226/10 & 226/14, Sequeira Wado, Candolim, Bardez – Goa CONDUCTED ON 24-01-2025 to 25-01-2025 (24 HOURS COMPOSIT SAMPLING)	1.The unit is an hotel having 128 Rooms. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Ammonical Nitrogen, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 80 KLD in which domestic waste is treated. c. The unit has Anoxic treatment, MBR system installed in STP unit. d. The settleability test shown settled volume of sludge in the aeration tank was approx. 900.0 ml/l, and calculated SVI was 178.6 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. e. The activated sludge plant was operating at F/M ratio at 0.62per day. The acceptable range for F/M ratio is from 0.04 to 0.15. f. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are not within the prescribed standard limits. Biochemical Oxygen Demand, Chemical oxygen demand and Total suspended solids parameters are exceeding the permissible limits. From stage wise % removal (Table 4.2) it is clearly observed the STP plant overall removal % is above 90%	The Sludge removal frequency must be increased as SVI , F/M ratio and settle able sludge is observed above the acceptable range	In response to reported non-compliance with STP-treated water parameters w.r.t. B.O.D., C.O.D., TSS, the Direction is being issued to the firm to rectify the treatment process for compliance to discharge water-quality standards within stipulated timeframe.

23	M/s RAMESH HOTELS & RESORTS PVT. LTD, (PLANET HOLLYWOOD) Survey No. 41/1, 41/2, & 41/3, Utorda, Salcette – Goa CONDUCTED ON 28-01-2025 to 29-01-2025 (24 HOURS COMPOSITE SAMPLING)	1. The unit is an hotel having 120 Rooms. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Ammonical Nitrogen, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 130 KLD in which domestic waste is treated. c. Unit is having laundry with 02 nos washer and 02 ns Dryer. d. The settleability test shown settled volume of sludge in the aeration tank was approx. 100.0 ml/l, and calculated SVI was 156.25 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. e. The activated sludge plant was operating at F/M ratio at 0.38per day. The acceptable range for F/M ratio is from 0.04 to 0.15. f. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. g.From stage wise % removal it is clearly observed the STP plant overall removal % is above 95%.	As Hotel unit is having laundry, Phosphate parameter may be included in consent.	Although jPE has reported compliance to treated water parameters, certain recommendations are being forwarded to the firm for timely compliance.

24	M/s BOGMALLO BEACH RESORT, Survey No. 66/06 & 66/08, Bogmallo, Mormugao – Goa CONDUCTED ON 31-01-2025 to 01-02-2025 (24 HOURS COMPOSITE SAMPLING).	1.The unit is a hotel having 170 Rooms. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Ammonical Nitrogen, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 90 KLD in which domestic waste is treated. c. The settleability test shown settled volume of sludge in the aeration tank was approx. 80.0 ml/l, and calculated SVI was 151.5 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. d. The activated sludge plant was operating at F/M ratio at 0.59per day. The acceptable range for F/M ratio is from 0.04 to 0.15. e. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. f. From stage wise % removal it is clearly observed the STP plant overall removal % is above 97%.	Unit should be instructed to control activated sludge wasting to lower the F/M ratio.	A 'letter' to comply with the recommendations referred to in the PE report is being issued to the firm for compliance.

25	M/s Silver Sands Pleasure Resorts Pvt. Ltd., (Unit: The Zuri White Sands, Goa Resort & Casino), Survey No. 178/1 & 179/1, Pedda, Varca, Salcette - Goa CONDUCTED ON 04-02-2025 to 05-02-2025 (24 HOURS COMPOSITE SAMPLING).	1. The unit is an hotel having 174 Rooms. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Ammonical Nitrogen, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 120 KLD in which domestic waste is treated. c. As observed from log book during time of inspection daily influent flow rate is approx. 110.0 – 115.0 KLD. d. Hotel has laundry with 03 nos washer and 04 nos dryer. e. The settleability test shown settled volume of sludge in the aeration tank was approx. 150.0 ml/l, and calculated SVI was 145.0 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. f. The activated sludge plant was operating at F/M ratio at 0.60per day. g. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. h. From stage wise % removal it is clearly observed the STP plant overall removal % is above 97%.	a.As hotel has daily influent flow rate of 110 – 115 KLD @ 95% occupancy and total capacity of STP plant is 120 KLD. May scrutinize if hotel has to increase the capacity of STP plant. b. Hotel has laundry unit, may propose to include Phosphate parameter in consent	Although, PE has reported compliance to treated water parameters, certain recommendations are being forwarded to the firm for timely compliance.

26	M/s HINDUSTAN WASTE TREATMENT PLANT PVT. LTD., Survey No. 47/1, Saligao, of Calangute Village, Bardez – Goa CONDUCTED ON 10-02-2025 to 11-02-2025 (24 HOURS COMPOSIT SAMPLING).	<u>NEW ETP – 600 KLD</u> The said unit has installed and operates the Effluent treatment plant to treat the waste water generated from the solid waste treatment facility. The capacity of the ETP is 600 KLD. The plant receives segregated organic (wet) and inorganic (dry) fractions, which amount to 150 TPD and 100 TPD, respectively. The inorganic waste is separated into 16 different fractions, out of which some materials are recycled and others are used to generate refuse derived fuel (RDF). a. The unit has installed new ETP of capacity 600 KLD and has existing ETP of capacity 100 KLD. b. The parameter which was measured to assess the treatment efficiency of ETP are pH, COD, BOD, Total Suspended Solids , Oil and Grease & Metals. c. The unit has installed ultra filtration plant along with RO filtration unit, However the RO filtration unit in not mentioned in the granted consent. d. The treated water being utilised for gardening with approx. area of 25,000 sq. mtr within the unit and ETP sludge is used as Manure in garden as sludge is from organic waste. e. The settleability test shown settled volume of sludge in the aeration tank was approx. 700.0 ml/l, and calculated SVI was 350.0 ml/g. The acceptable range for SVI is 50 ml/g to 150 ml/g. f. The activated sludge plant was operating at F/M ratio at 0.18per day. The acceptable range for F/M ratio is from 0.04 to 0.15. g. Dissolved Oxygen (DO) in aeration tank, Test result is BDL. h. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. From stage wise % removal it is clearly observed the ETP plant overall removal % is above 90%, which is acceptable for working of ETP.	a.The frequency of sludge wasting in aeration tank will have to be increased as SVI value and Settleability value are above the ideal range. b.Aeration may be increased as analysed DO (Dissolved Oxygen) value is BDL. c.May decide upon by higher authorities to instruct unit to conduct TCLP test and submit report to Board for sludge as it is used as manure in garden. d.Unit may install a flow chart of ETP process with flow direction for better understanding of process. e.Unit may be inquired regarding the approval of RO filtration unit.	As per the recommendations referred to in the PE report, the firm has applied for CCA expansion in respect of 100-KLD capacity ETP

27	M/s HINDUSTAN WASTE TREATMENT PLANT PVT. LTD., Survey No. 47/1, Saligao, of Calangute Village, Bardez – Goa CONDUCTED ON 10-02-2025 to 11-02-2025 (24 HOURS COMPOSIT SAMPLING).	<u>OLD ETP – 100 KLD</u> 1. The said unit has installed and operates the Effluent treatment plant to treat the effluent generated from domestic waste. The capacity of the ETP is 100 KLD. a. The unit has installed new ETP of capacity 600 KLD and has existing ETP of capacity 100 KLD. b. Consent to operate and authorization was granted vide order No. 5/5409/18-PCB/CI-4085 dated 03/05/2018 was valid up to 23/03/2020 under Water , Air Act and HW Rules. c. Consent was granted for New ETP (600 KLD) vide order No. 12/2022 - PCB/1351593/R00010171 dated 24/11/2022.However old ETP with 100 KLD is not mentioned in the Consent. d. The parameter which was measured to assess the treatment efficiency of ETP are pH, COD, BOD, Total Suspended Solids , Oil and Grease & Metals. e. The unit has installed MBR technology. f. The treated water being utilized for gardening with approx. area of 25,000 sq. mtr within the unit and ETP sludge is used as Manure in garden. g. The settleability test shown settled volume of sludge in the aeration tank was approx. 800.0 ml/l, and calculated SVI was 653.0 ml/g. The higher SVI values is due to MBR technology which requires excess biomass in aeration tank. h. The activated sludge plant was operating at F/M ratio at 0.23per day. The acceptable range for F/M ratio is from 0.04 to 0.15. i. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. From stage wise % removal it is clearly observed the ETP plant overall removal % is above 90%, which is acceptable for working of ETP.	a.Unit may be instructed to include existing ETP plant (100 KLD) in the Consent granted for New ETP (600 KLD) vide order No. 12/2022 - PCB/1351593/R00010171 dated 24/11/2022. b.Unit may install a flow chart of ETP process with flow direction for better understanding of process.	

28	M/s The Astor, Survey No. 22/7 & 22/8 - A, Bamon-Vaddo, Candolim, Bardez – Goa CONDUCTED ON 18-02-2025 to 19-02-2025 (24 HOURS COMPOSITE SAMPLING)	1.The unit is a Hotel unit having 59 nos rooms. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, N-Total, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 35.0 KLD in which domestic waste is treated. However the daily influent flow rate is approx. 35.0 to 40.0 KLD. c. The settleability test shown settled volume of sludge in the aeration tank was approx. 600.0 ml/l, and calculated SVI was 480.0 ml/g. The ideal range for SVI is from 50 mg/g to 150.0 mg/g. d. The activated sludge plant was operating at F/M ratio at 1.0per day. The ideal range for F/M ratio is from 0.04 to 0.15. e. Large quantity of black (dead) sludge was observed in raw collection tank, Equalisation and aeration tank which may account into increase of settleability value, SVI value and F/M Ratio. f. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the pH parameter is below the prescribed standard limits. g. From stage wise % removal it is clearly observed the STP plant overall removal % is above 90 %.	a.The excess accumulated dead sludge should be removed and fresh active sludge should be added in aeration Tank. b.Unit may be directed to specify reason for increase in SVI values and F/M ratio. c.The ideal MLSS value should maintained in aeration tank. d.pH values should be maintained within the permissible limits as per consent for Final treated STP water sample . e.The daily influent flow rate (KLD) of sewage is similar to the installed capacity of STP plant. Unit may be suggested to increase the capacity of STP plant.	A 'letter' to comply with the recommendations referred to in the PE report is being issued to the firm for compliance.

29	M/s Mandovi Distilleries & Breweries Pvt. Ltd., Plot No D-8, Madkaim Industrial Estate, Madkaim – Goa CONDUCTED ON 11-02-2025 to 12-02-2025 (24 HOURS COMPOSITE SAMPLING)	1. The unit is an Industry manufacturing Brandy, Whisky, Rum, Gin, Vodka, RTD having production capacity of 2,50,000 cases/Month. a. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids & Oil and Grease. b. The Industry has installed ETP having capacity of 32.0 KLD in which industrial waste is treated. Daily influent flow rate is approx. 30.0 – 35.0 KLD. c. The settleability test shown settled volume of sludge in the aeration tank was approx. 100.0 ml/l, and calculated SVI was 126.0 ml/g. The ideal range for SVI is from 50 mg/g to 150.0 mg/g. d. The activated sludge plant was operating at F/M ratio at 0.62day. The ideal range for F/M ratio is from 0.04 to 0.15. e. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. f. From stage wise % removal it is clearly observed the ETP plant overall removal % is above 90 %.	i.Unit may be suggested to increase the capacity of ETP as daily inflow rate is equivalent to capacity of ETP plant. ii.Unit should be instructed to control activated sludge wasting to lower the F/M ratio.	A 'letter' to comply with the recommendations referred to in the PE report is being issued to the firm for compliance.

30	M/s FOMENTO RESORTS & HOTEL LIMITED, CIDADE DE GOA - HORIZON Survey No. 245/1 & 246/1, Vainguinim Beach, Dona Paula, Tiswadi – Goa was CONDUCTED ON 13-02-2025 to 14-02-2025 (24 HOURS COMPOSITE SAMPLING).	1. The unit is a Hotel unit having 299 nos rooms and 03 nos restaurant. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Ammonical Nitrogen, N-Total, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 500 KLD in which domestic waste is treated. c. The settleability test shown settled volume of sludge in the aeration tank was approx. 100.0 ml/l, and calculated SVI was 312.50 ml/g. The ideal range for SVI is from 50 mg/g to 150.0 mg/g. d. The activated sludge plant was operating at F/M ratio at 5.36per day. The ideal range for F/M ratio is from 0.04 to 0.15. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits From stage wise % removal it is clearly observed the STP plant overall removal % is above 90 %.	a.The F/M ratio and SVI should be lowered by increasing activated sludge in the aeration tank. The higher F/M and SVI ratio indicates influent (Biomass) is higher as compared to Microorganism (Sludge) available in the aeration tank.	The firm has been instructed to submit clarifications to recommendations made in the PE-report.

31	M/s THE INDIAN HOTELS COMPANY LIMITED, (Unit: TAJ EXOTICA RESORT & SPA, GOA), Survey No. 341/6, 7, Calwaddo, Benaulim, Salcette – Goa CONDUCTED ON 25-02-2025 to 26-02-2025 (24 HOURS COMPOSITE SAMPLING)	1. The unit is a Hotel unit having 140 nos rooms and 03 nos restaurant. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Ammonical Nitrogen, N-Total, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 250 KLD in which domestic waste is treated. c. The settleability test shown settled volume of sludge in the aeration tank was approx. 450.0 ml/l, and calculated SVI was 918.40 ml/g. The ideal range for SVI is from 50 mg/g to 150.0 mg/g. d. The activated sludge plant was operating at F/M ratio at 0.55per day. The ideal range for F/M ratio is from 0.04 to 0.15. e. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. From stage wise % removal it is clearly observed the STP plant overall removal % is above 95 %.	1Unit may be instructed to control activate sludge wasting to lower the F/M ratio and SVI values.	The firm has been instructed to submit clarifications to recommendations made in the PE-report.

32	M/s MARKSANS PHARMA LIMITED., Plot No. A-1, Phase 1-A, VERNA INDUSTRIAL ESTATE, VERNA, SALCETTE – GOA CONDUCTED ON 06-02-2025 to 07-02-2025 (24 HOURS COMPOSITE SAMPLING)	1. The unit is an industry manufacturing Tablets/ Capsules, Dry Powder, Topical, Liquid Oral having production capacity of 0.288 Billion/ annum, 0.2 Million/annum, 10 Million/annum and 40 Million/annum respectively. a. The parameter which was measured to assess the treatment efficiency of ETP was pH, COD, BOD, Total Suspended Solids, Metals & Oil and Grease. b. The Industry has installed ETP having capacity of 200 KLD in which industrial waste and domestic waste is treated. c. The treated water being utilised for gardening within the unit and ETP sludge is transported to JK Cement through Hazardous waste management system. d. The settleability test shown settled volume of sludge in the aeration tank was approx. 50.0 ml/l, and calculated SVI was 150.0 ml/g. The acceptable range for SVI is from 50 mg/g to 150.0 mg/g. e. The activated sludge plant was operating at F/M ratio at 0.15per day. The acceptable range for F/M ratio is from 0.04 to 0.15. f. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. g. From stage wise % removal it is clearly observed the ETP plant overall removal % is above 95%, which is acceptable for working of ETP.	--	PE has reported compliance to treated water parameters.

33	M/s GRAND VIEW HOTELS PVT. LTD., (GOLDEN TULIP), Plot No. 18/4, BamonVaddo, Candolim, Bardez – Goa CONDUCTED ON 20-02-2025 to 21-02-2025 (24 HOURS COMPOSITE SAMPLING).	1.The unit is a Hotel unit having 52 nos rooms and a80 person seating capacity restaurant. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 65.0 KLD in which domestic waste is treated. c. The settleability test shown settled volume of sludge in the aeration tank was approx. 50.0 ml/l, and calculated SVI was 148.0 ml/g. The ideal range for SVI is from 50 mg/g to 150.0 mg/g. d. The activated sludge plant was operating at F/M ratio at 0.81per day. The ideal range for F/M ratio is from 0.04 to 0.15. e. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. f. From stage wise % removal (Table 4.2) it is clearly observed the STP plant overall removal % is above 90 %.	Unit should be instructed to control activated sludge wasting to lower F/M ratio and SVI values	Although, PE has reported compliance to treated water parameters, certain recommendations are being forwarded to the firm for timely compliance.

34	M/s Courtyard By Marriot, Survey No. 58/1, 58/2, 58/3 & 58/5, Near Queeny Castle, Colva, Salcette – Goa CONDUCTED ON 04-03-2025 to 05-03-2025 (24 HOURS COMPOSITE SAMPLING)	1.The unit is a Hotel unit having 95 nos rooms and a 90 person seating capacity restaurant. a. The parameter which was measured to assess the treatment efficiency of STP was pH, COD, BOD, Total Suspended Solids, N-Total, Fecal coliform & Oil and Grease. b. The hotel has installed STP having capacity of 80.0 KLD in which domestic waste is treated. Daily influent flow rate is approx. 30.0 KLD. c. The Unit has installed MBR technology, with UV treatment and chlorine dosing. d. The settleability test shown settled volume of sludge in the aeration tank was approx. 900.0 ml/l and calculated SVI was 290.0 ml/g. No Ideal SVI range can be assigned as in advanced processes like MBR, Settleability, SVI ratio is higher. Staying in these ranges ensures effective treatment and clean output. e. The activated sludge plant was operating at F/M ratio at 0.14per day. The ideal range for F/M ratio is from 0.04 to 0.15. f. Analysis report of Final effluent collected from 24 hours during operation of plant indicates that the consent parameters are within the prescribed standard limits. g. From stage wise % removal it is clearly observed the STP plant overall removal % is above 90 %.	--	PE has reported compliance to treated water parameters.

6.15. OTHER ACTIVITIES OF THE BOARD

A. Technical Advisory Committee (TAC) meetings:

The Board has constituted its Technical Advisory Committee (TAC) under section 9 of the water (Prevention and Control of Pollution) Act, 1974. The TAC discusses and deliberates on those applications received by the Board for grant of the consent to establish, consent to operate and authorization under the water Act, Air act and the rules framed under the Environmental Protection Act, 1986 (including the renewal application) from units & establishments and submit its recommendations to the Chairman through the Member Secretary of the Board. The TAC meets once in a week and the list of units presented before the Technical Advisory Committee (TAC) from April 2024 to March 2025 is annexed as **Annexure XVI.**

B. Knowledge sharing programme conducted during 2024-2025:

To impart knowledge to the industries and staff of GSPCB, Knowledge sharing sessions were conducted through mode of presentations/ demonstrations at the Auditorium of

the Goa State Pollution Control Board. The list of knowledge sharing programme from April 2024 to March 2025 is annexed as **Annexure XVII.**

C. Environmental Assessment (EA) of industrial units:

The Board has constituted Environmental Assessment Committee to conduct the environmental audit of the units. The list of units undergone environmental assessment from April 2024 to March 2025 is annexed as **Annexure XVIII.**

D. Information Technology Center (ITC)

As a matter of creating hand-on understanding of interventions in the field of decentralised sewage treatment / any other environment-related control measures among general public or visitors, the Board has invited participation for displaying their technology (in the form of brochure / working-model / prototype / pamphlet, etc.,) by allotting a suitable space in a room on ground floor at a nominal rental charges @rs. 10,000/- per month. Any person / environment enthusiast can avail the benefit of the said facility to acquaint with the latest technology and gent connected directly for any future engagement without the intervention of the Board.

E. Pilot-scale demo units to demonstrate decentralized method of domestic effluents

In continuation with an aim to facilitate and understand the process-methodology / working-mechanism of decentralised domestic sewage treatment, the Board, through the firm concerned, has installed one pilot-scale demo plants within the Board campus. And managed by M/s Tellus habitat, B'luru. Water-quality of the treated outlet is being monitored through Board laboratory with specific reference to CPCB-prescribed parameters including microbial pollution. In addition, the firm-concerned is also instructed to get the treated water tested through third-party NABL-accredited environmental laboratory.

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CHAPTER 7

ENVIRONMENTAL TRAINING

7.1 TRAINING / WORKSHOPS/ SEMINARS, ETC., ATTENDED BY BOARD OFFICIALS

During the year under report, the officials of the Board attended training programmes / workshops / seminars etc., organized by reputed Institutions. The details of the same are as follows:-

Scientific Section					
Sr. no.	**Name of the Officers/ Officials**	**Topic**	**Date**	**Place**	**Programme**
1.	Miss. Connie Fernandes, Sci 'C'	(SAPC Budgetary Analyses Meet/ Workshop) Invitation as Dignitary	19/04/2024	Goa	Workshop
2.	Mrs. Jenica Sequeira, Sci 'D' Mr. Ganpat Naik, Sci 'B'	Made in India Analytical Solutions	24/04/2024	Pune	Launch Event
3.	Mrs. Jenica Sequeira, Sci 'D' Mrs. Nandan Prabhudessai, AEE Mrs. Livia D'Silva, Sci 'B'	Sustainable Solutions to Water Management	23/04/2024	Goa	Seminar
4.	Mrs. Jenica Sequeira, Sci. D Mrs. Sahyadri Gurav, Sci. B	Advance Training Programme on Continuous Emission and Effluent Monitoring System	05/8/2024 to 09/8/24	Rajasthan	Training
5.	Mr. Sanjay Kankonkar, Sci. B Mrs. Joshna Mahale, Sci. Asst	Continuous Professional Development Training Programme on application of Bio-engineering Technologies for waster water Treatment in Nalas , Drains and Canals	07/08/2024 to 09/08/2024	Hyderabad	Training
6.	Mr. Sanjay Kankonkar, Sci. B Mrs. Joshna Mahale, Sci. Asst	Celebration of National Space Day 2024	20/08/2024	Goa	Workshop

7	Mrs. Sahyadri Gurav, Sci. B	Workshop on District Mineral Foundation (Trust)	04/08/2024	Goa	Workshop
8	Mr. Ravi Naik, Sci. Asst Mr. Samir Borkar, Sr. Lab Attendant	Air and Water Pollution Monitoring and Modelling using Software. Applications, CPCB	0801/2025 to 10/01/2025	Lucknow	Training

Admin Section					
Sr. No.	Name of the Officials	Topic	Date	Place	Programme
1	Mr. Hariesh Vernekar, Driver Mr. Vinayak Talankar, Driver	Life saving Techniques-Water sports operator and Powerboat Handling-Tiller revalidation Course	20/05/2024 to 23/05/2024	Goa	Training
2	Miss Priyanka Naik, Jr. Steno Mrs. Francisca Auria Lobo, LDC	Konkani language Training	18/11/2024 to 21/11/2024	Goa	Training
3	Mr. Cedric De Souza, UDC Mr. Derick Dias, LDC	Online System for the processing of Online Indenting	08/01/2025	Goa	Training
4	Miss Priyanka Naik, Jr. Steno Mrs. Francisca Auria Lobo, LDC	Typing in Devnagri	13/02/2025, 14/02/2025 and 17/05/2025	Goa	Training
Legal Section					
Sr. no.	Name of the Officials	Topic	Date	Place	Programme
1	Mrs. Natalia Dias, Law Officer	Administrative Vigilance and Prevention of Corruption Handling/ Security/ Investigation of Complaints/ Grievances having Vigilance angle	12/12/2024 to 14/12/2024	Port Blair	Training
2	Mrs. Natalia Dias, Law Officer	Right to Information Act for CPIOs and Appellate Authorities	12/12/2024 to 14/12/2024	Port Blair	Training

3	Mrs. Natalia Dias, Law Officer Mrs. Tulita Da Costa e Fernandes, Administrative Officer Mrs. Livia D'Silva, Sci.B Mr. Chaitanya Salgaonkar, Scientific Assistant Mr. Rohan Nagvenkar, Asst. Env. Engineer Mrs. Mitzi Da Silva, Head Clerk	Sevottam and the Goa (Rights of Citizens Time Bound Delivery of Public Service)Act, 2013	18/02/2025	Goa	Training
IT Section					
Sr. No.	**Name of the Officials**	**Topic**	**Date**	**Place**	**Programme**
1	Mrs. Indira Raut, Eng. Asst. Engineer (IT)	Best practices adopted under ease of doing business and regulatory-DPIIT	09/08/2024	Goa	
2	Mr. Pratik Chari, Network Engineer	State Level Awareness Workshop	23/9/2024 to 24/9/2024	Goa	Workshop
3	Mrs. Indira Raut, Asst. Engineer (IT)	Cyber Security tools & Security Audit at IEI Centre	06/11/2024 to 08/11/2024	Srinagar, J&K	Training
	Mr. Pratik Chari, Network Engineer	Cyber Security tools & Security Audit at IEI Centre	06/11/2024 to 08/11/2024	Srinagar, J&K	Training
4.	Mr. Rajendra Naik, Eng. Asst.	Cyber Forensic Tools & Investigation Process	09/11/2024 to 12/11/2024	Puri, Odisha	Training
5.	Mr.Rohan Naik, Network Engineer	IT Tools & Techniques for Office Administration	10/02/2024 to 14/02/2024		Training

Technical Section					
Sr. No.	**Name of the Officials**	**Topic**	**Date**	**Place**	
1	Mr. Pravin Faldessai, AEE Mr. Amit Shanbag, AEE	Regional Workshop on Containing Antibiotic Pollution from Manufacturing : Western region	08/08/2024		Workshop
2	Mr. Sherwin Da Costa, JEE Mr. Siddhant Dessai, JEE	Celebration of National Space Day 2024,	20/08/2024	Goa	Workshop
3	Mr. Rohan Nagvenkar, AEE Mrs. Sahyadri Gurav, Sci. B	Workshop on District Mineral Foundation (Trust)	04/09/2024	Goa	Workshop
4	Mr. Devesh Gholkar, Jr. Env.Engineer Mr. Prathamesh Dessai, Jr. Env. Engineer	Tools for Pollution Management in small and medium scale industries	26/11/2024 to 29/11/2024	Rajasthan	Training
5	Mrs. Nandan Prabhudessai, Asst. Env. Engineer. Mrs. Livia D'Silva, Sci. B MR. Keshav Fadke, Asst. Env. Engineer	Capacity Building Workshop on Best Available Techniques (BAT) to prevent and control Industrial Pollution	26/11/2024 to 27/11/2024	Gujarat	Workshop
6	Mr. Siddhant Dessai, Jr. Env. engineer	Management of Plastic Waste-Tyre and Battery Waste through EPR regime	07/1/2025 to 09/01/2025	Goa	Training
7	Mrs. Nandan Prabhudessai, Asst. Env. Engineer. Mrs. Livia D'Silva, Sci. B	Online Training Programme on EIA	14/01/2025 to 23/01/2025	Moodle Platform	
8	Mr. Siddhant Prabhudessai, Jr. Env. Engineer. Mr. Vijay Kansekar, Jr. Env. Engineer	Khazans of Goa	08/03/2025	Goa	Training

7.2. DEPUTATION IN THE BOARD

1. Vide Government Order No. DA/Admn/-3/2024-25/TR-50/46 dated 07/06/2024 of the Directorate of Accounts Smt. Pranjali P. Polle, Assistant Accounts Officer was posted as Assistant Accounts Officer of the Board.

Vide Government Order No. DA/Admn-II/10-26(Part)A/2021-2022/TR-576/108 dated 13/07/2021 of the Directorate of Accounts Shri. Jonathan James Alphonso was posted as Accountant of the Board. Further vide order no DA/Admn/10-20(24)/2024-25/140 dated 13/8/2024 his deputation term was extended upto 13/08/2024. ◆◆◆

Chapter 8

LEGAL MATTERS OF THE BOARD

SUPREME COURT OF INDIA VELLORE DISTRICT ENVIRONMENT MONITORING COMMITTEE ... VS THE DISTRICT COLLECTOR VELLORE ORDER 30 JANUARY, 2025

64. Right to life inherently includes the right to enjoy, pollution free environment, which are essential for the full enjoyment of life. If anything endangers or impairs the quality of life in derogation of laws, a citizen has the right to have recourse to Article 21 of the Constitution to address the pollution of environment which may be detrimental to the quality of life. This court has recognised the concept of 'right to healthy environment' as part of the 'right to life' under Article 21 and thereby has also recognised the 'right to clean drinking water' as a fundamental right. Infact, environmental rights, which encompass a group of collective rights, are now described as "third generation" rights. Therefore, the State, so as to sustain its claim of functioning for the welfare of its citizens, is bound to regulate water supply by safeguarding, maintaining and restoring the water bodies to protect the right to healthy water and prevent health hazards. This court has also laid down in many cases, that the States shall ensure that the water bodies are free from encroachments and steps must be taken to restore the water bodies.

8.1 ROLES AND RESPONSIBILITIES OF LEGAL SECTION

- Ensures that the Board is adequately represented before the Courts of law and Judicial forums and that the Advocates appointed by the Board are adequately briefed in individual matters.

- Ensures that all pleadings filed before the Courts of law and Judicial forums are drafted and vetted within the specified time frames set out by the Courts and that the same are filed before the Courts.

- Ensures that orders passed by the Courts are informed to the Board and that the directions passed by the Courts are complied with within the stipulated time periods.

- Submits Legal opinions/interpretations of Court Orders, Judgments, statutes of law as and when directed.

- Ensures that all legal correspondence issued by the Board including statutory directions are legally drafted and vetted prior to issue by the Board.

8.2 IMPLEMENTATION OF ACTS & RULES

- Water (Prevention and Control of Pollution) Act, 1974,
- Air (Prevention and Control of Pollution) Act, 1981
- Air (Prevention and Control of Pollution) (Manner of Holding Inquiry and Imposition of Penalty) Rules, 2024

- Air Pollution (Grant, Refusal or Cancellation of Consent) Guidelines, 2025 issued under the Air (Prevention and Control of Pollution) Act, 1981
- Environmental (Protection) Act 1986.
- Goa Water (Prevention & Control of Pollution) Rules
- Air (Prevention & Control of Pollution) Rules
- The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- The Bio-Medical Waste Management Rules, 2016.
- The Solid Waste Management Rules, 2016.
- The Construction and Demolition Waste Management Rules, 2016.
- The Plastic Waste Management Rules 2016
- E-Waste (Management) Rules, 2022
- The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- The Noise Pollution (Regulation and Control) Rules, 2000.
- Battery Waste Management Rules, 2022
- Notifications: Environment Impact Assessment Notification, 2006.
- The Water Purification System (Regulation of Use) Rules, 2023
- End-of-Life Vehicles) Rules, 2025

THE JAN VISHWAS (AMENDMENT OF PROVISIONS) ACT

Ministry Of Law and Justice issued **THE JAN VISHWAS (AMENDMENT OF PROVISIONS) ACT**, 2023 NO. 18 OF 2023 dated 11/08/2023.

Aim of the Act is to amend certain enactments for decriminalising and rationalising offences to further enhance trust-based governance for ease of living and doing business.

The fines and penalties are provided under various provisions in the enactments mentioned in the Schedule.

The Penalty/Fines/Prosecution sections are substituted with new sections.

1. **Item No 21 of the Act deals with Air Act (Prevention and Control of Pollution) Act 1981**
2. **Item No 24 of the Act deals with Environment (Protection) Act 1986**

8.3 BROAD ACTION THAT CAN BE INITIATED AGAINST A VIOLATOR BY THE GSPCB; IN THE EVENT OF VIOLATION OF THE PROVISIONS OF THE WATER ACT, AIR ACT, ENVIRONMENT (PROTECTION) ACT AND THE RULES FRAMED THEREUNDER;

- Issue of statutory directions under section 33(A) of the Water Act, 31(A) of the Air Act and Section 5 of the Environment (Protection) Act, as the case may be; for carrying out specific pollution control measures or for closure of the unit/establishment after complying with the principles of Natural Justice.

- Initiation of Criminal Proceedings under the Water Act, Air Act and the Environment (Protection) Act before Criminal Courts of Law.

- Imposition of Polluter Pays Penalty in terms of NGT directives and CPCB guidelines after detailed assessment and computation of the Penalty and after complying with the principles of Natural Justice.

8.4 REQUIREMENT OF CONSENT OF THE BOARD

No industry can run without valid consent to establish/operate under Air and Water Act and any operation carried out without such lawful consents is deleterious to the environment in as much as it frustrates the regulatory regime of law to prevent and control environmental pollution.

Section 21 of the Air Act and Section 25 of the Water Act places restrictions, both on establishment and operation of any industrial plant without previous consent of the Board. The legislative intent behind this provision would lead to decipher two concepts--- one, the consent for the purpose of establishing an industrial plant while the other for operation of that plant. The purpose of this section is to ensure that when a unit or an industrial plant is given consent to operate, the unit ought to have satisfied all the conditions stated in the order of consent to establish `would have installed the requisite effluent treatment plants and other ant-pollution devices to ensure that it causes no pollution. It necessary implies that this is the rule

Renewal of Consent not to be granted unless all adequate measures are taken to control pollution failing which action as per section 31(A) of Air and section 33(A) of Water may be initiated against the owner. It is settle law that grant of renewal is a fresh grant though it breathes life into the operation of the previous consent or license granted as per existing appropriate provisions of law/Act, rules or orders acts intra vires . The right to get renewal is not a vested right but a privilege subject to fulfilment of the conditions precedent enumerated under the Act. The time period for compliance is also not specified.

Allowing Operation of any industry without complying with air and water pollution control measures solely on the economic aspect does not justify the continuance. Balancing the vital interests of the vast majority of citizens against the commercial interests of few the balance must heavily tilt in favour of citizens in general. Balance must overwhelmingly prioritize the harmful effects of the hazardous air on present and future generations.

Environment is wealth which needs protection from being plundered by law violators, for their monetary interests, by adequate monitoring and stringent vigilance. Its scientific management, including enforcement of polluter pays principle, requires study of level of pollution and contributors thereto and cost of restoration to be recovered by an efficient machinery. Such steps will advance the environmental rule of law and lead to sustainable development. The 'Polluter Pays' principle requires compensation to be recovered to meet the cost of remedying the adverse impact of pollution. Governance of such laws can be held to be satisfactory if the magnitude of punishment of law violators corresponds to the extent of violation of law and the compensation recovered is adequate to meet the cost of damage.

The issue of granting consent to operate to the units does not bestow any legal right to the units. The units are required to seek and obtain the requisite clearances/licences/permits/NOCs required under statutory provisions stipulated under various laws, Acts and Rules of Central/State Government/Court Order etc before taking any effective steps to implement the project. Incase the units has not complied with the required permissions before taking any effective steps to implement the project the authorities are free to initiate action under the relevant provision of law.

8.5 LITIGATION PROFILE OF THE GSPCB:-

The GSPCB is party Respondent in a number of cases before various Courts and Judicial Forums including the Supreme Court of India, High Court of Bombay at Goa, National Green Tribunal at New Delhi and Pune, Administrative Tribunal at Panaji, District and Sessions Court, JMFC, Human Rights Commission.

The GSPCB engages Advocates to appear on its behalf before various Courts of law and Judicial forums and defend its interests.

The GSPCB has at its 151st Meeting; reconstituted the panel of Advocates who will appear on its behalf before various Courts of law and Judicial forums and defend its interests.

The Member Secretary of the GSPCB in terms of the powers conferred under the Goa Water and Air Rules 2021 appoints Advocates from the Panel to appear on behalf of the Board in individual cases.

Terms and Conditions of the appointment of Advocates of the Board as well as Fees to be paid to the Boards Advocates are as specified in the minutes of the 151st Board meeting.

The Board is required to file pleadings by way of Affidavits in reply etc. before these Courts/ Forums and is occasionally also required to prefer Petitions/Applications/Appeals etc. before these forums as and when required.

8.6 IMPORTANT COURT MATTERS PERTAINING TO GSPCB DURING THE YEAR 2024-25

1. Cases before the Supreme Court

Sr. No.	Case No.	Case Name
1	WP(Civil) no. 728/2015	Arjun Gopal&ors V/s Union of India &ors
2	WP(Civil) no. 13029/1985	M.C.Mehta V/s. Union of India &ors.-
3	SLA (Civil) no. 3739/2020	Ganesh Benzoplast Limited V/s. Mormugao Port Trust/Board of Trustees &ors
4	WP(C) no. 369 of 2020	M. Kaviya&ors V/s. Union of India &ors
5	Civil Appeal no-4983/2021	Bainguinim Citizens Forum v/s GWMC and ors
6	Civil Appeal No. 1926/2022	K.S Radhakrishnan V/s Union of India &Ors.
7	Writ Petition(Civil) No. 1062/2023	InduVerma V/s. Union of India &ors.
8	IA no. 276446 of 2024 and IA no. 276838 of 2024 and IA no. 276801 of 2024 and IA no. 276802 of 2024 in WP (Civil) no. 435 of 2012	Goa Foundation V/s. Union of India & ors.

2. Cases before the High Court of Bombay at Goa

Sr. No.	Case No.	Case Title
1	PILWP/22/2021	Antonio Alvares v/s State of Goa and ors
2	CP/12/2023	Mr. SagardeepSirsaikar V/s. State of Goa and Ors.
3	PILWP no.36/2024	Geeta Pandurang Ganoji&ors V/s. State of Goa &ors.
4	PILWP 28/2019	Arturo Carlos D'souza v/s. State of Goa, &ors
5	PIL WP No. 779/2022(f) 28/2022	The Goa Foundation V/s Directorate of Mines & Geology &Ors.(Pissurlem)

6	PILSuo Motu No.1/2022 ----	V/s. State of Goa Thru Its Chief Secretary and 2 Ors.
7	PILWP No.1/2024. MCA No.1254/2024 in PILWP No.1/2024 (MCA No.____/2024 in PILWP1 /2024	Mr. Sudesh Mayekar and anrs V/s. State of Goa and Ors Mr.TriveshAzgaonkar V/s. State of Goa and Ors Sudesh Mayekar &Anr.V/s. State of Goa and Ors.
8	PILSM No.2/2022	High Court on his own motion V/s, State of Goa and ors.
9	WP No.312/2022.	Buddho Arjun Gaonkar V/s. The State of Goa
10	WP/881/2017	Pravir Phadtev/s State of Goa and ors.
11	PILSM/3/2023	Ravi Harmalkar and Anr. V/s. State of Goa and Ors.
12	PILWP/15/2011	Colva Civic and Consumer Forum V/s. State of Goa and Ors.
13	WP No.176/2024	Angelo Mark Fernandes V/s. State of Goa and Others
14	PILWP No.16/2024.	Piyush Panchal & Ors. V/s. State of Goa
15	PILWP No.775/2024(F)	Mr. Christus C. Lopes and Ors. V/s. State of Goa and Ors.
16	PILWP No.13/2024 MCA/2282/2024	Calangute Constituency Forum thr. Its President Premanand Duikar V/s. The State of Goa
17	PILWP No.1035/2024 (F)	The Goa Foundation V/s. The Chief Wildlife Warden and Ors,
18	PILWP/24/2024.	Kamlakar DattaraySadhale and 3 ors V/s. The State of Goa and Ors.
19	PILWP No.877/2024(F)	Mr. Chahit Bansal and Anr v/s. State of Goa and Others
20	WP no. 1508/2024(F) MCA No.____/2024 In WP No.1508/2024(F)	Ryago Homes Pvt. Ltd V/s. The State of Goa & 8 ors Mrs. Nilam Damodar Banaulikar, Anjuna In the matter of Ryago Homes Pvt. Ltd. V/s. The State of Goa
21	WP No.411/2024	Vishal Bhamare V/s State of Goa
22	WP No.412/2024	Jawish Lawrence Monis V/s. The State of Goa and Ors.
23	WP/471/2024	Mrs. Judith Rodrigues V/s. State of Goa and Ors.

24	PILWP No/31/2024	Khazan Society Of Goa And Anr. V/S. State Of Goa And Ors.
25	MCA No. 354/2017 in W.P. No. 1/2008.	Villagers of the Shrigao Villagers V/s. Sirigao Nagarik Sanghatana Sirigao & Ors.
26	PILWP NO.39/2018	Kashinath Jairam Shetye V/S. The State Of Goa And ors.
27	PILWP NO.2500 /2024 (F) MCA 2998/2024 in PILWP46/2024 Vinal DiukarV/s.State of Goa & ors	Vinal Diukar V/s. State of Goa & ors
28	PILWP (F) No. 1991/2024	Nelson Mascarenhas & 2 Ors V/s State of Goa & 5 Ors.
29	PIL WP no. 17/2018	DhatwadaUsgao Citizens Forum &Anr. V/s. Village Panchayat of Usgao-Ganjem&ors
30	WP 551/2024	Green Space (NGO) V/s. State of Goa and Ors.
31	PILWP No.2866 (F)/2024	Mr. Bharat Narayan Bagkar Versus State of Goa and Ors
32	Writ Petition No.781/2024	David D'souza V/s. State
33	PIL No.__/2024	Mahesh Sadanand Prabhudessai & Ors. V/s. State of Goa and Ors.
34	PILWP 2656/2024(F)	Moses Pinto V/s. Ministry of Road Transport
35	PIL WP NO.36/2025(F)	Aman Gupta V/s. State of Goa and Ors.
36	CRIMINAL WRIT PETITION NO.34 OF 2022	GSPCB V/s. Global Ispat Pvt. Ltd.
37	WP No. /2025	M/s. Wayne Constantine Pereira &anr. V/s. The State of Goa and 9 Ors.
38	Writ Petition No.-/2025	Jeanette Fernandes Vs The State Of Goa & Other
39	WP no. 547/2025(F)	Nadine Marie Lemos &ors V/s. The State of Goa & ors.
40	WP.No. 751/2024	Antonio Jose Joaquim De Souza V/s. State of Goa and Ors.

3. Cases pending before the National Green Tribunal

Sr. No.	CASE NAME	CASE NO
1	OA/73/2021	Brackish water Research Centre v/s Gujrat PCB and ors
2	OA/42/2021	Royala Fernandes v/s State of Goa and ors
3	Executive Application No.01/2023 (WZ) in OA No.16/2016 (WZ)	Salu D'souza And Anr. V/S. Gczma And Ors.
4	Appeal No.15/2023 (WZ)	Federation of Rainbow Warriors and Ors. V/s. Union of India and Ors.

5	Appeal no.16/2023(wz)	Old cross fishing canoe cooperative society ltd and ors v/s. M/s. south west port ltd and ors.
6	WZ (IA No.184/2023 in Appeal No.27/2023	Spacebound Web Labs Pvt. Ltd. through its authorised officer v/s. GSPCB through Member Secretary
7	EA No.04/2024 in OA No.512/2018	Shailesh Singh V/s. State of Uttar Pradesh & Ors.
8	Original Application No.80 of 2024 (WZ)	Scheduled Tribe Association & Ors. V/s. Goa State Pollution Control Board & Ors
9	Appeal No.73 of 2024 (WZ)	Swapnesh Sherlekar& Ors. V/s. MoEF and CC and Ors.
10	OA/200/2023	Green Space V/s. The State of Goa and ors
11	OA No.497/2024	News item titled, " Impact of Pharmaceutical toxicity on the environment and its regulatory aspects" appearing in current science dated 25/2/2024.
12	OA/159/2021	Kankana Das V/s. Union of India and Ors.
13	IA No.167/2024 in Appeal no.146/2024 (WZ)	Federation of Rainbow Warriors V/s. Union of India and Ors.
14	OA No.730/2024 26/5/2024"	News item titled " Untreated effluents cause widespread fish mortality at Velsao bay rivulet" appearing in O Herald dated
15	OA No.141/2024 (WZ) IA No.217/2024(WZ)	Prakash Agrawal V/s. Mathias Construction Pvt. Ltd. and Ors
16	Appeal No.167/2024 (WZ)	Vijay Ravalnath Gaonkar Vs. Rajaram Bandekar (Sirigao) Mines Pvt. Ltd. and Ors.
17	OA no. 222/2024(WZ) (earlier OA no. 1028/2024)	Galina Babaiteva V/s. State of Goa
	Appeal no. 15/2025(WZ)	Vijay Ravalnath Gaonkar V/s. Salgaocar Shipping Co. Pvt. Ltd. & ors.
	Appeal no. 30/2024(WZ) –	Ramesh Sazo Gauns V/s. Union of India & ors.
	OA No. 212/2023 (WZ) Earlier LP No. 67/2023 (WZ)	Villagers of Cola &Agonda V/s. Member Secretary, GSPCB

4. **Cases pending before the Lower Courts**

Sr No.	CASE NO	CASE NAME
1	Cr Case No. 190/OA /2015/A	Vasco 'A' Shri. Levinson J. Martins V/s. M/s. UmiyaHabiat
2	Cri. Case no. 181/OA/2016/B	Margao 'B' GSPCB v/s M/s. Sua Industries

3	IPC26/2023	Mapusa F' GSPCB v/s. Spacebound Web labs
4	Civil Suit No. 45/2019PDJ,	Margao Maria Fernandes v/s. State of Goa
5	Civil Suit No. 22/2018	District Court, Ponda Mrs Anjali Anand v/s. Govt of Goa
6	Misc/Ap/27/2023/ Cond/Water IN Poll Appeal/ Un-Reg/2023/Water	Administrative Tribunal Caetano Monteiro v/s. M/s. Harison
7	Misc/Ap/28/2023/Cond/Air IN Poll Appeal/Un-Reg/2023/Air	Administrative Tribunal Caetano Monteiro v/s. M/s. Harison
8	Poll Apl No. 3/2023/Water	Administrative Tribunal Govind Kusta Gaonkar v/s. GSPCB
9	Poll Apl No. 4/2023/Air	Administrative Tribunal Govind Kusta Gaonkar v/s. GSPCB
10	Poll Apl No. 01/2024/Water	Administrative Tribunal Sunmaria Guest House v/s. GSPCB
11	Poll Apl No. 02/2024/Air	Administrative Tribunal Sunmaria Guest House v/s. GSPCB
12	Misc/ap/40/2024/Cond/Ap/Air IN Poll Apl No. Un reg/2024/Air	Administrative Tribunal Geeta Pandurang Ganoji v/s. GSPCB &anr.
13	MAM/BICH/MINE/03/2022	Bicholim Mamlatdar Shamsundar Naik v/s Harish Rajani &ors.
14	132/2024	Human Rights Commission Umesh Chari v/s GSPCB
15	Poll Apl. 1/2023/Water	Administrative Tribunal V. P. of Kaley v/s GSPCB

16	Poll Apl. 2/2023/Air	Administrative Tribunal V. P. of Kaley v/s GSPCB
17	Poll Apl. 7/2023/Water	Administrative Tribunal Desa Engineering v/s GSPCB
18	Poll Apl. 8/2023/Air	Administrative Tribunal Desa Engineering v/s GSPCB
19	Misc/ap/53/2024 Water	Administrative Tribunal M/s. Belchick Shop v/s GSPCB
20	Misc/ap/54/2024Air	Administrative Tribunal M/s. Belchick Shop v/s GSPCB
21	Misc/ap/55/2024Water	Administrative Tribunal M/s. Halal Chicken v/s GSPCB
22	Misc/ap/56/2024/Air	Administrative Tribunal M/s. Halal Chicken v/s GSPCB
23	Misc/ap/57/2024Water	Administrative Tribunal M/s. Cucock Shop v/s GSPCB
24	Misc/ap/58/2024Air	Administrative Tribunal M/s. Cucock Shop v/s GSPCB
25	AOA No. 663/2017	JMFC MAPUSA GSPCB v/s Curlies Guest House
26	Cr. No. 623/2015	JMFC MAPUSA GSPCB v/s Everilda D'Mello
27	2/447/GCSCST/2021	ST SC Comm Rohidas Gaude v/s Rajan Kudchadkar
28	Case No. 12/18/2018	Dy Coll Vasco State v/s Sujit Satoskar
29	Poll/Apl/5/2024Air	Administrative Tribunal Joshua Foods v/s GSPCB
30	Poll/Apl/6/2024/Water	Administrative Tribunal Joshua Foods v/s GSPCB
31	Pr. No. 135/2024	Human Rights Pushpa Naik v/s Dr. of Education
32	Pr. No. 157/2024	Human Rights Prashant Jain v/s Health Officer
33	CS42/2024	FTC-2, Panaji Dayanand Kawlekar V/s. Vedanta & Ors.
34	Appeal no. /2024	Patrick Savio Almeida V/s. GSPCB.
35	Appeal no. /2024	Patrick Savio Almeida V/s. GSPCB.
36	Appeal no. /2024	M/s. Marikety Foods Pvt. Ltd. V/s. GSPCB.

37	Appeal no. /2024	M/s. Noah V/s. GSPCB
38	Appeal no. /2024	M/s. Diaz Pool Club V/s. GSPCB.
39	Administrative Tribunal Matter Pollution Appeal no. 03/2025/ Water Pollution Appeal no. 04/2025/ Air	Global Ispat Pvt. Ltd. V/s. Goa State Pollution Control Board
40	Pollution Appeal no. 06/2025/ Water Pollution Appeal no. 05/2025/ Air	Shri Balaji Rolling Pvt. Ltd. V/s. Goa State Pollution Control Board

8.7 RIGHT TO INFORMATION ACT 2005 (RTI ACT)

The RTI Act provides access to all information *that is available andexisting*. This is clear from a combined reading of section 3 and thedefinitions of 'information' and 'right to information' under clauses (f)and (j) of section 2 of the Act. If a public authority has any information inthe form of data or analysed data, or abstracts, or statistics, an applicantmay access such information, subject to the exemptions in section 8 of theAct. But where the information sought is not a part of the record of apublic authority, and where such information is not required to bemaintained under any law or the rules or regulations of the publicauthority, the Act does not cast an obligation upon the public authority, tocollect or collate such non-available information and then furnish it to anapplicant."

A public authority is also not required to furnish information which require drawing of inferences and/or making of assumptions or reasons or answering of queries. It is also not required to provide 'advice' or 'opinion' to an applicant, nor required to obtain and furnish any 'opinion' or 'advice' to an applicant. The reference to 'opinion' or 'advice' in the definition of 'information' in section 2(f) of the Act, only refers to such material available in the records of the public authority. Many public authorities have, as a public relation exercise, provide advice, guidance and opinion to the citizens. But that is purely voluntary and should not be confused with any obligation under the RTI Act.

The Act should not be allowed to be **MISUSED OR ABUSED**, to become a tool to obstruct the national development and integration, or to destroy the peace, tranquillity and harmony among its citizens. Nor should it be converted into a tool of oppression or intimidation of honest officials striving to do their duty. The nation does not want a scenario where 75% of the staff of public authorities spends 75% of their time in collecting and furnishing information to applicants instead of discharging their regular duties. The threat of penalties under the RTI Act and the pressure of the authorities under the RTI Act should not lead to employees of a public authorities prioritising 'information furnishing', at the cost of their normal and regular duties.

The clause of '**LIFE OR LIBERTY'**can be invoked to obtain information within 48 hours of filing the RTI application. The 'Life or Liberty' clause can be applied only in cases where there is an imminent danger to the life or liberty of a person and the non-supply of the information may either lead to death or grievous injury to the concerned person. Such imminent danger or the fact that the disclosure of the information would obviate the danger to the life of liberty of an individual has to be demonstrably proven. Merely the fact that the disclosure of information may assist an appellant to lead a better life is not sufficient for invoking the proviso of Section 7(1).

"Personal Information are passport details, copies of birth certificate and copies of records of educational qualification, action taken against employees, confidential reports are personal information, The performance of an employee/officer in an organization is primarily a matter between the employee and the employer and normally those aspects are governed by the service rules which fall under the expression "personal information", the disclosure of which has no relationship to any public activity or public interest. On the other hand, the disclosure of which would cause unwarranted invasion of privacy of that individual, if the Public Information Officer or the Appellate Authority is satisfied that the larger public interest justifies the disclosure of such information, appropriate orders could be passed but the petitioner cannot claim those details as a matter of right."

The Goa State Pollution Control Board has appointed the following officials as First Appellate Authority, Public Information Officer and Assistant Public Information Officer as per the RTI Act 2005.

1)	• **Member Secretary**	• **First Appellate Authority**
2)	• **Law Officer**	• **Public Information Officer**
3)	• **Senior Law Officer**	• **Assistant Public Information Officer**

During the Year 2024 the Board has received**302 number**of Applications for request of information.

05 Appeals were received as per the provisions of the Act and disposed of in time bound manner.

8.8 THE SEXUAL HARASSMENT OF WOMEN AT WORKPLACE (PREVENTION, PROHIBITION AND REDRESSAL) ACT 2013

Constitution of the Internal Complaints Committee

As per Section 4(1) of the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 ("the Act"), the Internal Complaints Committee (referred to as "Complaints Committee" hereafter) is to be set up at every workplace. As per Section 4(2), this will be headed by a woman and at least half of its members should be women. In case a woman officer of sufficiently senior level is not available in a particular office, an officer from another office may be so appointed. To prevent the possibility of any undue pressure or influence from senior levels, such Complaints Committees should involve a third party, either an NGO or some other body which is familiar with the issue of sexual harassment. In terms of section 22 of the Act, the employer shall include the number of cases filed, if any, and their disposal under the Act, in the annual report of his organization.

The complaint Committee is constituted and is functioning vide Office Order No. 1/86/13-PCB/Admin/16473.

NO COMPLAINTS ARE REGISTERED for the Year 2024-25

ENVIRONMENTAL PUBLIC HEARING

As per the Environment Impact Assessment Notification (EIA) dated 14/09/2006, issued by the Ministry of Environment, Forests and Climate Change, Government of India, the Goa State Pollution Control Board conducted Environmental Public Hearing of the following projects in the year 2024-2025;

Sr. No.	Name of Project Proponent	Project Details
1	M/s. Rajaram Bandekar (Sirigao) Mines Pvt. Ltd."	Block III Monte De Sirigao Mineral Block with area of 95.6712 Ha Located in SirigaoBicholim Taluka, North Goa District, production of 0.5 MTPA of iron ore M/s. Rajaram Bandekar (Sirigao) Mines Pvt. Ltd."
2	M/s. Fomento Resources Private Limited	Block V- Advalpale-Thivim Mineral Block area 36.2202 Ha Located at Village AdwalpaleBicholim Taluka and Tivim Bardez Taluka, North Goa District production of 0.3 MTPA of iron ore by M/s. Fomento Resources Private Limited
3	M/s. Salgaocar Shipping Co.Pvt. Ltd	Block II Sirigao Mayem Mineral Block area of 171.2472 Ha. located in Sirigao and Mayem Bicholim Taluka of North Goa District for production of 1.0 MTPA of Iron Ore by M/s. Salgaocar Shipping Co.Pvt. Ltd."
4	M/s. Kai International Pvt. Ltd	Block VIII- ThivimPirna, Mineral Block area of 72.055 Ha located at Pirna and Thivim of Bardez Taluka, North Goa District production of 0.33 MTPA of Iron Ore By M/s. Kai International Pvt. Ltd
5	M/s. JSW Steel Limited	Block VI CudnemCormolem Mineral Block area of 38.5143 Ha located at Cudnem Village Bicholim Taluka North Goa District, Production of 0.50 MTPA of Iron Ore by M/s. JSW Steel Limited."
6	M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Pvt Ltd)	Wet Beneficiation Plant of M/s. Greater Ferromet (Division of Sociedade De Fomento Industrial Private Limited) for Enhancement of Iron Ore Wet Beneficiation Plant from 0.64 Million TPA (0.914 Million TPA to 0.674 Million TPA (1.0 Million TPA located at survey no.9/1 (Part) and 10/1 (Part) of Santona Village, Sanguem Taluka, South Goa District Goa."
7	M/s. Vedanta Limited	Block VII Cudnem area 75.3004 Ha Located in Cudnem Village in Bicholim Taluka and Sonus Vonvoliem and Onda village in Sattari Taluka, North Goa District, for the production of 0.5 MTPA of Iron Ore by M/s. Vedanta Limited
8	M/s. Prafulla R. Hede.	Iron Ore Beneficiation Plant of 0.95 MTPA capacity over an extent of 6.63 HA located in Plot No.29/2, Collem Village, Dharbandora-Sanguem Taluka, South Goa by M/s. Prafulla R. Hede.
9	M/s. Fomento Resources Private Limited	Block IV-Kalay Mineral Block area of 152.5073 ha, located at Village SantonaSanguem Taluka, South District, production of 0.75 MTPA of Iron Ore by M/s. Fomento Resources Private Limited.

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CHAPTER 9

FINANCE AND ACCOUNTS OF THE BOARD

9.1 STATUS OF AUDITING OF ACCOUNTS OF THE BOARD

As per sub-sections 2 & 3 of section 40 of the water (Prevention and Control of Pollution) Act, 1974, the accounts of the Board are to be audited by an Auditor duly qualified to act as an Auditor of Companies under section 226 of the Companies Act, 1956. The said Auditor is to be appointed by the State Government on the advice of Comptroller & Auditor General of India (CAG).

Auditing of the Board accounts for the financial year 2018-19 and 2019-20 has been completed. The Audit of accounts of the F.Y. 2020-21, 2021-22, 2022-23 and 2024-25 are in process of being completed.

9.2 INCOME, EXPENDITURE AND FUNDING

The income and expenditure account of the Board for the year ended 31st March, 2025 is as per table below:

Receipt and Payment Statement for the year 2024-2025			
Receipts	**Amount**	**Payments**	**Amount**
Lab Analysis and Ambient Monitoring	1,53,83,995.00	Advertisement & Publicity	39,33,288.00
Consent Fees	24,77,78,249.00	Auditors Charges	27,92,628.00
RTI Fees	53,121.00	Building Maintenance	1,86,22,273.00
Bio Medical Fees	24,25,000.00	Electricity and Water Supply	15,16,329.00
Waste collection Fees	23,82,000.00	Salary	15,83,43,914.00
Casinos	86,06,000.00	Hospitality Expenses	14,97,980.00
E- Tendering Application	52,000.00	International Conference	6,59,020.00
Other Receipts	59,452.00	Misc Expenses	29,86,984.26
Fines & Penalty	39,27,916.00	Office Exps and Assets	18,22,869.00
Material Recover Facility (MRF)	15,000.00	Petrol and Diesel	17,27,065.00
Rent of Office Premises	21,52,557.00	Postage	3,00,163.00
Public Hearing	6,29,323.70	Printing and Stationery	14,21,445.00
Knowledge Sharing Presentation Fee	1,70,000.00	Honorarium	9,98,037.00

Forfeiture of Bank Guarantee	10,37,000.00	Repairs and Maintenance of Vehicle	8,47,136.00
Interest received	2,70,14,356.00	Staff Cars and Office Vehicles	1,40,050.00
Booking of Conference Hall	2,000.00	Telephone Charges	1,29,660.00
Noise Fees	1,13,34,964.61	Training of Staff	2,58,778.00
International Conference Income(IESSG)	10,000.00	Travel Expenses	13,34,249.00
Environment Assessment	68,85,267.00	Vehicle Hire Charges	33,60,571.00
		Wages	80,97,277.00
		Payment for Professional and Other Special charges	43,60,288.00
		AMC for IT Equipment	7,11,379.00
		IT & Software Expenses	6,58,609.00
		Computers and Peripherals	2,42,432.00
		Laboratory Expenses	7,85,16,375.00
		NABL Expenditure	5,18,249.00
		NAMP Outsourced	1,07,61,100.00
		NWAMP Outsourced	16,95,121.00
		Capital Expenditure for Laboratory	1,48,54,670.00
		World Environment Day Expenses	2,95,000.00
		Receipts over Expenditure	65,15,262.05
	32,99,18,201.31		**32,99,18,201.31**

***Unaudited**

CHAPTER 10

ANY OTHER IMPORTANT MATTERS DEALT WITH BY THE BOARD

10.1 IMPLEMENTATION OF HAZARDOUS AND OTHER WASTE (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016, AS AMENDED, THEREAFTER.

The Hazardous Waste (Management & Handling) Rules were notified by the Ministry of Environment & Forests in the year 1989 under the provisions of the Environment Protection Act, 1986. Later the Rules were amended in the years 2000, 2003, 2008, 2016, 2018 and 2020and subsequently, they were modified as the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016, as amended thereafter.

The Board grants authorizations to industries generating and handling hazardous wastes. The Goa State Pollution Control Board has identified 1797 industrial units generating hazardous waste in Goa upto the period of April 2021-2022. Thehazardouswastegenerated in the State of Goafor the year 2023-2024,is as follows: Landfillable (6021.12MT), Incinerable (507.944MT), Recyclable (1923.29MT), Utilizable (41910.23MT).

10.2 IMPLEMENTATION OF BIO-MEDICAL WASTE MANAGEMENT RULES, 2016 AS AMENDED THEREAFTER.

For the purpose of implementation of the Bio-Medical Waste Management Rules 2016, HCFs have been classified as per bedded and non bedded.

Bedded – 107nos

Non bedded –761nos

For the year 2023, 341 Health Care Units were granted authorizations under the Bio-Medical Waste Management Rules, 2016, as amended, 2018.

10.3 NOISE POLLUTION (REGULATION & CONTROL) RULES, 2000 AS AMENDED THEREAFTER.

The Board conducts monitoring of noise levels whenever any specific complaints of noise pollution are received and action is taken accordingly. In pursuance of clause (c) of rule 2 of the Noise Pollution Regulation & Control Rules, 2000, the Government of Goa vide Notification No. 2/51/2000 –II D (G) Vol I has designated (1) District Magistrates (2) Director General of Police (3) Deputy Collector and Sub-Divisional Magistrates (4) Superintendent of Police and Sub-Divisional Police Officers as 'authority' for the maintenance of ambient air quality standards in respect of noise under the said rules, with effect from 21.09.2000. In view of this, the Board forwards to the Competent Authority all the reports of Noise Level Monitoring conducted by the Board for necessary action.

10.4 IMPLEMENTATION OF SOLID WASTES MANAGEMENT RULES, 2016, AS AMENDED THEREAFTER.

The Board issues an authorization to all the Local Bodies under the provisions of Solid Waste Management Rules 2016. The authorizations have been issued independently for specific purpose to the local Bodies.

As per the Annual Report for the year 2023-24 submitted to the Central Pollution Control Board, out of 13 Municipal Councils and 1 Municipal Corporation; 1 Municipal Corporation and 11 Municipal council has installed garbage treatment plant is in operation.

10.5 IMPLEMENTATION OF PLASTICS WASTE (MANAGEMENT & HANDLING) RULES, 2016 AS AMENDED, THEREAFTER.

There are Forty-Fiveunitsinvolvedinmanufactureofplasticbags and containersintheState. The 45 units haveobtained consent.

The Government of Goa through the High Level Task Force (HLTF) constituted to provide directions and implement various measures as announced in the Budget Speech, 2012-13, towards resolving the solid waste management problems affecting the State of Goa has taken a decision to phase out the plastic from domestic use.

Accordingly the Government has decided to strictly implement banning the manufacturing, sale and use of the plastic having thickness less than 50 microns and bags which do not have the name of manufacturer, thickness and registration number printed on them as per the provisions of the Plastic Rules 2010 and Goa Non Biodegradable Garbage (Control) Act, 1996.

Further as per Plastic Waste Management rules, 2016 as amended in 2021

The manufacture, import, stocking, distribution, sale and use of following single- use plastic commodities shall be prohibited from 1st January, 2022: Ear buds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice-cream sticks, polystyrene [Thermocol] for decoration.

The manufacture, import, stocking, distribution, sale and use of following single-use plastic commodities shall be prohibited from 1st July, 2022:

Single-use plastic (including polystyrene and expanded polystyrene) items: plates, cups, glasses, cutlery such as forks, spoons, knives, straw, trays, wrapping/packing films around sweet boxes; invitation cards; and cigarette packets, plastic/PVC banners less than 100 micron, stirrers. ii. the above provision shall not apply to commodities (including carry bags) made ofcompostable plastic material.

Board has issued directions to Municipal Administration, Panchayats, Collectors to ensure implementation of the rules. Also Public notices and awareness through stakeholder meetings is carried out by the Board.

10.6 IMPLEMENTATION OF BATTERIES (MANAGEMENT AND HANDLING) RULES, 2022, AS AMENDED THEREAFTER.

There is one unit who are involved in manufactures/assembling/pre-conditioners of lead acid battery within the state of Goa. Under the Extended Producers Responsibility (EPR) provision, all

refurbishers/recyclers shall register with the State Pollution Control Board through the online portal. Bulk Consumers shall ensure that Waste Battery are disposed off in an environment friendly manner by giving it to an entityengaged in collection or refurbishment or recycling. However, there are no battery waste recycler/refurbisher in the State of Goa

10.7 IMPLEMENTATION OF E-WASTES (MANAGEMENT) RULES, 2022, AS AMENDED THEREAFTER.

The computer market in the State has been increasing due to lot of commercial development and IT related activities. The State is emerging with a large middle class group who are willing to buy PC's. A large chunk of demand is still met by Assemblers who compete primarily on low cost advantage.

PC usage increases with the increase of the income level and education level of people. Majority of obsolete PC's are diverted to the grey markets, where in the non functional parts are changed and fixed with the new parts in PC's and further sold back to customers and remaining miscellaneous scraps are sold to scrap-dealers and recyclers.

There are no recyclers in the State specially doing recycling for obsolete PC's. Existing E-waste handling practices are not expected to manage future E-waste generation thus formal recycling center is needed for E-waste collection, segregation, dismantling and recycling of the material. There is a lack of awareness in public regarding E-waste handling, treatment and disposal.

Presently, 5 units are registered with the Board for collection and dismantling of E-waste from the State of Goa, which is then sent to the recyclers registered on CPCB Portal for recycling. Also the Board has granted authorization for one unit for dismantling of E-waste

10.8. IMPLEMENTATION OF CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT RULES, 2016, AS AMENDED THEREAFTER.

The State government has handed over land to Goa Waste Management Corporation (GWMC) in survey no. 146/2, 146/3, 146/4, 148/2, 148/6 and 148/7 of Village Curchirem of Bicholim Taluka, for setting up C & D Waste Management Facility of 500 TPD capacity. The Board has granted authorization to Goa Waste Management Corporation (GWMC) for temporary storage of C & D waste at the said site.Meanwhile GWMC has also initiated process for identifying an alternate land for C&D facility.

Further, Collector North Goa has notified an abandoned laterite quarry in Tuem Village for deposition C&D waste for backfilling and subsequently deposition of waste by various departments has already started. Since commencement upto 31/03/2023 approx. 3000 cubic meter of C&D waste has been backfilled in abandoned quarry at Tuem. The Board has granted authorization to The Director of Mines & Geology, Panaji for backfilling of abandoned laterite stone quarry with C & D Waste (inert) in Sy. No. 119/6 to 119/18 & 119/35 to 119/37 of Village Tuem, Pernem Goa.

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CHAPTER 11

MAJOR ACCOMPLISHMENTS OF THE BOARD DURING THE FINANCIAL YEAR 2024-25

M/s Energy Desk Pvt. Ltd., Pune., – Mr. Mandar Velde, CEO made a detailed presentation on "Innovative and Energy efficient Solutions". He also demonstrated these gadgets towards effective utilisation of water / energy / fuel-efficiency **on 12th April 2024.**

A. **M/s Arvis Environment Technologies LLP –** Mr. Bharath Vetriivel, CoFounder& CEO made a presentation on "Design, Development, Manufacturing & Supply of Food-waste treatment System (CHUGG)". The firm is incubated with FiiRE, Goa and has patented the system.

B. **M/s SAAF Water –** Mr. Harishcnadra Bhandari, made a presentation on "Water-quality, quantity and flow based applications using AI-IoT based water intelligence platform". The firm is a Start-up initiatives from Goa and is further undertaking research-based activities to address parameter-specific solutions.

Chairman, GSPCB attended a National Conference on "Role of EPR in

The GSPCB recently held a meeting with executive council officials of the Verna Industrial Association towards ensuring effective compliance to provisions of the Hazardous Waste and Bio Medical waste Rules

Member Secretary, GSPCB attended in a panel discussion organised by Consulate General of Finland at Mumbai on a topic Sustainable Solutions to Water Management and appraised initiatives of the State of Goa.

Visit of Mr. LzVarte official of Mizoram-PCB on a Cycle tour of India as a part of Mission LiFE initiatives - May 2024

Public Hearing being held in Bicholim for mining as a part of mandate under the EIA Notification, 2006 (as amended)

IDC-Connect reg. consent mechanism through OCMMS at Tuvem Ind. Estate

CELEBRATION OF WORLD ENVIRONMENT DAY 2024

The World Environment day 2024 under UNEP theme Land Restorations,Desertifications and draught Resilience with slogan "Our Land,Our Future,We are # Gneneration Restoration" with welcome address by Member Secreatary GSPCB.The Event began with an awarenesss programme on UNEP theme by Dr.Souvik Bhattacharyja-Associate Director –TERI, Delhi on "Circular bio-economy as a strategy towards reversing Land Degradation" followed by "Significance of Land conservation and restoration in meeting India's(Goa's) net zero goal by Dr Rajiv K Chaturvedi : Assoc. Prof. , BITS-Pilani ,Goa campus and finally the key note address by Dr.Devendra Pandey, IFS (Retd.) Fmr PCCF, HoFF, Director General, Forest Survey of India, MoEF&CC on "Environmental Challenges including land degradation". The presentation ended with My Beautiful village - Piligao - Water Harvesting- given byKum. Reyansh Valvalkar (8yrs).

The event was graced by the presence of Dr. Pramod Sawant Hon'ble Chief Minister, Government of Goa as the CHIEF GUEST, Shri. Aleixo Sequeira, Hon'ble Minister for Law & Judiciary, Environment & Climate Change, Captain of Ports and Legislative Affairs as the GUEST OF HONOUR. The SPECIAL INVITEE'S included Shri. Aleixo Reginaldo Lourenco Hon'ble MLA, Curtorim Constituency , Dr. Puneet Kumar Goel, IAS Chief Secretary, Goa, Dr. V. Chandavelou, IAS Principal Secretary (Finance), Goa, & Shri. Johnson Fernandes Director, DECC who were welcomed by the Chairman GSPCB on to the dais followed by lighting the lamp of knowledge. The Chairman GSPCB, Shri. Mahesh Patil also set the Tone of the inaugural function by delivering a welcome address.

As part of the World environmental day programme, various awards acknowledging the efforts of individuals for their initiatives and knowledge towards best Environmental and sustainable practices were presented at the hands of Hon'ble Chief Minister of Goa, Dr. Pramod Sawant.

1. EP Biocomposites Limited as part of World Water day 2024 and the World Environment Day, in association with the Goa State Pollution Control Board had organized competition titled "The Planet Care Innovation Challenge" dealing with innovative ideas for taking care of the Planet. The winners included: 1st place – Master Rushikesh Khedekar, 2nd place – Master Reyansh Valvalkar

2. Goa State Biodiversity Board recognized the efforts of Prof. Prakash Parienkar, Dean of Shenoi Goembab School of Languages and Literature, Sahitya Academy Award Winning Author, of book on "Puran" along with Shri. Ganesh S, Parienkar, Farmer Shri. Vithoba Pingle, Farmer who assisted the implementation and revival of the Puran sheti or site based paddy farming a practice that was stopped 20 years ago.

3. The GSPCB recognized industrial units that have initiated recycling of the STP and ETP treated water back into their utilities/processes thereby reducing stress on fresh water consumption, which were awarded to :
   a. Award for STP:
      i. M/s Nestle India Limited, Usgaon, Ponda.(100KLD STP Capacity)
      ii. Alila Diwa Goa (unit of – Sea Bird Resorts Pvt. Ltd.,), Majorda (210KLD STP capacity)

   b. Award for ETP
      i. M/s Deccan Fine Chemicals (India) Pvt. Ltd., Corlim Tiswadi.(500KLD capacity)
      ii. M/s Cipla Limited, Verna Industrial Estate.(ETP 500KLD and RO of 300KLD capacity)

4. GSPCB also acknowledges the endeavours of the local bodies in Solid Waste Management in practicing effective waste collection and disposal, promote recycling and waste reduction initiatives, educate the public, and raise awareness about waste management issues. These included:
   a. Village Panchayat Mencurem, Bicholim
   b. Village Pancahayt Dongurli-Thane VP, Sattari

5. The Goa State Pollution Control Board appreciated the Conservation efforts of the Village Panchayat Surla, that has converted 31 Hectares of non cultivable land to Cultivable land in their Village jurisdiction.

6. The GSPCB recognized the acquisition of the GreenCo Rating that evaluates companies on the environmental friendliness of their activities using life cycle and performance based approach by assessing the green features of the unit against the performance parameters such as Energy Efficiency, Water Conservation, Renewable Energy, green house gases mitigation, waste management and life cycle assessment. Towards greener products, services and operations.
   a. M/s Deccan Fine Chemicals (India) Pvt. Ltd., Santa Monica Works, Corlim, Tiswadi. (Gold rating)
   b. M/s Godrej Locks and Architectural Fittings and Systems. (Silver rating).
   c. M/s Hindustan Coca-Cola Beverages Ltd., Verna, Salcete. (Gold rating)
   d. M/s Britacel Silicones Ltd., Verna, Salcete. (Silver rating).

7. Similarly, units acquiring IGBC certification by the Indian Green Building Council recognizing building designs that are climate responsive with negative impacts on the environment. Accordingly, the Goa State Pollution Control Board recognised the efforts of the following units in obtaining Indian Green Building Certification (IGBC).
   a. M/s GMR Goa International Airport Ltd., (Manohar International Airport)
   b. M/s Nanutel

8. GSPCB had conducted Quiz-competition and Best Environmental Practices as a precursor to the World Environment Day celebrations.Around 42 teams participated for the quiz competition and followings were the winners.
   a. 1st Prize - Directorate of Higher Education
   b. 2nd Prize - Goa State Wetland Authority
   c. 3rd Prize - Goa State Biodiversity Board

9. Best Environmental Practices were judged by the panel of three experts and the following were the winners:
   a. 1st Prize - M/s. GMR Goa International Airport Limited (Manohar International Airport, Goa)
   b. 2nd Prize - Goa Waste Management Corporation

10. The GSPCB Commends the actions of Verna Industries Association (VIA) and Cuncolim Industries Association (CIA) in collaboration with the Goa State Pollution Control Board (GSPCB) and Goa Industrial Development Corporation (GIDC), for their plantation drive under the mission Clean and Green Industrial Estate. The presidents of both the Industry Associations namely:
    a. Shri. Pradip Antonio Peregrino da Costa President, Verna Industries Association (VIA)

    b. Shri. Abhay Keni, President, Cuncolim Industries Association (CIA).

    The mission Clean & Green Goa Industrial Estate was launched at the hands of the Hon'ble Chief Minister of Goa, Dr. Pramod Sawant

11. The GSPCB was released the Goa State Pollution Control Board Annual Report at the hands of Hon'ble Chief Minister of Goa, Dr. Pramod Sawant. The guest of Honour Shri. Aleixo Sequeira, Hon'ble Minister for Law & Judiciary, Environment & Climate Change, Captain of Ports and Legislative Affairs highlighted the importance of Waste management at source, and also urged the youth to participate actively in preserving the environment.

12. The Chief Guest of the event Hon'ble Chief Minister of Goa, Dr. Pramod Sawant, in his speech urged the collective efforts of all individuals specially industries to take responsibility for their actions and their associated impacts on the environment.

13. The following Environmental Short film were also streamed highlighting the effort of GSPCB with the support of the State Govt.
    a. Ban on Single use Plastic
    b. Deposit refund Scheme
    c. Circular economy – Fish net collection
    d. Protecting Environment and Promoting Green Energy – Initiative of Goa Government.

14. The event concluded with a token of appreciation presented to the Dignitaries followed by a Vote of Thanks by Shri Johnson Fernandes, Director-Department of Environment & Climate Change, Goa.

As part of the World Environment Day Celebrations, the Goa State Pollution Control Board (GSPCB) organized a highly successful Quiz competition witha series of rounds planned, each designed to test different aspects of the participants' knowledge. The quiz Competition focused on various environment related topics. The competition was held on 28/05/2024 at the GSPCB Auditorium at 2:30pm. The competition received an overwhelming response with numerous entries, and 41 teams

were shortlisted for the quiz competition, of which 9 were Government Departments and 32 were industrial organisations. The event was a remarkable showcase of knowledge and awareness of the participants. further enlightening the audience on various factoids and interesting information about all topic related to the Environment, especially the theme of World Environment Day 2024 i.e., Land Restoration, Desertification & Drought Resilience.

Fig: Shri. Sujeet Dongre (Quiz Master) addressing the Participants and audience gathered in the Auditorium of the Goa State pollution Control Board to attend the Quiz Competition.

QUIZMASTER:

Following the warm welcome of all participants and the audience present, The Quizmaster Shri. Sujeet Dongre (Scientist F – Centre for Environmental Education) was given a floral welcome.

Fig: Quiz Master Shri. Sujeet Dongre (Scientist F – Centre for Environmental Education) being given a floral welcome

The quizmaster then briefed all the participants about the rules of the Quiz competition. Subsequently he commenced the written test for all 41 participating teams in order to shortlist top 5 teams to move on to the final rounds of the Quiz. The teams were given a question paper consisting of 30 objective questions and were given a time of 30 minutes to answer it.

Fig: shows Participants of the Quiz competition brainstorming and attempting the written test of the quiz competition

After assessment of the Answer sheets, the following teams were chosen to move on to the oral round of the Quiz Competition:

Sr. No.	Team	Name of the Participant	Name of Industry/Department
1	A	Ms. Shruti Salgaonkar	Goa State Wetland Authority
		Ms. UrveeKanekar	
2	B	Dr. Lalita Baragi	Goa State Climate Change Cell
		Ms. SaloniKakodkar	
3	C	Ms. Priya Bharati	Goa State Biodiversity Board
		Ms. SoniyaGaude	
4	D	Mr. AmeySawaikar	Directorate of Higher Education
		Mr. Stephen Fernandes	
5	E	Mr.Harish Chintalwar	M/s Sanofi Healthcare India Private Limited
		Mr.Shakti Kumar	

The Finalist teams were then welcomed in the front of the audience and the quiz master then proceeded to explainethe various rounds of the quiz competition which were as follows:

1. Objective Round
2. Acronym Round
3. Rapid Fire Round
4. Picture Round

The Quiz master hosted each of the above-mentioned rounds and each team was awarded 10 points for correctly answering the question and were given 5 points for answering questions that were passed on by the previous team. The quizmaster also engaged the audience by forwarding passed on questions to the audience and also surprise questions for the audience.

EVALUATION AND WINNERS:

Following each round, the quiz master also quizzed the audience and the audience members answering correctly were given spot prizes. He also stated additional factoids in relation to the questions asked during the quiz rounds. Upon conclusion of the 4 quiz rounds the following three winners were declared based upon the highest scores at the end of all rounds:

Finishing Place	Team	Name of the Participant	Name of Industry/Department
1st Place	D	Mr. AmeySawaikar	Directorate of Higher Education
		Mr. Stephen Fernandes	
2nd Place	A	Ms. Shruti Salgaonkar	Goa State Wetland Authority
		Ms. UrveeKanekar	
3rd Place	C	Ms. Priya Bharati	Goa State Biodiversity Board
		Ms. SoniyaGaude	

The winners were recognized for their exceptional knowledge, cognition, and expertise in the subject of environment and sustainability. The Winners were presented a Plaque of Excellence at the hands of the Hon'ble Chief Minister of Goa, Dr. Pramod Sawant, on the World Environment Day Celebration held on 5th June 2024 in the Auditorium of the Entertainment Society of Goa, organized by the Department of Environment in association with Goa State Pollution Control Board & Goa State Biodiversity Board.

Fig: Dr. Pramod Sawant, Hon'ble Chief Minister of Goa felicitating Shri. AmeySawaiker and Shri. Stephen Fernandes with a Plaque of Excellence on behalf of the Directorate of Higher Education for securing First Place in the Environmental Quiz Competition.

Fig: Dr. Pramod Sawant, Hon'ble Chief Minister of Goa felicitating Kum. Shruti Salgaonkar and Smt. UrveeKanekar with a Plaque of Excellence on behalf of the Goa State Wetland Authority for securing Second Place in the Environmental Quiz Competition.

Fig: Dr. Pramod Sawant, Hon'ble Chief Minister of Goa felicitating Kum. Priya Bharti and Kum. Soniya Gaude with a Plaque of Excellence on behalf of the Goa State Biodiversity Board for securing Third Place in the Environmental Quiz Competition.

CONCLUSION:

The event concluded with a presentation of memento as a token of appreciation to the esteemed Quizmaster for hisimmense knowledge, valuable insights and support throughout the competition.

Fig: Shri. Mahesh Patil, Chairman – GSPCB, presenting the Quiz master Shri. Sujeet Dongre with a token of appreciation.

The Quiz Competition was a resounding success, demonstrating the knowledge, understanding and awareness of organizations and individuals in Goa about topics related to the environment. The event's impact extended beyond the competition itself, inspiring the audience to be cognizant and understanding of matters pertaining to the Environment, all while urging the participants and audience to make a collective effort toward a cleaner and greener future for the State. The Goa State Pollution Control Board expresses its gratitude to, the Quizmaster, all the participants, organizers, and the enthusiastic audience for their active involvement and commitment to environmental sustainability.

Fig: Winners of the Quiz competition with Shri. Sujeet Dongre, Scientist F – CEE & Ms. Connie Fernandes, Scientist C – GSPCB.

Fig: shows Audience members being awarded spot prizes for answering questions passed on by the teams.

ORGANISINGCOMMITTEE:

The following Officials of the Board were part of the Organising Committee:

1. Keshav Fadke, Assistant Environmental Engineer - GSPCB
2. Pravin FalDessai, Assistant Environmental Engineer- GSPCB
3. Rohan Nagvekar, Assistant Environmental Engineer- GSPCB
4. Kundan Shet, Junior Environmental Engineer – GSPCB
5. Siddhant Desai, Junior Environmental Engineer - GSPCB
6. Rajmohan Prabhudessai, Junior Environmental Engineer - GSPCB
7. Aryada Deshpande, Junior Environmental Engineer – GSPCB
8. Shubham Salganokar, Junior Research Fellow - GSPCB
9. AkshayMorajkar, Junior Research Fellow – GSPCB
10. Mallikesh Naik Gaonkar, Junior Research Fellow – GSPCB

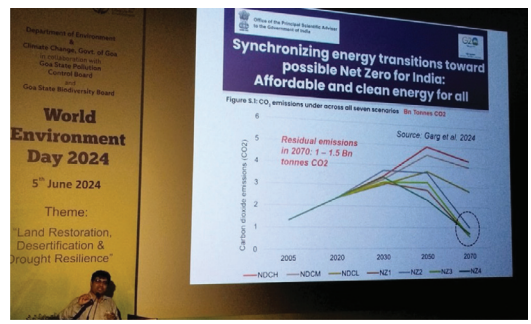
CELEBRATION OF WORLD ENVIRONMENT DAY (WED) 2024 JOINTLY WITH THE DEPARTMENT OF ENVIRONMENT, FORESTS & CLIMATE CHANGE (DOE&CC) / GOA STATE BIODIVERSITY BOARD (GSBB)

"Land Restoration, Desertification & Drought Resilience" with the slogan "Our Land, Our Future, We are #Generation Restoration."

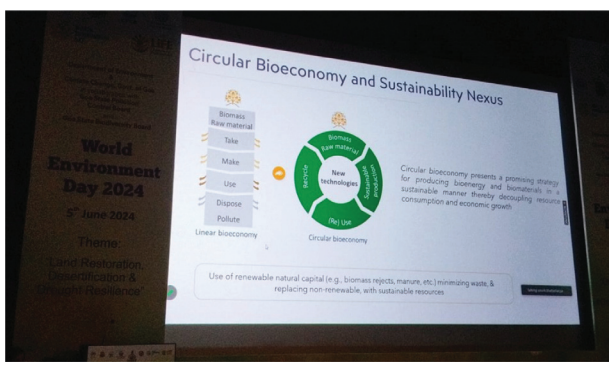
Inaugural address by Hon'ble Chief Minister Dr. Pramod Sawant

Dr. Devendra Pandey, Ex. Director General, Forest Survey of India (FSI) delivering Keynote address

Release of GSPCB's Annual Report 2023-24 at the hands of dignitaries



Dr. Rajiv K. Chaturvedi, Associate Professor, BITS Pilani, Goa delivering WED-theme based lecture



Dr. Souvik Bhattacharya – Associate Director, TERI, Delhi delivering ONLINE lecture on Circular Bio-economy

Felicitation of Local Authorities towards effective green initiatives in Goa

Felicitation of Planet Care Initiaves Challenges organised by E.P Kamat Group

Felicitation of Mr. Abhay Keni, President, Cuncolim Ind Assoc. towards Greening of Cuncolim Ind Estate initiatives

Felicitation of Mr. Pradip Antonio Peregrino da Costa, President, Verna Ind Assoc. towards Greening of Verna Ind Estate initiative

Pre-WED Quiz / Poster and Best Environmental Practices competitions organised by the GSPCB

Felicitation of Pre-WED events organized by GSPCB regarding Best environmental practices

Felicitation of securing Green Rating for industries through CII-Green Co rating evaluation

World Environment day (WED) Pledge

Clean and Green Initiatives through Industries Associations in Verna and Cuncolim Industrial Estates

Chairman, GIDC & Mr. Pradip Da Costa, President, Verna Industries Association along with Chairman / M.S., GSPCB

Chairman, GIDC & Mr. Abahay Keni, President, Verna Industries Association along with Chairman / M.S., GSPCB

Miramar beach clean-up programme – 8th June 2024

IDC-Connect programme : Consent mechanism through OCMMS awareness – 10th June 2024

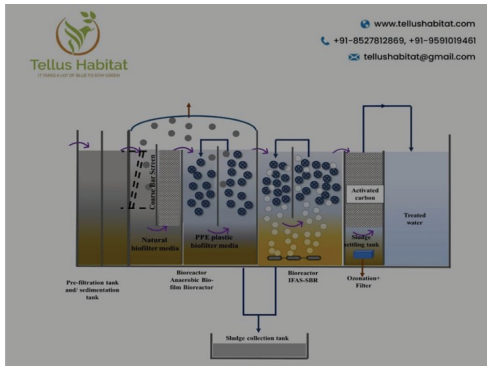
Celebration of World Ocean Day – 8th June 2024

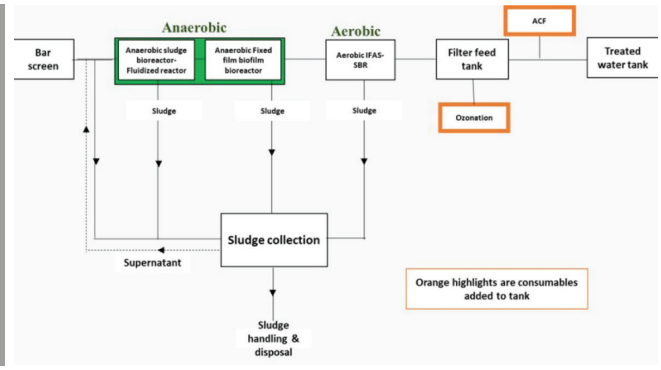
Visit of Technical Advisory Committee (TAC) members to PIP, Amona unit – 11th June 2024

Visit of Technical Advisory Committee (TAC) members to PIP, Amona unit – 11th June 2024

Hexagon India technical summit held in association with GSRSC at Taj Vivanta on - 20th June 2024

Installation of DEMO sewage treatment plant by M/s Tellus Habitat, B'luru in the GSPCB campus – 25th June 2024.





Internal stages of processes

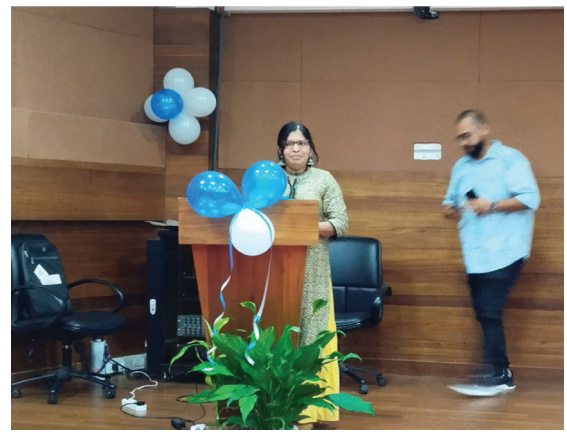
Two sets of treated water samples (once in a week) have been collected by the Board and the Firm for ascertaining the compliance to prescribed standards

QEHS Surveillance Audit by TUV-SUD - 28th June 2024

TUV-SUD Audit team

GSPCB – Section Heads

Superannuation of Mr. Ganpat Naik – Sci. B – 30th June 2024



TERI Golden Jubilee celebrations - 2nd July 2024

Dr. Shamila Monteiro, Member Secretary, GSPCB as one of the panel members (morning session)

Mr. Mahesh Patil, Chairman, GSPCB as one of the panel members (evening session)

Knowledge Sharing session - platform for understanding latest technological interventions towards pollution control measures

Knowledge sharing programmes were held on –

A. 30th April 2024 – (a) M/s Replete Business Solutions Pvt. Ltd., presented on Environmental Conservation Information System (ECIS) through GIS.

(b) M/s Unison Holdings, presented on Advanced STP – Infrastructure as a Service (IaaS) model : Pay per use-mode.

B. 17th May 2024 (a) M/s Innovative Water Tehnology Pvt. Ltd., presented on Water &

Wastewater solutions.

(b) M/s Pi Green Innovation, presented on New Carbon-capture and Sequestration technology.

(c) M/s Earth care Equipments Pvt. Ltd., presented on Organic Waste Convertor (OWC) – a decentralised way.

C. 11th June 2024 (a) M/s Vedanta Ltd., presented on Initiatives towards Carbon Emission reduction.

(b) M/s Microbac tBiocultures, presented on application of bio-cultures for sustainable environment.

D. 9th July 2024 – M/s Coastal Impacts : Mr. Venkatesh Charloo held an interactive session on Marine Awareness followed by River-cleaning initiatives through various interventions.

E. 19th July 2024 (a) M/s Eco STP, presented on Net Zero Sewage treatment technology.

(b) M/s Optismart Eco Solutions, presented on Potymatic : Hyper-efficient toilet system.

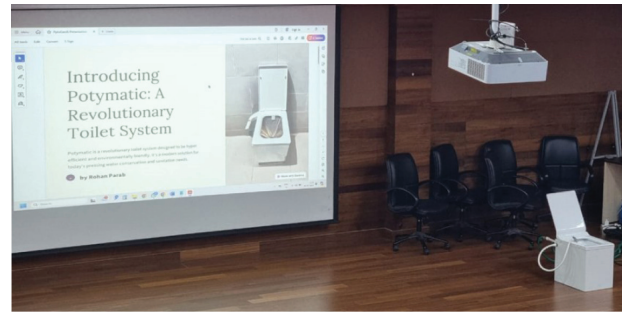
F. 14th August 2024 (a) M/s H2O Dynamics India Ltd., on Sewage treatment plant / wastewater treatment plant - hgSBR technology developed by Bhabha Atomic Research Centre (BARC), Dept. of Atomic Energy, Govt. of India.

(b) M/s Magna Locus on Bio culture for composting & non-hazardous waste.

(c) M/s TSI Incorporated, USA/Casella Solutions, UK- on MCERTS Approved Dust Track Environmental Monitor & IEC 61672 Noise Monitoring equipment.

(d) M/s Horiba, Japan - on Ambient Air Quality Monitoring System - USEPA approved, Continuous Particulate Monitor with X- ray fluorescence, Online Water Analyzers - TUV approved, CEMS and Portable Gas Analyzer etc.

Photo gallery of Knowledge Sharing programmes held from 30th April to 14th August 2024



Study visit of Rajya Sabha (RS) Petition Committee to Goa on 19th July 2024

RAJYA SABHA COMMITTEE ON PETITIONS

(Re-constituted w.e.f. 2nd November, 2022)

1. Shri Sujeet Kumar, Chairman
2. Shrimati Sumitra Balmik
3. Shri Rajendra Gehlot
4. Dr. Dharmasthala Veerendra Heggade
5. Shri Nabam Rebia
6. Shri Kartikeya Sharma
7. Shri Arun Singh
8. Shri Tiruchi Siva

19th July, 2024 (Friday)	1125 Hrs	Departure to Goa by Air Vistra Flight (UK-841)
	1240 Hrs	Arrival in Goa (Goa International Airport)
	1430 Hrs 1800Hrs	Meeting with the representatives of (i) Gas Authority of India Ltd. (GAIL), (ii) Mormugao Port Authority, (iii) Goa Shipyard Limited, (iv) IIT, Goa, (v) Goa State Infrastructure Development Corporation Ltd (GSIDC), (vi) Directorate of Mines & Geology (Government of Goa), (vii) Goa State Pollution Control Board (GSPCB), along with the Officials of Ministry of Petroleum & Natural Gas, Ministry of Ports, Shipping & Waterways, Ministry of Jal Shakti on the petition praying to conserve and revitalize the dying rivers across the country.

RS - Petition Committee under the Chairmanship of Dr. Dharmasthala V. Heggade along with other members

Central (GAIL / MPA / GSL / IIT, Goa) and State Government (DMG / GSIDC / GSPCB) representatives interacting during the meeting on the subject of environment compliance / waste management initiatives / sand-mining.

The GSPCB officials attended the National Conference on Mangroves for Climate Change Mitigation and the Sustainability of Coastal Populace organised by the Department of Botany, PES College, Farmagudi in association with Mangrove Society of India (MSI), Goa State Biodiversity Board (GSBB) and Goa State Pollution Control Board (GSPCB) held on 26th / 27th July 2024

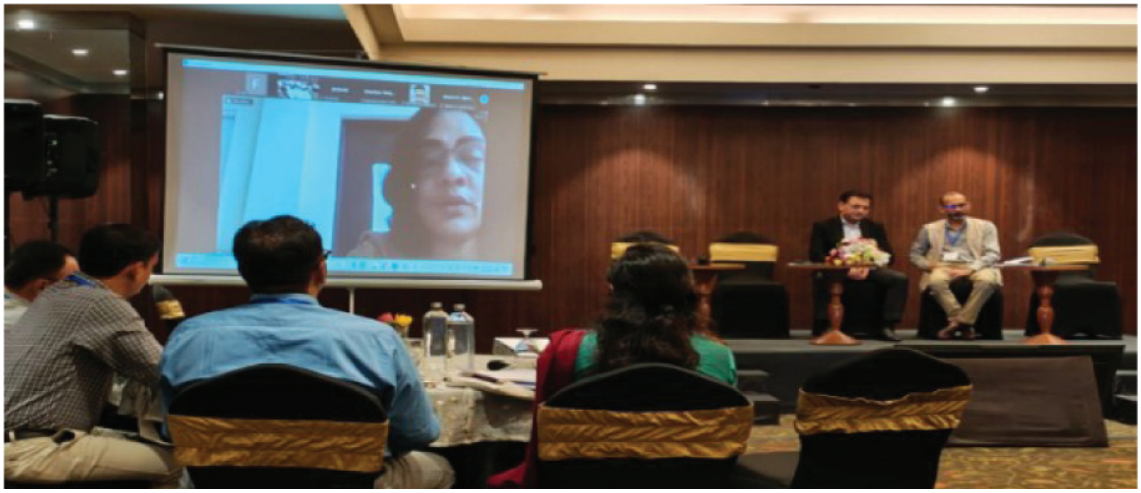
Release of Abstract-book / Souvenir a the hands of Chief Guest – Dr. Parveen Kumar, Direcrtor, ICAR-CCARI among other dignitaries

Prof. Kathiresam Kandasamy, Honorary Professor, AnnamalAI University, T. N. delivering guest-lecture titled "Mangroves of India : Globally Unique".

Board officials responding during Q & A session

Hon'ble Prime Minister's Initiatives – Ek Ped Maa Ke naam

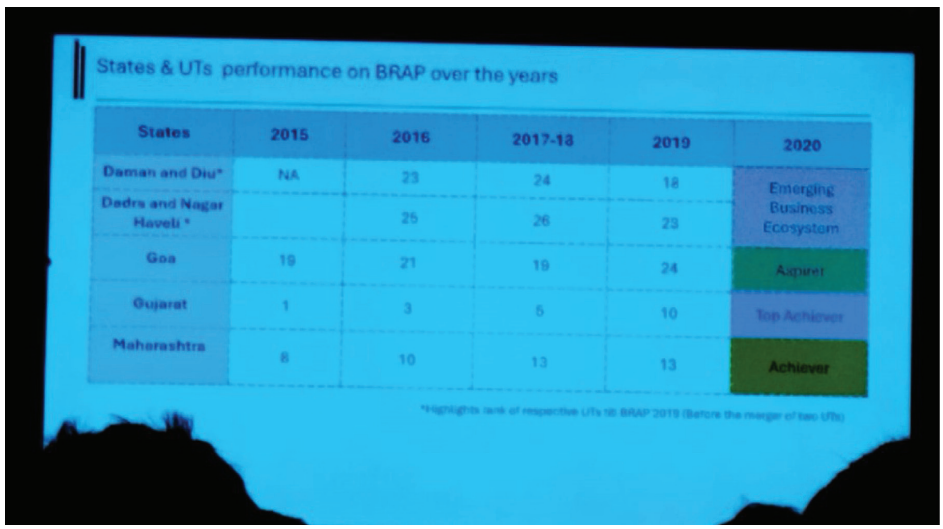
CSE – MPCB workshop for Western region on 'Containing Antibiotic pollution from Manufacturing in view of Antimicrobial Resistance (AMR) held in Mumbai on 8th August 2024



M.S., GSPCB delivering online address during the inaugural session of the workshop on 'containing antibiotic pollution from manufacturing Anti Microbial Resistance (AMR)

Staff of Technical section - Mr. Pravin Faldessai, AEEparticipating in the Panel discussion along with M.S., Maharashtra, M.S., Gujarat.

IT section participated in the Ease of Doing Business (EoDB) workshop being organised for 03-States and 02-UTs' on 9th August 2024



Scientific-section officials attended Advance onsite training pogramme on Continouls Emission and Effluent Monitoring System at Anil Agarwal Environment Training Inbstitute, Nimli, Rajasthan – 6th – 9th August 2024 : 6th – 9th August 2024.

Mrs. Jenica Sequiera, Sci.D& Head, Scientific section and Mrs. Sahyadri Gurav, Sci. B participated in the 04-days programme

Presentation on Grease-separator by M/s Kessel, Germany to Board officials on 9th August 2024.

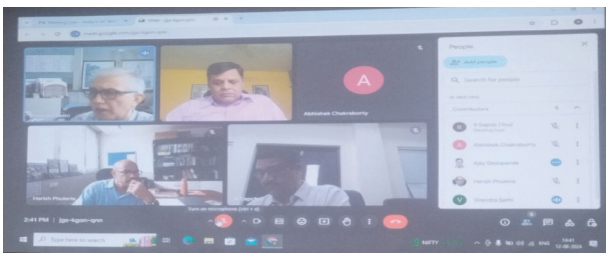
Dr. Martin, Business Development Manager, M/s Kessel, Germany along with Indian-counterpart – Dr. Kamaljeet Singh and Mr. Saurabh Kumar representing M/s Kafmar, Goa

Scientific section of the Board participated in Professional Development Programme on "Application of Bio-Engineering Technologies for Wastewater Treatment in Nalas, Drains & Canals" organised by Center for Climate Change Division, Engineering Staff College of India (ESCI), Hyderabad from 7th – 9th August.

Dr. Chandrakala, Programme Co-ordinator along with participants during the site-visit to Constructed wetland at Kanha Shanti Vanam and Rainwater harvesting pit.

VC with Dr. Sethi (IIT, Mumbai) / Dr. Thaseem (IIT, Goa) / Dr. Ajay Deshpande by Chairman and other officials of the GSPCB reg. State Action Plan for Clean-air : 12th August 2024. (In response to the NGT order dated 09/05/2024 in the matter of OA no. 1595/2021 (SZ))

Chairman, Section-head and Nodal officer, GSPCB attending the VC



Dr. Sethi, IIT, Mumbai / Dr. Ajay Deshpande, Subject-expert / Dr. Thaseem, IIT, Goa among others attending online Demonstration of AQ-AIMS (Air-Pravah) to various stakeholder departments – 13th August 2024

Dr. Pradip Taneja and Dr. Surendra Yadav representing M/s J. M., Environet along with Dr. Hina Ray, Sci. E & Jt. Director and Mr.Sangit Saha, Sci. C from CDAC and Mr. Debashis Chatterji, Manager Technology, TEXMiN, (IIT), ISM, Dhanbad will be making a presentation on "Air-प्रवाह" (Continuous Ambient Air Quality Monitoring System) in the Auditorium / conf. room of the Board on Tuesday - 13th August 2024 from 11.00 a.m. - 12.30 p.m. for Board-officials in presence of Chairman / Mem.Secy.

15th August 2024 : Flag-hoisting at the hands of Mr. Mahesh Patil, Chairman, GSPCB in presence of Dr. (Mrs.) Shamila Monteiro and Board officials / CEE, Goa State Co-orditaor.

Goa State Pollution Control Board (GSPCB) to receive CSR-Times Award during 11th National CSR Summit 2024 to be held on 23rd August 2024 in Darbar Hall, Raj Bhavan, Donapaula

CSR TIMES AWARDS

For the past 11 years, CSR TIMES has been a steadfast advocate for recognizing and fostering CSR endeavors. Since 2013, CSR TIMES has honored commendable organizations and individuals for their outstanding CSR initiatives.

This year, the 11th edition of National CSR Summit and CSR TIMES Awards is being organized in collaboration with the Goa CSR Authority, Government of Goa to be held on 23rd August 2024. Goa will be the State Partner for this summit.

INDEPENDENT AUDITOR'S REPORT

TO THE MEMBERS OF

THE GOA STATE POLLUTION CONTROL BOARD

REPORT ON THE AUDIT OF THE STANDALONE FINANCIAL STATEMENTS

QUALIFIED OPINION

We have audited the accompanying financial statements of The **Goa State Pollution Control Board ("the Agency")** which comprises of the Balance Sheet as at **31st March, 2019,** the Income & Expenditure account for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, subject to the following comments, the aforesaid financial statements give the information required by the act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India, of the state of affairs of the Agency as at March 31, 2019, and its excess of Income over Expenditure for the year ended on date.

BASIS FOR QUALIFIED OPINION

We conducted our audit in accordance with the Standards on Auditing (SAs) specified by the ICAI. Our responsibilities under those Standards are further described in the auditor's responsibilities for the audit of the Standalone Financial Statements section of our report. We are independent of the Agency in accordance with the code of ethics issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to our audit of the financial statements thereunder, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

EMPHASIS OF MATTER PARAGRAPH

On the basis of our examination of the books of accounts and record of the board and information and explanation given to us, in our opinion there are adequate internal control procedures commensurate with the nature and size of the business of the board except as described below where there exist deficiencies:

a) *The Goa State Pollution Control Board received an amount of Rs 2,44,10,667/- on 17.03.18 and 50,00,000/- on 31.07.2018 for which no explanation is available with the board . This shows that records are not maintained by the Board in a proper manner and a lack of internal control. Such amount is shown as an unreconciled receipt in the current liabilities of the balance sheet as it cannot be determined is such receipt is revenue or grant in nature.*

b) *Assets were purchased for Lab equipment for FY 2012-13 Rs. 25,17,725/-, FY 2013-14 Rs.46,21,395/- , FY 2014-15 Rs.36,23,763/- and FY 2015-16 Rs.1,86,79,670/- but on purchase of Lab equipment such amount was not treated in accordance with AS 12. The Board was required to pass entries and either transfer these amounts and reduce the cost price of the assets or show such grants as deferred income to the extent of utilization and charge such amount as income in the profit and loss account in proportion to the depreciation claimed. However no such action was taken and such grant receipts are still seen as unutilized grants as on 31.03.2019. Depreciation is charged on such assets till the current financial year. The Board has to reverse such depreciation in accordance with the provisions of AS 12 which is not done by them. This shows that records are not maintained by the Board in a proper manner and entries not being passed in a timely manner which has resulted in an incorrect presentation of accounts.*

c) *There were reversals of the previous year expenses for the payments of Rs 7,96,318/- for which the parties did not submit cheques to the bank for clearance and such amounts pending in the bank reconciliations for more than 6 months.. TDS of Rs 6,135/- was also seen in the bank reconciliation and is now seen as payable . However such amount was not visible as outstanding on the TDS portal and traces website. The Board was unable to verify as to why such amount was seen in the reconciliation and such payment towards TDS not cleared. TDS of Rs. 4,51,577/- is deducted towards Saligao Building Expenses but no payment for the same is made by Goa State Pollution Control Board as per the records . This will incur interest and penalty as per provisions of the Income Tax act on deduction and non payment of TDS. An opening balance of Rs 1543/- is seen outstanding in the TDS ledger for which no explanation is provided. TDS deducted u/s 194J and paid u/s 192A showing the party Mr. Freddy Dsa on the payroll of the board as salaried employee incorrectly. A proper control needs to be maintained for the same.*

d) *The TDS provision on payment of advances (for building and SAP software) have not been complied with by the board. Non deduction of tax leads to disallowance of expenses under*

the Income Tax Act coupled with corresponding interest and penalties. Tax needs to be deducted and paid in time on all applicable cases to avoid resultant interest and penalties.

e) *Grants pending for utilization account has an outstanding credit balance of Rs 1475.80 /-. Grants related to fixed assets pending for utilization account has an outstanding credit balance of Rs 2191/- .Grant from CPCB Old account has an outstanding credit balance of Rs 63,23,434/- . No explanation is provided by the Board to explain why such amounts are still outstanding and no documents are provided to verify the origin of this grant. Unutilized balance of grants received need to be returned back to the Authorities by the board.*

f) *The board has reported the tax deducted at source on its income from FDR as a Current Asset being an amount Rs. 78,44,481/- as on 31.03.2019. (P.Y. 73,62,356) The credit of this TDS should have been claimed by filing of Income tax returns and claiming refund. We have observed that the Board has not filed any tax returns to claim the refund.*

Our opinion is not modified in respect of aforementioned subject matter.

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

The agency's management is responsible for the preparation of the financial statements that gives a true & fair view of the financial performance in accordance with its bylaws and in accordance with the accounting principle generally accepted in India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of the financial statements that gives a true & fair view and free from material misstatement, whether due to fraud or error.

AUDITOR'S RESPONSIBILITY FOR THE AUDIT OF THE FINANCIAL STATEMENTS

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the standards on auditing issued by the institute of Chartered Accountants of India. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessment, the auditor considers internal control relevant to the Agency's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of

P. B. Deshpande & Co.
CHARTERED ACCOUNTANTS

Continuation Sheet

accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

We report that:

a) In our opinion, subject to our comments above, proper books of accounting as required by law have been kept by the Agency so far as appears from our examination of those books.
b) We have obtained all information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
c) The balance sheet and the income & expenditure A/c dealt with by this report are agreement with the books of account.
d) In our opinion, except for the effects of the matters described in the "Basis for Qualified Opinion" paragraph, the final statements of accounts give a true and fair view:
   (i) In the case of balance sheet, of the state of affairs of the Agency as at the end of the 31st March 2019.
   (ii) In the case of income & expenditure account, of the excess of expenditure over income for the year ended on the date.

For P.B. Deshpande & Co.
Chartered Accountants
FRN. :102396W

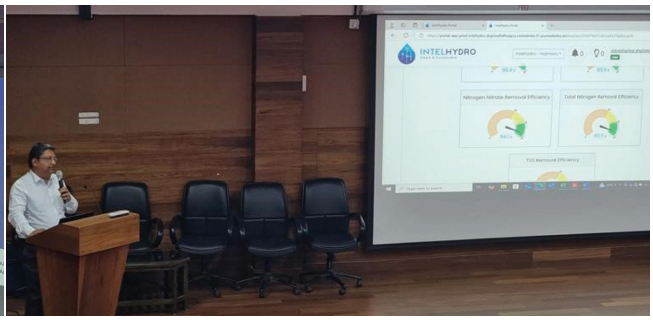
P. B. DESHPANDE & CO. PANJI-GOA

Prachi Vasant Bharne
Partner
Membership No: 160645
Place: Panaji, Goa
UDIN: 24160645BKGFSD9965
Date: 31/7/2024

Knowledge sharing programmes were held on –

A. 18th December 2024

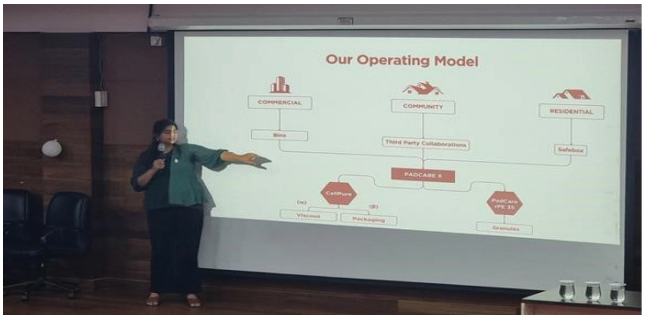
(a) M/s Forbes Marshel, Mumbai : Advanced Monitoring Solutions
(b) M/s IntecHydro, New Delhi : Advanced Wastewater Treatment
(c) M/s Liku-Tech Environmental Solutions : Air – Water Life

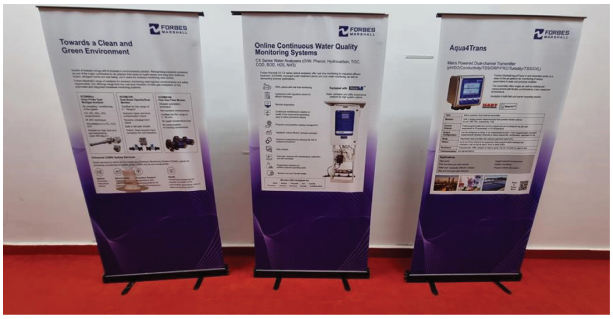


B. 31st January 2025

(a) M/s Padcare Labs, B'luru : Circular Economy for Sanitary Products
(b) M/s S. N. Enviro Solutions, H'bad : Environment Monitoring Instruments
(c) M/s Agua Instruments Pvt. Ltd., Kolkatta : AAQM and OCEMS

Hands-on experience and live demonstration of AAQMS / CEMS / Noise Monitoring instrumentation.





Chairman visited NEERI, Nagpur for one-day Workshop on "Sustainable Waste Management : Challenges & Opportunities"

GSPCB celebrated India Sena Diwas on 15th January 2025

FEBRUARY2025

A meeting was held under the Chairmanship of Shri. Mahesh Patil, Chairman, Goa-PCB in the presence of Shri. Sanjith RodriguesIAS – Secretary, Industries towards mandatory utilization of Piped Natural Gas (PNG) on 3rd February 2025.

In the presence of Mem Secy., GSPCB and GNGPL representative

Industry representatives attending the meeting

Interactive Workshop on Noise Mapping for stakeholder departments was conductedon 11th February 2025 in collaboration with Central Road Research Institute (CRRI) officials.

Dr. Manoranjan Parida, Director, CRRI / Dr. Nasim Akhtar, Chief Principal Scientist, CRRI along with Shri. S. K. Gupta, M/s Envirotech, Chairman & M.S., GSPCB

Industry representatives Meeting was held under the Chairmanship of Sh. Naresh Pal Gangwar, Additional Secretary, MoEF & CC, Govt. of India on 17th February 2025 to discuss about State Government's preparedness towards Draft Notifications w.r.t. Solid Waste and Liquid Waste Management Rules

Dr. Subramaniam, Additional Director, MoEF & CC, Govt. of India along with Shri. Arun Kumar Mishra, Secy., Env., Goa & other State-Govt. Depts.- representatives

Microbiology Laboratory (Bio-Science Division) of the Board has been completed and trial-operations started from 13th March 2025 – works executed by M/s EnviroCare Laboratory, Thane.

Inauguration of Dry Waste Collection Center in Mapusa city (opposite Union Pharmacy) at the hands of Shri. Joshia D'Souza – Dy/ Speaker & Hon'ble M.L.A., Mapusa on 18th March 2025.

THE NAVHIND TIMES

THE NEWSPAPER YOU CAN TRUST

Deputy Speaker and Mapusa MLA Joshua D'Souza on Tuesday inaugurated the state's first-of-its-kind dry waste collection center at Mapusa in the presence of MMC Chairperson Priya Mishal, Mahesh Patil, Chairman of the Goa State Pollution Control Board, Ila Joseph, Project Head of Anubhuti Welfare Foundation, and others. Residents of Bardez can now hand over segregated dry waste and receive incentives based on the quantity of waste

EU-INDIA Resource Efficiency (RE) and Circular Economy (CE) Initiatives : EU-I RECEI held in New Delhi on 19th March 2025.

Chairman, Goa-PCB attended Multi-stakeholder Workshop on Resource Efficiency and Circular Economy in PLASTICS held on 19th March 2025 at Chennai organised by EU-REI, India Chapter.

Chairman along with officials of the Board's Legal-section attended 02-days National Conference on Environment organised by NGT, Principal Bench, New Delhi on 29th – 30th March 2025 at New Delhi.

ESTABLISHMENT OF BIOSCIENCE DIVISION: MICROBIOLOGY, TOXICITY, BIOMONITORING AT GOA STATE POLLUTION CONTROL BOARD (GSPCB), SALIGAO, GOA

GSPCB has established the Bioscience Division comprising of Microbiology, Toxicity and Biomonitoring marking a significant advancement in environmental monitoring.

The Board has further inaugurated its newly constructed state-of-the-art Microbiology Laboratory at the Goa State Pollution Control Board (GSPCB), which has an area of 158Sq.m. The Microbiology laboratory been meticulously designed and constructed to meet best of both industry and regulatory requirements, ensuring efficient workflow, effective contamination control, and personnel safety.

With a cleanroom classification of ISO 8 (Class 100,000), the facility effectively controls microbial loads in the air, ensuring the sterility required for sensitive testing processes.

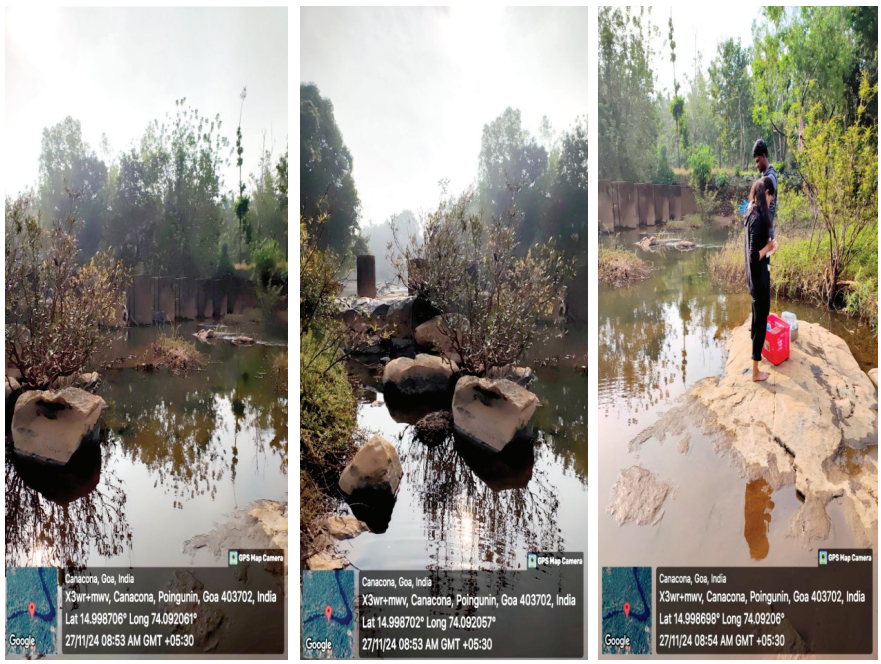
The laboratory is equipped with Laminar Air Flow (LAF) unit and Biosafety Cabinet (BSC). The LAF unit provides a constant flow of HEPA-filtered air to create a sterile workspace, preventing contamination during critical microbiological tasks such as culture plating and media preparation, offering protection for both personnel and samples, ensuring the safe handling of biohazardous materials by maintaining a controlled airflow system and preventing microbial exposure.

To further optimize material and personnel movement, pass boxes, airlocks, and designated pathways have been incorporated. UV controlled Static and dynamic pass boxes are crucial for sample processing & facilitate safe material transfers while minimizing exposure to external contaminants. The airlocks and personnel crossover areas ensure strict adherence to gowning and de-gowning protocols, preventing contamination between sections to align with Biosafety and hygiene standards.

The laboratory is also equipped with dedicated areas for sterility maintenance and waste management. The inclusion of autoclaves, incubators, washing and discard stations, and a well-planned LPG pipeline system ensures smooth operations.

With its comprehensive infrastructure, advanced design, air handling systems, contamination control measures, and biosafety infrastructure it serves as a model facility for high-accuracy microbiological testing.

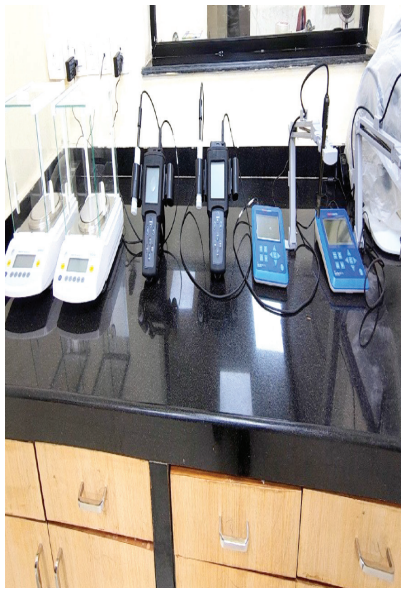
Stereozoom Microscope for identification of Benthic Macroinvertebrates crucial for deducing Saprobic score and Diversity score in Biomonitoring exercise



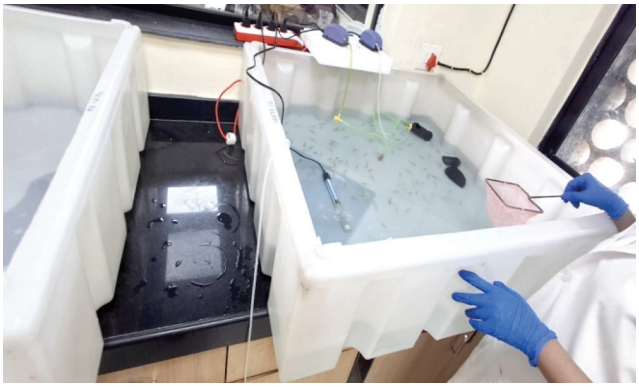
Sampling of downstream of River Talpona Goa

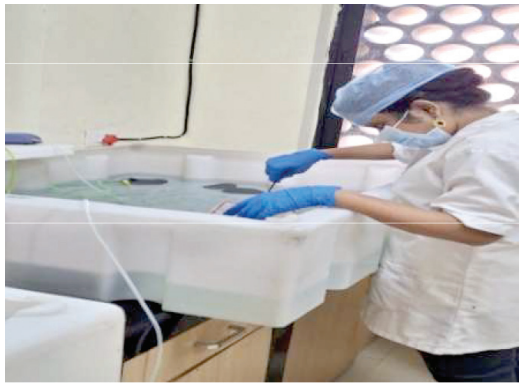
As part of its mandate, the GSPCB has also established a Toxicity laboratory focused on Bioassay methods for evaluating toxicity levels using organisms such as Zebra fish *(Brachydanio rerio)* w.e.f July 2024. This lab plays a critical role in monitoring effluent quality and ensuring compliance with environmental standards set by the CPCB.

Zebra fish (Brachydanio rerio)



Instruments /equipments in the Toxicity laboratory





Handling of fish stock in the Toxicity laboratory

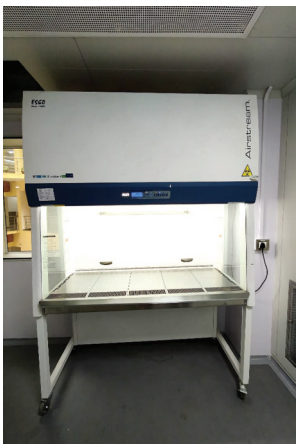
PHOTO GALLERY OF LAUNCH OF MICROBIOLOGY LABORATORY HELD ON 13.03.2024

Launch of Microbiology Laboratory

GSPCB officials along with Member Secretary and Chairman

Laminar Air flow

Media preparation room



Biosafety Cabinet

Bioscience Division staff

◆◆◆

ANNEXURE-I - A

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700,
2407701, 2407703

Email Ids:
Chairman, GSPCB: chairman-gspcb.goa@nic.in
Member Secretary, GSPCB: ms-gspcb.goa@nic.in
Office: mail.gspcb@gov.in

No. 1/86/13-PCB/Admin/7795 Date : 5/07/2024

OFFICE ORDER

Read: Office Order No No. 1/86/13-PCB/Admin/5209 dated 30/06/2021
Sub: Constitution of Internal Complaints Committee in the Goa State Pollution Control Board on prevention of sexual harassment of women at place of work

In supersession of the above referred order and in pursuance of the directions issued by the Hon'ble Supreme Court of India in the case of Visakha & others V/s. State of Rajasthan & Others, an Internal Complaints Committee comprising of the following composition is hereby constituted with immediate effect:-

a.	Mrs. Jenica Sequeira, Scientist "D", Goa State Pollution Control Board	Chairman
b.	Mrs. Tulita da Costa e Fernandes, Administrative Officer, Goa State Pollution Control Board	Member
c.	Mrs. Livia Dsilva, Scientist "B", Goa State Pollution Control Board	Member
d.	Mr. Pravin Faldessai, Assistant Environmental Engineer, Goa State Pollution Control Board	Member
e.	Mrs. Edma Sheth, Scientific Assistant, Goa State Pollution Control Board	Member
f.	Adv. Carolina Colaco, Representative from the NGO-Human Rights Organization Address : No. 10, 1st flr, Om Chambers, Mapusa Goa 403504	Member

The terms of reference of the above mentioned Committee shall be as follows:-

a. The Committee will enquire into all type of complaints relating to sexual harassment of women at work place submitted by Women employee of the GSPCB.
b. The Internal Complaint Committee shall meet every quarter even if no live cases are available, to review the preparedness and fulfill the requirement of the Apex Court Judgment in the 'Visakha' case .

c. The Internal Complaint Committee shall also submit an Annual Report to the Chairman, GSPCB of the complaints (if any) and action taken by it.
d. As per the Order dated 26/04/2004 passed by the Hon'ble Supreme Court in the case of Medha Lele & Ors V/s. Union of India & Ors, the Internal Complaint Committee referred to above will be deemed to be an Inquiry Authority and its report shall be deemed to be an Inquiry Report.

A women employee can submit her complaint regarding sexual harassment at work place to the Chairman of the Committee directly. In case of the complaint is submitted to any other official of the Board, the concerned official shall transfer the complaint to the Chairperson for further necessary action.

The Chairperson of the Committee is authorized to Co-opt a local NGO or any other person, if available, a Member of the Committee. The Chairperson and any two members will be the quorum for the Committee.

The composition shall be suitably revised by the Chairman of the Goa State Pollution Control from time to time in case of transfer, promotion etc. of the member (s) and on case to case basis , if required.

The Committee shall hold office for the period not exceeding three years from the date of nomination.

(Mahesh K. Patil)
Chairman
Goa State Pollution Control Board

To,
1. The Chairperson and Members of the Complaint Committee

CC to,
1. Member Secretary, GSPCB
2. Section Heads
3. Personal file of the officer/official
4. Notice Board.
5. Website
6. Office Copy.
7. Guard file.

ANNEXURE-I B

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700, 2407701, 2407703

Email Ids:
Chairman, GSPCB: chairman-gspcb.goa@nic.in
Member Secretary, GSPCB: ms-gspcb.goa@nic.in
Office: mail.gspcb@gov.in

No. 1/86/13-PCB/Admn/28338 20 /02/2025

CORRIGENDUM

Read: Office order no. 1/86/13/PCB/Admn/7775 dated 05/07/2024

In partial modification of the office order referred to above with respect to constitution of Internal Complaints Committee in the Goa State Pollution Control Board on Prevention of Sexual harassment of women at place of work, the word Chairperson as referred to at serial no. (a) of the said order shall be substituted by **Presiding Officer**.

All other contents of the said office order referred to above remain unchanged.

(Mahesh Patil)
Chairman
Goa State Pollution Control Board

To,
The Presiding officer and Members o the Committee

c..c to: 1. Member Secretary, GSPCB 2. Section Heads 3. All the staff of the GSPCB 4. Notice Board 5. Website 6. Office copy 7. Guard fie.

ANNEXURE-II

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700,
2407701, 2407703

Email Ids:
Chairman, GSPCB: chairman-gspcb.goa@nic.
Member Secretary, GSPCB: ms-gspcb.goa@ni
Office: mail.gspcb@gov.in

No. 8/11/09-PCB/Vol.VIII/Admn/ 8201 19/07/2024

OFFICE ORDER

Sub: Reconstitution of the Technical Advisory Committee (TAC) of the Goa State Pollution Control Board

Ref:
1. Office order no. 8/11/09-PCB/Vol.VIII/Admn/444 dated 08/04/2022
2. Amendment issued vide no. 8/11/09-PCB/Vol.VIII/10313 dated 13/09/2022
3. Office order no. 4/152/22-PCB/Admn/6820 dated 20/07/2022

In exercise of the powers vested with the Goa State Pollution Control Board (GSPCB) under section 9 of the Water (Prevention and Control of Pollution) Act, 1974, the Technical Advisory Committee (TAC) of the Board stands re-constituted with immediate effect and will comprise of the following members:

1.	Dr. Shamila Monteiro	Member Secretary, GSPCB	Chairperson
2.	Mr. Tapan Patnaik	Consultant	Member
3.	Mr. Subrai T. Nadkarni	Ex Chief Engineer, Water Resource Dept., Govt. of Goa	Member
4.	Mr. H.R. Kulkarni	Ex Chief Supt. Engineer, Public Works Dept., Govt. of Goa	Member
5.	Mr. Prabhaker V. Shirodkar	Scientist In-charge, Water Resource Dept., Laboratory, Govt. of Goa	Member
6.	Mr. Hemant Rane	Freelance Health Safety and Environment Consultant	Member
7.	Mr. Sanjeev Joglekar	Senior Environmental Engineer, GSPCB	Member
8.	Mrs. Jenica Sequeira	Scientist 'D', GSPCB.	Member
9.	Mrs. Nandan Prabhudessai	Assistant Env. Engineer, GSPCB	Member
10.	Dr. Mohan Girap	Scientist 'C', GSPCB	Member Convenor

Terms of Reference of the Committee:

1.	The TAC shall discuss and deliberate on those applications received by the Board for grant of Consent to Establish, Consent to Operate ad Authorisation under the Water Act, the Air Act and the Rules framed under the Environment (Protection) Act, 1986 (including renewal applications from units and establishments under Red category (medium and Large) which

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao - Bardez Goa - 403511

	are placed before the Committee and any other applications which require specific advice.
2.	The TAC shall meet every Monday at 3.00 pm in the Conference hall of the Board for the above purpose. The TAC shall also meet as and when requested by the Member Convenor on the directions of the Chairman of the Board
3.	The recommendations of the TAC in the form of minutes shall be submitted by the Member Convenor of the TAC to the Chairman of the Board through the Member Secretary, GSPCB.

General conditions:

1.	Non official Board members to be paid sitting fees of Rs. 5000/- per sitting / online meeting. Site visits / inspection carried out by the Members to be paid @ Rs. 5000/- per day. The Board shall make arrangements for transport for site visits / attend meeting. In case the members utilize their personal vehicles / hire taxi, the same shall be reimbursed at Govt. approved rates.
2.	Outstation members shall be paid Economy class air fare and lodging / boarding @ Rs. 4500/- per day.
3.	In case the site visit / inspection continues is for the whole day, lunch / refreshment shall be provided by the Board on actual on submission of bill / reimbursed to Board staff, as applicable.

The sitting fees will be applicable retrospectively i.e from the Re-constitution of the present Board / Committee.

This Office Order supercedes all the orders referred to above.

(Mahesh K. Patil)
Chairman
Goa State Pollution Control Board.

To,

1.	Mr. Tapan Patnaik, Flat no. 1/UG-4, Models Celebrity, Caranzalem, Goa 403002. Email: patnaik@gmail.com
2.	Mr. Subrai T. Nadkarni, Shree Niwas, Near Kamat Royale, Kerant, Caranzalem, Goa 403002. Email: chiefwrdgoa@rediffmail.com
3.	Mr. H.R. Kulkarni, 201, Devaki, Devashri Complex, Nr. Kamat Estate, V.S. Dempo Marg, Tonca, P.O Caranzalem. Email: kulkarni_goa@rediffmail.com
4.	Mr. Prabhaker V. Shirodkar, Ashirvad, Plot no. A3, Ocean Park, Dona Paula Goa. Email: pv_shirodkar@rediffmail.com
5.	Mr. Hemant Rane, 15-B, Ground floor, Sarvodya Vidya Niketan CHS Ltd., Plot no. 44 and 45, Shivshruti, Nr. Nehru Nagar ST Depot, Kurla (East), Mumbai 400024. Email: hemantrane09@gmail.com
6.	Mr. Sanjeev Joglekar, Senior Environmental Engineer, GSPCB
7.	Mrs. Jenica Sequeira, Scientist 'D', GSPCB.
8.	Mrs. Nandan Prabhudessi, Assistant Env. Engineer, GSPCB
9..	Dr. Mohan Girap, Scientist 'C', GSPCB
10.	Dr. Shamila Monteiro, Member Secretary, GSPCB

c.c. for information to: c.c. to: 1. All Section Heads 2. P.A to Chairman / Member Secretary 3. TAC file 7. Admn. file 8. Guard file.

ANNEXURE-III

GOA STATE POLLUTION CONTROL BOARD

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Email Ids:
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Member Secretary, GSPCB: ms-gspcb.goa@nic.in
Office: mail.gspcb@gov.in

No. 8/7/24-PCB/ 15154/ Admn/15283 23/09/2024

OFFICE ORDER

Dr. Mohan Girap – Scientist 'C', Goa State Pollution Control Board is nominated as Member, to represent the Board for the Project Steering Committee (PSC) on MoEFCC – GIZ TC project titled Waste Solutions for a Circular Economy in India, as per Office order no. 13008/25/2020 (Part I) dated September, 2024, issued by the Ministry of Environment, Forests and Climate Change.

(Dr. Shamila Monteiro)
Member Secretary
Goa State Pollution Control Board

To:
Dr. Mohan Girap, Scientist 'C', Goa State Pollution Control Board

copy to: Section Head – Scientific Section 2. Office copy 3. Personal file of the official 4. Guard file.

Near Pilerne Industrial Estate, Opp.- Saligao Seminary, Saligao - Bardez Goa - 403511

ANNEXURE-IV

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

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Email Ids:
Chairman, GSPCB: chairman-gspcb.goa@nic.in
Member Secretary, GSPCB: ms-gspcb.goa@nic.in
Office: mail.gspcb@gov.in

No. 1/97/21-PCB/Admn./23975 06/01/2025

ORDER

Sub: Re-constitution of the Department Promotion Committee and Departmental Selection Committee in the Goa State Pollution Control Board

In pursuance of the powers vested under section 9 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 11 of the Air (Prevention and Control of Pollution) Act, 1981 and as per the Notification no. 31/9/2010/ENVT&CC-DIR/Part/604 dated 30th July, 2024, published in the Official Gazette, Series I, no. 19 dated 8th August, 2024, the composition of the Departmental Promotion Committee (D.P.C) and Departmental Selection Committee (D.S.C) in respect of Group A, B and C post in the Goa State Pollution Control Board has been re-constituted, comprising of the following members, with immediate effect.

Committee for Group 'A' and 'B' posts

1.	Chairman of the Board		Chairman
2.	Director, Department of Environment and Climate Change, Govt. of Goa or his representative		Member
3.	An expert in the field to be nominated by the Chairman		
	a.	For posts in Scientific section – Director, Food and Drugs Administration, Govt. of Goa.	Member
	b.	For posts in Technical section – Superintending Engineer (Civil) – Water Resource Dept., Govt. of Goa	
	c.	For posts in Legal section – Joint Secretary, Law (Drafting), Govt. of Goa	
	d.	For posts in Admn., I.T and Accounts section – Joint Secretary – Personnel, Govt. of Goa	
4.	One Member of the Board to be nominated by the Chairman – Managing Director, Goa Waste Management Corporation		Member
5.	Member Secretary of the Board		

Committee for Group 'C' posts

1.	Chairman of the Board		Chairman
2.	Director, Department of Environment and Climate Change, Govt. of Goa or his representative		Member
3.	Member Secretary of the Board		
4.	Official of the Board to be nominated by Chairman to assist the DPC / DSC		
	a.	For posts in Scientific section	Scientist 'D'
	b.	For posts in Technical, Admn., Legal, I.T, Accounts	Senior Environmental Engineer

The Terms of Reference of the above Committees shall be as follows:

a. Screening / Selection / Recommendations / making appointments / Promotions / Probation Clearance / Confirmation / Grant of claims under the Modified Assured Career Progression Schemes etc. to Group A, B and C posts as applicable.

b. Any other related task allotted by the Chairman of the Board from time to time

This order supercedes all orders issued earlier in this regard.

(Mahesh K. Patil)
Chairman
Goa State Pollution Control Board

To,

1. The Director, Department of Environment and Climate Change, Govt. of Goa, Dempo Towers, 4th floor, Patto, Panaji Goa.
2. The Director, Food and Drugs Administration, Govt. of Goa., Opp. Shrine of Holy Cross, Bambolim, Goa
3. The Superintending Engineer (Civil) – Water Resource Dept., Govt. of Goa, Porvorim Goa.
4. The Joint Secretary – (Drafting), Law Department, Govt. of Goa, Secretariat, Porvorim
5. The Joint Secretary, Personnel Dept., Secretariat, Porvorim, Goa
6. Scientist 'D', Goa State Pollution Control Board, Saligao
7. Senior Environmental Engineer, Goa State Pollution Control Board, Saligao

Copy for information to:
1. The Chief Engineer, Water Resource Dept., Govt. of Goa, Porvorim Goa.

c.c. to: 1. Admn. copy 2. Office copy 3. Website copy 4. Notice Board 5. Guard file.

ANNEXURE-V

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700, 2407701, 2407703

Email Ids:
Chairman, GSPCB: chairman-gspcb.goa@nic.in
Member Secretary, GSPCB: ms-gspcb.goa@nic.in
Office: mail.gspcb@gov.in

No.1/74/11-PCB/Admn./ 27393 11/02/2025

OFFICE ORDER

In supersession of the office order no. 3/20/07-PCB/Vol.VII/Part/Admn/15126 dated 13/10/2023, a Committee comprising of is hereby constituted as the 'Waste Disposal Committee' of the Goa State Pollution Control Board or the purpose of disposal of condemned articles (Vehicles, equipment, machinery, furniture and other related condemned items and dead stock associated with Goa State Pollution Control Board) under the Chairmanship of Member Secretary, Goa State Pollution Control Board.

Sr. no.	Official nominated	Committee Designation
1.	Member Secretary	Chairperson
2.	Scientist 'D'	Member
3.	Law Officer	Member
4.	Assistant Accounts Officer	Member
5.	Assistant Engineer, I.T	Member
6.	Assistant Env. Engineer (Mrs. Nandan)	Member
7.	Admn. Officer	Member Convenor

The Committee shall schedule a meeting of all its members to ensure further needful inorder to achieve timely disposal of these condemned items as per requirement, after following necessary codal formalities, so as to minimize the safety risk concerning the storage of these non functional items in the Board premises.

The procedure adopted by the Committee comprises following stages:

1.	The concerned Section Head is required to declare non functionality of a concerned equipment / furniture or any such related items within month of

	such a declaration from the concerned authority with supporting documents
2.	The inventory of these items along with the certificate to that effect is to be presented before the Committee during their scheduled meeting within 7 days of intimation.
3.	The discussion held will be minuted with defined time frame action plan and responsibility wherein disposal should be completed within 75 days of meeting
4.	All the members of the Committee are required to be present at the said meeting as and when scheduled on said attendance sheet.
5.	In case the concerned member is unable to attend, the next link officer is authorised to attend after duly recoding reason for absenteeism

(Mahesh K. Patil)
Chairman
Goa State Pollution Control Board

To,
The Officers concerned

c..c to: 1. All Section Heads 2. M.R 3. Personal file of the officers 4. Notice Board 5. Guard file.

ANNEXURE-VI

ANNUAL AAQM DATA OF NAMP STATION FROM APRIL 2024 to MARCH 2025										
Station: Near Dempo Towers, Patto plaza -327								**City: Panaji**		
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	61	17	4	19	NOT MONITORED			**61**	Satisfactory
2	04-04-2024	57	18	7	17				**57**	Satisfactory
3	08-04-2024	63	25	6	17				**63**	Satisfactory
4	11-04-2024	47	11	2	5				**47**	Good
5	15-04-2024	65	13	4	12				**65**	Satisfactory
6	18-04-2024	62	17	3	6				**62**	Satisfactory
7	22-04-2024	59	11	2	11				**59**	Satisfactory
8	25-04-2024	60	16	6	17				**60**	Satisfactory
9	29-04-2024	54	11	2	14				**54**	Satisfactory
10	30-04-2024	56	18	2	14				**56**	Satisfactory
MAY										
11	06-05-2024	49	9	2	5	NOT MONITORED			**49**	Good
12	09-05-2024	70	16	2	17				**70**	Satisfactory
13	13-05-2024	75	22	5	17				**75**	Satisfactory
14	16-05-2024	41	10	2	5				**41**	Good
15	20-05-2024	48	16	2	5				**48**	Good
16	21-05-2024	70	18	3	7				**70**	Satisfactory
17	23-05-2024	30	9	2	5				**30**	Good
18	24-05-2024	62	14	3	15				**62**	Satisfactory
19	27-05-2024	45	13	2	11				**45**	Good
20	30-05-2024	62	13	2	5				**62**	Satisfactory

JUNE										
21	03-06-2024	62	12	2	12	NOT MONITORED			**62**	Satisfactory
22	04-06-2024	31	10	2	9				**31**	Good
23	06-06-2024	35	10	2	5				**35**	Good
24	07-06-2024	23	4	4	5				**23**	Good
25	10-06-2024	29	12	2	9				**29**	Good
26	13-06-2024	25	7	2	5				**25**	Good
27	17-06-2024	30	13	2	5				**30**	Good
28	24-06-2024	27	4	2	5				**27**	Good
29	27-06-2024	31	5	2	5				**31**	Good
JULY										
30	01-07-2024	20	5	1	3	NOT MONITORED			**20**	Good
31	04-07-2024	17	6	2	3				**17**	Good
32	08-07-2024	22	11	1	4				**22**	Good
33	11-07-2024	32	12	2	5				**32**	Good
34	17-07-2024	34	13	6	6	0.46	2	0.004	**34**	Good
35	19-07-2024	32	12	5	5	0.69	2	0.004	**35**	Good
36	23-07-2024	30	14	7	7	0.25	3	0.004	**30**	Good
37	26-07-2024	30	16	7	7	0.51	4	0.003	**30**	Good
38	30-07-2024	33	17	8	8	0.62	2	0.005	**33**	Good
AUGUST										
39	02-08-2024	33	15	6	14	0.58	3	0.010	**33**	Good
40	06-08-2024	36	18	7	15	0.63	4	0.010	**36**	Good
41	09-08-2024	32	16	7	15	0.58	4	0.020	**32**	Good
42	13-08-2024	34	18	7	16	0.63	6	0.020	**34**	Good
43	16-08-2024	33	18	8	17	0.75	7	0.010	**38**	Good
44	20-08-2024	35	18	8	17	0.71	7	0.010	**36**	Good
45	23-08-2024	31	17	7	17	0.68	5	0.010	**34**	Good
46	27-08-2024	35	18	7	17	0.79	7	0.010	**40**	Good
47	30-08-2024	37	18	8	18	0.81	7	0.010	**41**	Good

SEPTEMBER										
48	03-09-2024	39	19	8	16	0.80	7	0.020	**40**	Good
49	06-09-2024	40	20	8	18	0.83	8	0.020	**42**	Good
50	10-09-2024	43	22	8	18	0.76	8	0.010	**43**	Good
51	13-09-2024	46	22	9	18	0.89	8	0.020	**46**	Good
52	17-09-2024	48	24	9	19	0.94	9	0.020	**48**	Good
53	20-09-2024	48	26	10	19	0.97	9	0.010	**49**	Good
54	24-09-2024	42	21	9	18	0.84	7	0.010	**42**	Good
55	27-09-2024	44	22	9	18	0.91	8	0.020	**46**	Good
OCTOBER										
56	01-10-2024	46	24	9	19	0.96	9	0.020	**48**	Good
57	04-10-2024	49	24	10	19	0.83	9	0.010	**49**	Good
58	08-10-2024	52	26	10	20	0.76	10	0.020	**52**	Satisfactory
59	11-10-2024	67	31	11	20	0.89	11	0.020	**67**	Satisfactory
60	15-10-2024	71	34	12	22	1.06	12	0.020	**71**	Satisfactory
61	18-10-2024	78	38	10	21	0.87	13	0.020	**78**	Satisfactory
62	22-10-2024	74	35	12	23	0.54	16	0.010	**74**	Satisfactory
63	24-10-2024	66	32	11	19	0.73	19	0.050	**66**	Satisfactory
64	25-10-2024	79	37	11	17	0.61	17	0.017	**79**	Satisfactory
65	26-10-2024	73	34	10	16	0.53	17	0.070	**73**	Satisfactory
66	27-10-2024	68	35	11	17	0.32	18	0.120	**68**	Satisfactory
67	28-10-2024	82	43	11	17	0.76	17	0.140	**82**	Satisfactory
68	29-10-2024	94	46	13	18	0.89	20	0.020	**94**	Satisfactory
69	30-10-2024	134	72	16	24	1.33	22	0.070	**140**	Moderate
70	31-10-2024	112	63	13	18	0.95	20	0.070	**110**	Moderate
NOVEMBER										
71	01-11-2024	119	65	14	20	1.33	21	0.04	**117**	Moderate
72	02-11-2024	103	57	11	17	1.08	22	0.10	**102**	Moderate
73	03-11-2024	124	67	15	22	1.47	22	0.07	**123**	Moderate
74	04-11-2024	78	40	12	16	0.48	21	0.13	**78**	Satisfactory
75	05-11-2024	86	42	12	19	0.63	19	0.05	**86**	Satisfactory
76	06-11-2024	98	48	13	21	1.23	21	0.19	**98**	Satisfactory

77	07-11-2024	73	38	11	15	0.32	23	0.06	**73**	Satisfactory
78	08-11-2024	91	47	10	20	0.62	17	0.11	**91**	Satisfactory
79	12-11-2024	96	47	14	19	0.62	17	0.10	**96**	Satisfactory
80	15-11-2024	88	44	11	17	0.57	19	0.06	**88**	Satisfactory
81	19-11-2024	90	47	10	16	0.57	16	0.07	**90**	Satisfactory
82	22-11-2024	81	41	12	17	0.52	17	0.03	**81**	Satisfactory
83	26-11-2024	78	41	12	17	0.62	18	0.03	**78**	Satisfactory
84	29-11-2024	75	38	11	15	0.62	16	0.02	**75**	Satisfactory
DECEMBER										
85	03-12-2024	80	38	12	17	0.65	18	0.01	**80**	Satisfactory
86	06-12-2024	75	35	11	15	0.79	17	0.07	**75**	Satisfactory
87	10-12-2024	77	40	11	17	0.41	18	0.10	**77**	Satisfactory
88	13-12-2024	83	45	11	18	0.58	17	0.03	**83**	Satisfactory
89	17-12-2024	79	41	11	17	0.46	16	0.11	**79**	Satisfactory
90	20-12-2024	76	36	12	15	0.63	18	0.04	**76**	Satisfactory
91	24-12-2024	72	38	12	18	0.72	16	0.21	**72**	Satisfactory
92	27-12-2024	75	35	10	18	0.91	17	0.01	**75**	Satisfactory
93	31-12-2024	83	39	12	16	0.85	19	0.02	**83**	Satisfactory
JANUARY										
94	03-01-2025	86	43	11	17	0.67	17	0.08	**86**	Satisfactory
95	07-01-2025	76	39	11	17	0.88	17	0.03	**76**	Satisfactory
96	10-01-2025	79	41	11	17	0.75	18	0.05	**79**	Satisfactory
97	14-01-2025	73	37	12	16	0.92	17	0.07	**73**	Satisfactory
98	17-01-2025	69	35	10	16	1.04	18	0.04	**69**	Satisfactory
99	21-01-2025	77	40	11	17	0.78	17	0.07	**77**	Satisfactory
100	24-01-2025	66	33	10	14	0.95	18	0.07	**66**	Satisfactory
101	28-01-2025	72	38	10	15	0.86	18	0.07	**72**	Satisfactory
102	31-01-2025	76	37	11	14	0.91	18	0.07	**76**	Satisfactory
FEBRUARY										
103	04-02-2025	74	38	12	17	0.82	18	0.08	**74**	Satisfactory
104	07-02-2025	69	36	11	15	1.12	19	0.03	**69**	Satisfactory
105	11-02-2025	80	40	11	17	1.01	19	0.06	**80**	Satisfactory
106	14-02-2025	77	37	11	17	0.97	17	0.05	**77**	Satisfactory

107	18-02-2025	71	35	9	15	1.15	20	0.02	**71**	Satisfactory
108	21-02-2025	78	40	12	16	0.93	20	0.03	**78**	Satisfactory
109	25-02-2025	84	39	9	15	1.24	22	0.05	**84**	Satisfactory
110	28-02-2025	72	35	11	16	1.19	23	0.04	**72**	Satisfactory
MARCH										
111	04-03-2025	78	36	11	15	1.32	21	0.05	**78**	Satisfactory
112	07-03-2025	70	33	12	16	1.10	19	0.03	**70**	Satisfactory
113	11-03-2025	75	37	10	17	0.96	21	0.06	**75**	Satisfactory
114	14-03-2025	65	31	12	17	1.23	21	0.03	**65**	Satisfactory
115	18-03-2025	73	35	10	15	1.04	22	0.05	**73**	Satisfactory
116	21-03-2025	70	37	11	16	1.17	23	0.05	**70**	Satisfactory
117	25-03-2025	78	40	9	15	1.29	23	0.03	**78**	Satisfactory
118	28-03-2025	71	34	12	16	1.08	20	0.03	**71**	Satisfactory
* No Monitoring										

Station: Within the premises of Muncipal Building-775									**City: Mapusa**	
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	79	20	5	23	NOT MONITORED			**79**	Satisfactory
2	04-04-2024	87	34	3	10				**87**	Satisfactory
3	08-04-2024	97	21	5	16				**97**	Satisfactory
4	12-04-2024	118	27	5	14				**112**	Moderate
5	15-04-2024	93	22	5	17				**93**	Satisfactory
6	18-04-2024	62	23	4	19				**62**	Satisfactory
7	22-04-2024	83	14	6	15				**83**	Satisfactory
8	25-04-2024	82	15	3	14				**82**	Satisfactory
9	29-04-2024	103	25	8	17				**102**	Moderate
10	30-04-2024	72	19	4	14				**72**	Satisfactory

MAY										
11	06-05-2024	80	34	2	15	NOT MONITORED			**80**	Satisfactory
12	09-05-2024	65	16	6	17				**65**	Satisfactory
13	13-05-2024	119	35	4	15				**113**	Moderate
14	16-05-2024	51	14	4	9				**51**	Satisfactory
15	20-05-2024	60	17	4	11				**60**	Satisfactory
16	21-05-2024	92	28	5	13				**92**	Satisfactory
17	23-05-2024	69	13	2	9				**69**	Satisfactory
18	24-05-2024	83	23	4	14				**83**	Satisfactory
19	27-05-2024	94	19	2	11				**94**	Satisfactory
20	30-05-2024	109	31	2	5				**106**	Moderate
JUNE										
	03-06-2024	112	25	2	12	NOT MONITORED			**108**	Moderate
22	04-06-2024	56	17	2	9				**56**	Satisfactory
23	06-06-2024	59	14	2	10				**59**	Satisfactory
24	07-06-2024	44	10	4	5				**44**	Good
25	10-06-2024	56	12	2	9				**56**	Satisfactory
26	13-06-2024	31	12	2	5				**31**	Good
27	18-06-2024	40	10	2	5				**40**	Good
28	24-06-2024	57	17	2	5				**57**	Satisfactory
29	27-06-2024	31	10	2	5				**31**	Good
JULY										
30	01-07-2024	30	9	2	4	NOT MONITORED			**30**	Good
31	04-07-2024	28	7	2	3				**28**	Good
32	08-07-2024	29	11	1	3				**29**	Good
33	11-07-2024	30	15	2	5				**30**	Good
34	17-07-2024	25	11	6	10	0.32	3	0.003	**25**	Good
35	19-07-2024	22	10	5	8	0.28	2	0.003	**22**	Good
36	23-07-2024	35	17	9	14	0.32	3	0.003	**35**	Good
37	26-07-2024	37	16	8	14	0.34	4	0.003	**37**	Good
38	30-07-2024	38	19	7	15	0.67	4	0.003	**38**	Good

AUGUST										
39	02-08-2024	33	15	6	14	0.58	3	0.010	**33**	Good
40	06-08-2024	36	18	7	15	0.63	4	0.010	**36**	Good
41	09-08-2024	32	16	7	15	0.58	4	0.020	**32**	Good
42	13-08-2024	34	18	7	16	0.63	6	0.020	**34**	Good
43	16-08-2024	33	18	8	17	0.75	7	0.010	**38**	Good
44	20-08-2024	35	18	8	17	0.71	7	0.010	**36**	Good
45	23-08-2024	31	17	7	17	0.68	5	0.010	**34**	Good
46	27-08-2024	35	18	7	17	0.79	7	0.010	**40**	Good
47	30-08-2024	37	18	8	18	0.81	7	0.010	**41**	Good
SEPTEMBER										
48	03-09-2024	45	23	9	17	0.87	9	0.010	**45**	Good
49	06-09-2024	46	25	9	18	0.91	9	0.020	**46**	Good
50	10-09-2024	48	26	9	18	0.82	9	0.010	**48**	Good
51	14-09-2024	50	26	10	19	0.96	10	0.020	**50**	Good
52	17-09-2024	48	25	10	20	1.04	10	0.020	**52**	Satisfactory
53	21-09-2024	51	25	11	20	0.98	11	0.010	**51**	Satisfactory
54	24-09-2024	45	23	9	18	0.86	10	0.020	**45**	Good
55	28-09-2024	49	24	10	18	0.91	11	0.010	**49**	Good
OCTOBER										
56	01-10-2024	51	25	11	19	0.95	11	0.010	**51**	Satisfactory
57	05-10-2024	52	26	11	19	0.86	12	0.020	**52**	Satisfactory
58	08-10-2024	56	28	11	19	0.71	12	0.010	**56**	Satisfactory
59	12-10-2024	61	28	14	20	0.93	13	0.010	**61**	Satisfactory
60	15-10-2024	66	33	15	22	1.02	13	0.020	**66**	Satisfactory
61	19-10-2024	73	35	12	19	0.69	16	0.010	**73**	Satisfactory
62	22-10-2024	64	32	13	20	0.82	14	0.010	**64**	Satisfactory
63	26-10-2024	86	44	14	19	0.97	16	0.020	**86**	Satisfactory
64	29-10-2024	96	52	14	17	1.03	17	0.020	**96**	Satisfactory
NOVEMBER										
65	02-11-2024	81	44	13	18	0.74	16	0.04	**81**	Satisfactory
66	05-11-2024	70	36	11	16	0.69	17	0.02	**70**	Satisfactory
67	09-11-2024	76	41	12	17	0.84	16	0.03	**76**	Satisfactory

68	12-11-2024	86	49	12	19	0.53	15	0.03	**86**	Satisfactory
69	16-11-2024	79	38	10	17	0.95	16	0.09	**79**	Satisfactory
70	19-11-2024	83	42	12	19	0.77	14	0.05	**83**	Satisfactory
71	23-11-2024	75	37	11	17	0.64	17	0.05	**75**	Satisfactory
72	26-11-2024	82	44	12	18	0.89	15	0.04	**82**	Satisfactory
73	29-11-2024	89	46	13	19	0.97	17	0.05	**89**	Satisfactory
DECEMBER										
74	03-12-2024	84	45	12	18	0.81	18	0.02	**84**	Satisfactory
75	07-12-2024	80	42	14	19	0.95	19	0.04	**80**	Satisfactory
76	10-12-2024	86	47	13	19	0.76	19	0.08	**86**	Satisfactory
77	14-12-2024	91	46	12	18	0.72	19	0.05	**91**	Satisfactory
78	17-12-2024	89	46	13	18	0.54	18	0.07	**89**	Satisfactory
79	21-12-2024	76	40	13	18	0.83	18	0.05	**76**	Satisfactory
80	23-12-2024	80	41	13	18	0.87	17	0.04	**80**	Satisfactory
81	28-12-2024	73	37	13	17	0.94	17	0.02	**73**	Satisfactory
82	31-12-2024	78	41	12	16	1.05	19	0.07	**78**	Satisfactory
JANUARY										
83	04-01-2025	76	39	12	17	0.96	17	0.03	**76**	Satisfactory
84	07-01-2025	86	42	13	17	0.75	18	0.03	**86**	Satisfactory
85	11-01-2025	81	41	12	17	0.83	17	0.03	**81**	Satisfactory
86	14-01-2025	77	38	13	18	0.54	18	0.01	**77**	Satisfactory
87	18-01-2025	84	42	14	18	1.17	19	0.03	**84**	Satisfactory
88	21-01-2025	74	38	12	18	1.02	17	0.02	**74**	Satisfactory
89	25-01-2025	85	41	12	18	0.91	18	0.05	**85**	Satisfactory
90	28-01-2025	82	36	11	17	0.73	17	0.06	**82**	Satisfactory
FEBRUARY										
91	01-02-2025	85	44	13	18	1.26	19	0.04	**85**	Satisfactory
92	04-02-2025	77	39	12	17	1.14	18	0.05	**77**	Satisfactory
93	08-02-2025	91	45	12	18	0.96	18	0.04	**91**	Satisfactory
94	11-02-2025	81	41	12	16	1.30	19	0.06	**81**	Satisfactory
95	15-02-2025	76	39	10	17	1.05	18	0.05	**76**	Satisfactory
96	18-02-2025	84	43	11	17	0.87	19	0.08	**84**	Satisfactory

97	22-02-2025	79	37	12	17	1.29	19	0.06	**79**	Satisfactory
98	25-02-2025	72	35	12	17	1.18	20	0.05	**72**	Satisfactory
MARCH										
99	01-03-2025	75	36	11	16	1.37	22	0.05	**75**	Satisfactory
100	04-03-2025	82	43	12	18	0.85	20	0.06	**82**	Satisfactory
101	08-03-2025	77	38	12	17	1.21	23	0.09	**77**	Satisfactory
102	11-03-2025	74	36	10	16	1.14	23	0.06	**74**	Satisfactory
103	15-03-2025	84	41	12	17	1.30	21	0.07	**84**	Satisfactory
104	18-03-2025	75	37	12	17	0.93	23	0.03	**75**	Satisfactory
105	22-03-2025	81	42	11	19	1.15	21	0.04	**81**	Satisfactory
106	25-03-2025	72	33	12	16	1.28	23	0.02	**72**	Satisfactory
107	29-03-2025	69	36	11	16	1.34	20	0.04	**69**	Satisfactory
* No Monitoring										

Station: Fuse Call Office-37								**City: Vasco**
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					**AQI**	**AIR QLTY**
	Parameters	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**	**NH3**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	24-hr avg		
APRIL								
1	03-04-2024	78	45	2	5	10	**78**	Satisfactory
2	05-04-2024	72	16	2	18	10	**72**	Satisfactory
3	08-04-2024	84	39	2	26	10	**84**	Satisfactory
4	12-04-2024	76	45	2	15	10	**76**	Satisfactory
5	16-04-2024	50	44	2	19	10	**73**	Satisfactory
6	19-04-2024	54	48	2	19	10	**80**	Satisfactory
7	24-04-2024	63	31	2	18	10	**63**	Satisfactory
8	26-04-2024	82	30	2	22	10	**82**	Satisfactory
9	29-04-2024	52	43	2	21	10	**72**	Satisfactory
10	30-04-2024	45	31	2	21	10	**52**	Satisfactory

MAY								
11	09-05-2024	50	18	2	9	10	**50**	Good
12	10-05-2024	37	24	2	16	10	**40**	Good
13	15-05-2024	37	26	2	15	10	**43**	Good
14	16-05-2024	34	32	2	20	10	**53**	Satisfactory
15	22-05-2024	73	28	2	5	10	**73**	Satisfactory
16	27-05-2024	49	29	2	5	10	**49**	Good
17	29-05-2024	50	22	2	9	10	**50**	Good
18	31-05-2024	69	16	2	11	10	**69**	Satisfactory
JUNE								
19	03-06-2024	79	17	2	5	10	**79**	Satisfactory
20	04-06-2024	28	15	2	5	10	**28**	Good
21	06-06-2024	70	13	2	10	10	**70**	Satisfactory
22	07-06-2024	16	8	2	16	10	**20**	Good
23	19-06-2024	35	MB	2	5	10	**35**	Good
24	21-06-2024	137	MB	2	12	10	**125**	Moderate
25	26-06-2024	39	MB	2	5	10	**39**	Good
26	28-06-2024	56	MB	2	5	10	**56**	Satisfactory
JULY								
27	03-07-2024	28	36	2	5	10	**60**	Satisfactory
28	05-07-2024	31	28	2	9	10	**46**	Good
29	10-07-2024	41	19	2	5	10	**41**	Good
30	17-07-2024	46	29	2	9	10	**49**	Good
31	24-07-2024	95	35	2	5	10	**95**	Satisfactory
32	26-07-2024	51	42	2	5	10	**70**	Satisfactory
33	31-07-2024	29	21	2	9	10	**36**	Good
AUGUST								
34	03-08-2024	34	19	2	5	10	**34**	Good
35	09-08-2024	30	12	2	10	10	**30**	Good
36	13-08-2024	37	29	2	9	10	**48**	Good
37	16-08-2024	43	16	2	5	10	**43**	Good
38	21-08-2024	20	14	2	11	10	**23**	Good
39	23-08-2024	16	12	2	10	10	**20**	Good

40	28-08-2024	54	11	2	5	10	**54**	Satisfactory
41	30-08-2024	16	13	2	5	10	**21**	Good
SEPTEMBER								
42	04-09-2024	30	24	2	11	10	**39**	Good
43	06-09-2024	29	16	2	5	10	**29**	Good
44	11-09-2024	41	22	2	5	10	**41**	Good
45	13-09-2024	21	MB	2	5	10	**21**	Good
46	18-09-2024	20	MB	2	23	10	**29**	Good
47	20-09-2024	24	16	2	5	10	**26**	Good
48	25-09-2024	28	14	2	11	10	**28**	Good
49	27-09-2024	28	15	2	10	10	**28**	Good
OCTOBER								
50	01-10-2024	38	31	2	6	10	**52**	Satisfactory
51	04-10-2024	21	18	2	7	10	**30**	Good
52	09-10-2024	21	10	2	8	10	**21**	Good
53	11-10-2024	83	13	2	13	10	**83**	Satisfactory
54	16-10-2024	26	6	2	6	10	**26**	Good
55	18-10-2024	17	6	2	5	10	**17**	Good
56	23-10-2024	47	26	41	5	10	**51**	Satisfactory
57	25-10-2024	50	43	13	30	10	**72**	Satisfactory
58	29-10-2024	17	6	13	34	10	**43**	Good
NOVEMBER								
59	01-11-2024	57	46	34	7	10	**77**	Satisfactory
60	06-11-2024	43	15	2	5	10	**43**	Good
61	08-11-2024	53	23	2	10	10	**53**	Satisfactory
62	13-11-2024	81	45	2	13	10	**81**	Satisfactory
63	15-11-2024	23	22	2	5	10	**37**	Good
64	20-11-2024	85	58	2	12	10	**97**	Satisfactory
65	22-11-2024	100	78	2	5	10	**160**	Moderate
66	27-11-2024	128	59	2	14	10	**119**	Moderate
67	29-11-2024	109	65	5	5	10	**117**	Moderate

DECEMBER								
68	04-12-2024	59	43	2	16	10	**72**	Satisfactory
69	06-12-2024	49	27	2	5	10	**49**	Good
70	11-12-2024	112	83	5	13	10	**177**	Moderate
71	13-12-2024	113	87	2	5	34	**190**	Moderate
72	17-12-2024	146	73	2	34	10	**143**	Moderate
73	20-12-2024	92	89	2	25	10	**197**	Moderate
74	23-12-2024	59	45	2	22	10	**75**	Satisfactory
75	27-12-2024	58	30	2	22	10	**58**	Satisfactory
JANUARY								
76	01-01-2025	103	74	2	25	24	**147**	Moderate
77	03-01-2025	174	81	7	27	10	**170**	Moderate
78	08-01-2025	122	83	4	24	10	**177**	Moderate
79	10-01-2025	160	99	4	19	10	**230**	Poor
80	15-01-2025	167	50	5	18	31	**145**	Moderate
MARCH								
81	11-03-2025	99	47	2	22	40	**99**	Satisfactory
82	13-03-2025	65	41	2	16	55	**68**	Satisfactory
83	19-03-2025	96	28	2	17	26	**96**	Satisfactory
84	21-03-2025	127	40	2	20	27	**118**	Moderate
85	26-03-2025	54	20	2	21	78	**54**	Satisfactory
86	28-03-2025	99	36	2	14	53	**99**	Satisfactory
* No Monitoring MB-Machine Breakdown								

Station:MPT Quarters-1253								City: Baina
		Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)					AQI	AIR QLTY
	Parameters	PM_{10}	$PM_{2.5}$	SO_2	NO_2	NH3		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	24-hr avg		
APRIL								
1	03-04-2024	74	25	2	5	10	**74**	Satisfactory
2	05-04-2024	86	28	2	5	10	**86**	Satisfactory
3	08-04-2024	53	29	2	5	10	**53**	Satisfactory
4	12-04-2024	108	28	2	15	10	**105**	Moderate
5	16-04-2024	78	38	2	18	10	**78**	Satisfactory
6	19-04-2024	49	33	2	19	10	**55**	Satisfactory
7	24-04-2024	110	28	2	16	10	**107**	Moderate
8	26-04-2024	40	21	2	12	10	**40**	Good
9	29-04-2024	109	41	2	5	10	**106**	Moderate
10	30-04-2024	33	20	2	12	10	**33**	Good
MAY								
11	09-05-2024	58	18	2	5	10	**58**	Satisfactory
12	10-05-2024	45	19	2	12	10	**45**	Good
13	15-05-2024	78	31	2	5	10	**78**	Satisfactory
14	16-05-2024	69	31	2	13	10	**69**	Satisfactory
15	22-05-2024	74	21	2	10	10	**74**	Satisfactory
16	27-05-2024	54	22	2	12	10	**54**	Satisfactory
17	29-05-2024	37	23	2	5	10	**38**	Good
18	31-05-2024	48	21	2	5	10	**48**	Good
JUNE								
19	03-06-2024	128	19	2	5	10	**119**	Moderate
20	04-06-2024	56	16	2	5	10	**56**	Satisfactory
21	06-06-2024	94	18	2	5	10	**94**	Satisfactory
22	07-06-2024	28	9	2	12	10	**28**	Good
23	19-06-2024	337	22	16	10	10	**287**	Poor
24	21-06-2024	252	25	2	5	10	**202**	Poor

25	26-06-2024	152	27	2	5	10	**135**	Moderate
26	28-06-2024	83	41	2	5	10	**83**	Satisfactory
JULY								
27	03-07-2024	88	26	2	5	10	**88**	Satisfactory
28	05-07-2024	66	46	2	5	10	**76**	Satisfactory
29	10-07-2024	**173**	18	2	5	10	**149**	Moderate
30	17-07-2024	**253**		2	5	10	**203**	Poor
31	24-07-2024	**159**	38	2	5	10	**139**	Moderate
32	26-07-2024	**108**	40	2	9	10	**106**	Moderate
33	31-07-2024	**91**	43	2	10	10	**91**	Satisfactory
AUGUST								
34	03-08-2024	94	35	2	10	10	**94**	Satisfactory
35	09-08-2024	99	18	2	10	10	**99**	Satisfactory
36	13-08-2024	84	25	2	5	10	**84**	Satisfactory
37	16-08-2024	70	34	2	5	10	**70**	Satisfactory
38	21-08-2024	39	21	2	10	10	**39**	Good
39	23-08-2024	42	27	2	9	10	**45**	Good
40	28-08-2024	**136**	5	2	5	10	**124**	Moderate
41	30-08-2024	29	14	2	5	10	**29**	Good
SEPTEMBER								
42	04-09-2024	58	33	2	22	10	**58**	Satisfactory
43	06-09-2024	91	MB	2	5	10	**91**	Satisfactory
44	11-09-2024	61	MB	2	5	10	**61**	Satisfactory
45	13-09-2024	36	MB	2	5	10	**36**	Good
46	18-09-2024	38	MB	2	22	10	**38**	Good
47	25-09-2024	44	MB	2	11	10	**44**	Good
48	27-09-2024	31	MB	2	11	10	**31**	Good
OCTOBER								
49	01-10-2024	53	MB	2	7	10	**53**	Satisfactory
50	04-10-2024	37	MB	2	6	10	**37**	Good
51	09-10-2024	33	MB	2	7	10	**33**	Good
52	11-10-2024	52	MB	2	9	10	**52**	Satisfactory

53	16-10-2024	31	MB	2	5	10	**31**	Good
54	18-10-2024	23	MB	2	6	10	**23**	Good
55	23-10-2024	50	MB	6	5	10	**50**	Good
56	25-10-2024	49	MB	13	32	10	**49**	Good
57	29-10-2024	84	MB	10	5	10	**84**	Satisfactory
NOVEMBER								
58	01-11-2024	58	MB	17	30	10	**58**	Satisfactory
59	06-11-2024	66	MB	5	5	10	**66**	Satisfactory
60	08-11-2024	61	MB	2	5	10	**61**	Satisfactory
61	13-11-2024	71	MB	2	17	10	**71**	Satisfactory
62	15-11-2024	37	MB	2	12	10	**37**	Good
63	20-11-2024	97	MB	2	12	10	**97**	Satisfactory
64	22-11-2024	71	MB	6	14	10	**71**	Satisfactory
65	27-11-2024	116	MB	2	20	10	**111**	Moderate
66	29-11-2024	110	MB	2	11	10	**107**	Moderate
DECEMBER								
67	04-12-2024	48	44	2	11	10	**73**	Satisfactory
68	06-12-2024	42	27	4	5	10	**45**	Good
69	11-12-2024	108	74	11	9	10	**147**	Moderate
70	13-12-2024	140	73	2	5	10	**143**	Moderate
71	17-12-2024	126	69	2	5	10	**130**	Moderate
72	20-12-2024	70	57	2	8	19	**95**	Satisfactory
73	23-12-2024	52	27	6	13	10	**52**	Satisfactory
74	27-12-2024	52	33	2	18	24	**55**	Satisfactory
JANUARY								
75	01-01-2025	71	27	2	21	10	**71**	Satisfactory
76	03-01-2025	138	65	2	21	10	**125**	Moderate
77	08-01-2025	107	60	2	23	10	**105**	Moderate
78	10-01-2025	105	89	2	19	10	**197**	Moderate
79	15-01-2025	56	42	14	7	10	**70**	Satisfactory
80	17-01-2025	98	59	2	12	10	**98**	Satisfactory
81	22-01-2025	95	55	2	25	10	**95**	Satisfactory

82	24-01-2025	70	35	5	19	27	**70**	Satisfactory
83	29-01-2025	100	57	18	5	10	**100**	Satisfactory
84	31-01-2025	95	60	2	13	10	**100**	Satisfactory
FEBRUARY								
85	05-02-2025	94	48	2	5	22	**94**	Satisfactory
86	07-02-2025	85	45	2	10	10	**85**	Satisfactory
87	12-02-2025	86	50	2	11	10	**86**	Satisfactory
88	14-02-2025	86	45	2	13	10	**86**	Satisfactory
89	19-02-2025	39	23	2	5	10	**39**	Good
90	21-02-2025	70	52	2	5	10	**87**	Satisfactory
91	26-02-2025	116	54	2	5	22	**111**	Moderate
92	28-02-2025	99	47	2	16	10	**99**	Satisfactory
MARCH								
93	05-03-2025	86	42	2	16	10	**86**	Satisfactory
94	07-03-2025	73	38	2	20	10	**73**	Satisfactory
95	11-03-2025	78	47	2	26	10	**78**	Satisfactory
96	13-03-2025	51	27	2	11	10	**51**	Satisfactory
97	19-03-2025	48	20	2	12	24	**48**	Good
98	21-03-2025	58	22	4	12	10	**58**	Satisfactory
99	26-03-2025	54	24	2	16	10	**54**	Satisfactory
100	28-03-2025	51	18	4	16	10	**51**	Satisfactory

* No Monitoring MB-Machine Breakdown

Station: Roof top of Municipal market -776										City: Ponda
		Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)							AQI	AIR QLTY
	Parameters	PM10	PM2.5	SO2	NO2	*CO	O3	Pb		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	53	12	3	5	NOT MONITORED			**53**	Satisfactory
2	04-04-2024	51	15	5	15				**51**	Satisfactory
3	08-04-2024	59	19	3	12				**59**	Satisfactory
4	11-04-2024	66	19	5	17				**66**	Satisfactory
5	15-04-2024	75	23	5	12				**75**	Satisfactory
6	18-04-2024	104	19	6	14				**102**	Moderate
7	22-04-2024	102	29	6	16				**101**	Moderate
8	25-04-2024	94	24	6	18				**94**	Satisfactory
9	29-04-2024	75	19	8	19				**75**	Satisfactory
10	30-04-2024	80	18	6	17				**80**	Satisfactory
MAY										
11	06-05-2024	86	40	5	15	NOT MONITORED			**86**	Satisfactory
12	09-05-2024	81	20	7	17				**81**	Satisfactory
13	13-05-2024	96	22	5	22				**96**	Satisfactory
14	16-05-2024	43	9	2	5				**43**	Good
15	20-05-2024	63	14	2	12				**63**	Satisfactory
16	21-05-2024	66	20	4	10				**66**	Satisfactory
17	23-05-2024	28	9	2	5				**28**	Good
18	24-05-2024	46	15	4	7				**46**	Good
19	27-05-2024	79	17	2	10				**79**	Satisfactory
20	30-05-2024	41	10	2	5				**41**	Good

JUNE										
21	03-06-2024	45	17	2	9	NOT MONITORED			**45**	Good
22	04-06-2024	35	5	2	5				**35**	Good
23	06-06-2024	28	9	2	5				**28**	Good
24	07-06-2024	31	5	5	9				**31**	Good
25	10-06-2024	26	8	4	5				**26**	Good
26	13-06-2024	33	4	2	5				**33**	Good
27	17-06-2024	35	5	2	5				**35**	Good
28	24-06-2024	35	10	2	5				**35**	Good
29	27-06-2024	35	14	2	5				**35**	Good
JULY										
30	01-07-2024	43	7	2	5	NOT MONITORED			**43**	Good
31	04-07-2024	34	9	2	3				**34**	Good
32	08-07-2024	39	10	2	4				**39**	Good
33	11-07-2024	39	10	2	5				**39**	Good
34	15-07-2024	34	15	4	11	0.52	2	0.003	**34**	Good
35	18-07-2024	35	17	6	12	0.47	2	0.002	**35**	Good
36	22-07-2024	30	15	7	15	0.48	2	0.005	**30**	Good
37	25-07-2024	32	17	7	13	0.69	2	0.004	**35**	Good
38	29-07-2024	27	14	6	11	0.48	3	0.003	**27**	Good
AUGUST										
39	01-08-2024	24	13	7	13	0.57	4	0.010	**29**	Good
40	05-08-2024	28	15	6	14	0.62	4	0.010	**31**	Good
41	08-08-2024	30	16	6	13	0.59	5	0.010	**30**	Good
42	12-08-2024	30	18	6	15	0.64	6	0.020	**32**	Good
43	16-08-2024	32	16	7	15	0.72	6	0.010	**36**	Good
44	19-08-2024	30	15	7	15	0.75	6	0.010	**38**	Good
45	22-08-2024	26	14	6	14	0.48	5	0.010	**26**	Good
46	26-08-2024	29	16	6	14	0.51	7	0.010	**29**	Good
47	29-08-2024	31	17	7	16	0.62	6	0.010	**31**	Good

SEPTEMBER										
48	02-09-2024	34	19	7	16	0.58	7	0.020	**34**	Good
49	05-09-2024	34	17	7	16	0.61	7	0.010	**34**	Good
50	10-09-2024	35	19	8	16	0.55	8	0.020	**35**	Good
51	12-09-2024	37	21	8	17	0.64	8	0.030	**37**	Good
52	16-09-2024	40	21	8	17	0.58	9	0.010	**40**	Good
53	19-09-2024	41	23	9	17	0.63	9	0.010	**41**	Good
54	23-09-2024	36	20	8	16	0.59	8	0.010	**36**	Good
55	26-09-2024	35	18	8	16	0.67	8	0.020	**35**	Good
56	30-09-2024	37	19	8	17	0.56	9	0.020	**37**	Good
OCTOBER										
57	03-10-2024	43	22	8	17	0.62	9	0.020	**43**	Good
58	07-10-2024	45	22	9	18	0.53	10	0.010	**45**	Good
59	10-10-2024	47	24	9	18	0.49	10	0.020	**47**	Good
60	14-10-2024	58	26	9	19	0.67	11	0.020	**58**	Satisfactory
61	17-10-2024	64	33	10	19	0.40	13	0.010	**64**	Satisfactory
62	21-10-2024	56	28	8	18	0.31	14	0.010	**56**	Satisfactory
63	24-10-2024	68	32	11	19	0.45	14	0.010	**68**	Satisfactory
64	28-10-2024	61	34	11	17	0.57	14	0.020	**61**	Satisfactory
65	31-10-2024	89	45	14	20	1.24	14	0.020	**89**	Satisfactory
NOVEMBER										
66	04-11-2024	75	37	13	16	0.89	12	0.01	**75**	Satisfactory
67	07-11-2024	82	42	11	19	0.94	15	0.01	**82**	Satisfactory
68	11-11-2024	73	35	12	18	0.62	17	0.01	**73**	Satisfactory
69	14-11-2024	69	33	11	16	0.78	16	0.01	**69**	Satisfactory
70	18-11-2024	77	40	14	18	0.83	17	0.01	**77**	Satisfactory
71	21-11-2024	65	33	13	17	0.71	15	0.01	**65**	Satisfactory
72	25-11-2024	71	37	12	16	0.65	16	0.01	**71**	Satisfactory
73	28-11-2024	74	35	12	17	0.52	17	0.03	**74**	Satisfactory
DECEMBER										
74	02-12-2024	78	39	13	17	0.76	16	0.02	**78**	Satisfactory
75	05-12-2024	72	35	12	17	0.62	15	0.01	**72**	Satisfactory
76	09-12-2024	75	37	12	16	0.85	17	0.02	**75**	Satisfactory

77	12-12-2024	79	41	13	18	0.54	17	0.06	**79**	Satisfactory
78	16-12-2024	74	36	12	17	0.93	16	0.04	**74**	Satisfactory
79	20-12-2024	82	40	12	17	0.87	17	0.03	**82**	Satisfactory
80	23-12-2024	76	35	11	16	0.59	18	0.07	**76**	Satisfactory
81	26-12-2024	72	37	11	18	0.71	16	0.04	**72**	Satisfactory
82	30-12-2024	78	41	11	17	0.94	18	0.03	**78**	Satisfactory
JANUARY										
83	02-01-2025	81	44	13	17	0.79	17	0.03	**81**	Satisfactory
84	06-01-2025	77	41	12	17	1.04	17	0.02	**77**	Satisfactory
85	09-01-2025	72	35	13	17	0.93	18	0.03	**72**	Satisfactory
86	13-01-2025	84	41	11	17	1.17	17	0.03	**84**	Satisfactory
87	16-01-2025	75	37	11	15	0.85	18	0.02	**75**	Satisfactory
88	20-01-2025	79	43	11	16	1.08	18	0.04	**79**	Satisfactory
89	23-01-2025	87	46	12	18	0.91	17	0.05	**87**	Satisfactory
90	27-01-2025	73	39	12	17	1.23	19	0.08	**73**	Satisfactory
91	30-01-2025	79	35	12	17	0.87	19	0.06	**79**	Satisfactory
FEBRUARY										
92	03-02-2025	85	40	13	18	1.28	18	0.03	**85**	Satisfactory
93	06-02-2025	74	38	12	18	0.96	18	0.04	**74**	Satisfactory
94	10-02-2025	80	39	11	16	1.13	18	0.06	**80**	Satisfactory
95	13-02-2025	72	36	12	17	1.02	18	0.04	**72**	Satisfactory
96	17-02-2025	80	38	12	17	0.69	19	0.02	**80**	Satisfactory
97	20-02-2025	86	43	11	17	0.84	19	0.04	**86**	Satisfactory
98	24-02-2025	76	36	13	17	1.17	20	0.05	**76**	Satisfactory
99	27-02-2025	81	41	11	16	0.93	20	0.03	**81**	Satisfactory
MARCH										
100	03-03-2025	77	36	13	18	1.05	21	0.05	**77**	Satisfactory
101	06-03-2025	71	35	11	16	1.21	21	0.03	**71**	Satisfactory
102	10-03-2025	79	38	12	17	0.79	22	0.04	**79**	Satisfactory
103	13-03-2025	83	41	13	16	1.14	23	0.07	**83**	Satisfactory
104	17-03-2025	76	37	11	16	1.37	22	0.04	**76**	Satisfactory
105	20-03-2025	70	34	11	17	1.10	25	0.03	**70**	Satisfactory
106	24-03-2025	79	38	12	16	0.98	22	0.06	**79**	Satisfactory

107	27-03-2025	68	35	10	14	1.26	21	0.04	**68**	Satisfactory
108	31-03-2025	78	39	11	15	1.12	23	0.03	**78**	Satisfactory
* No Monitoring										

Station: Rooftop of Ravindra Bhavan Building-775										**City: Margao**
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	88	19	5	19	NOT MONITORED			**88**	Satisfactory
2	04-04-2024	61	18	4	12				**61**	Satisfactory
3	08-04-2024	105	39	6	16				**103**	Moderate
4	11-04-2024	66	14	2	12				**66**	Satisfactory
5	15-04-2024	62	23	6	12				**62**	Satisfactory
6	18-04-2024	79	20	6	16				**79**	Satisfactory
7	22-04-2024	77	15	5	25				**77**	Satisfactory
8	25-04-2024	71	17	5	13				**71**	Satisfactory
9	29-04-2024	74	26	8	14				**74**	Satisfactory
10	30-04-2024	69	15	5	17				**69**	Satisfactory
MAY										
11	06-05-2024	82	21	6	20	NOT MONITORED			**82**	Satisfactory
12	09-05-2024	96	27	5	20				**96**	Satisfactory
13	13-05-2024	69	18	6	15				**69**	Satisfactory
14	16-05-2024	43	9	2	5				**43**	Good
15	20-05-2024	53	17	2	11				**53**	Satisfactory
16	21-05-2024	53	12	4	10				**108**	Satisfactory
17	23-05-2024	112	32	2	5				**43**	Moderate
18	24-05-2024	43	10	2	5				**94**	Good
19	27-05-2024	94	27	2	5				**81**	Satisfactory
20	30-05-2024	81	16	4	10					Satisfactory

JUNE										
21	03-06-2024	42	10	2	5	NOT MONITORED			**42**	Good
22	04-06-2024	36	5	2	5				**36**	Good
23	06-06-2024	39	9	2	5				**39**	Good
24	07-06-2024	35	5	2	5				**35**	Good
25	10-06-2024	40	8	2	9				**40**	Good
26	13-06-2024	37	8	2	5				**37**	Good
27	17-06-2024	34	8	2	5				**34**	Good
28	24-06-2024	50	9	2	5				**50**	Satisfactory
29	27-06-2024	40	9	2	5				**40**	Good
JULY										
30	01-07-2024	37	6	2	4	NOT MONITORED			**37**	Good
31	04-07-2024	29	6	3	3				**29**	Good
32	08-07-2024	28	9	2	3				**28**	Good
33	11-07-2024	23	3	2	4				**23**	Good
34	17-07-2024	20	10	5	9	0.37	2	0.004	**20**	Good
35	20-07-2024	19	10	5	9	0.17	1	0.005	**19**	Good
36	24-07-2024	21	14	7	10	0.33	1	0.006	**23**	Good
37	28-07-2024	24	14	6	14	0.71	3	0.007	**36**	Good
38	30-07-2024	22	13	6	10	0.42	2	0.006	**22**	Good
AUGUST										
39	02-08-2024	24	15	5	10	0.29	4	0.010	**24**	Good
40	07-08-2024	26	15	6	10	0.36	5	0.010	**26**	Good
41	09-08-2024	27	15	6	13	0.28	5	0.020	**27**	Good
42	14-08-2024	29	16	7	13	0.25	5	0.010	**29**	Good
43	16-08-2024	26	15	7	12	0.34	6	0.010	**26**	Good
44	21-08-2024	29	15	7	13	0.31	6	0.010	**29**	Good
45	23-08-2024	25	14	6	13	0.27	5	0.010	**25**	Good
46	28-08-2024	32	18	7	13	0.34	7	0.010	**32**	Good
47	30-08-2024	30	16	7	14	0.28	7	0.010	**30**	Good

SEPTEMBER										
48	04-09-2024	32	19	8	11	0.22	7	0.010	**32**	Good
49	06-09-2024	34	17	8	13	0.32	8	0.010	**34**	Good
50	11-09-2024	35	18	8	14	0.28	8	0.010	**35**	Good
51	13-09-2024	36	19	8	14	0.38	9	0.010	**36**	Good
52	18-09-2024	37	20	8	13	0.42	9	0.020	**37**	Good
53	20-09-2024	39	20	8	12	0.53	9	0.010	**39**	Good
54	25-09-2024	34	18	7	11	0.24	8	0.010	**34**	Good
55	27-09-2024	36	18	8	14	0.31	9	0.010	**36**	Good
OCTOBER										
56	01-10-2024	38	19	9	16	0.29	9	0.020	**38**	Good
57	04-10-2024	41	20	9	16	0.34	10	0.020	**41**	Good
58	09-10-2024	42	20	9	16	0.41	10	0.020	**42**	Good
59	11-10-2024	45	22	9	17	0.31	11	0.010	**45**	Good
60	16-10-2024	49	25	10	15	0.27	11	0.020	**49**	Good
61	18-10-2024	56	27	11	17	0.52	13	0.010	**56**	Satisfactory
62	23-10-2024	51	25	10	15	0.35	11	0.010	**51**	Satisfactory
63	25-10-2024	65	32	9	17	0.19	13	0.010	**65**	Satisfactory
64	30-10-2024	91	43	10	16	1.03	14	0.020	**91**	Satisfactory
NOVEMBER										
65	01-11-2024	73	35	10	16	0.48	17	0.01	**73**	Satisfactory
66	06-11-2024	65	33	10	17	0.55	18	0.09	**65**	Satisfactory
67	08-11-2024	80	36	10	16	0.32	15	0.03	**80**	Satisfactory
68	13-11-2024	71	37	11	18	0.51	17	0.03	**71**	Satisfactory
69	15-11-2024	65	32	10	16	0.38	16	0.04	**65**	Satisfactory
70	20-11-2024	69	36	10	17	0.42	19	0.02	**69**	Satisfactory
71	22-11-2024	75	38	10	17	0.33	17	0.04	**75**	Satisfactory
72	27-11-2024	72	35	9	15	0.46	16	0.02	**72**	Satisfactory
73	29-11-2024	66	32	11	16	0.59	18	0.02	**66**	Satisfactory
DECEMBER										
74	04-12-2024	70	37	10	15	0.67	17	0.03	**70**	Satisfactory
75	06-12-2024	64	34	10	15	0.73	16	0.03	**64**	Satisfactory
76	11-12-2024	69	35	11	15	0.52	16	0.04	**69**	Satisfactory

77	13-12-2024	74	36	10	15	0.36	16	0.03	**74**	Satisfactory
78	18-12-2024	79	40	11	16	0.84	17	0.06	**79**	Satisfactory
79	20-12-2024	66	35	10	15	0.45	15	0.04	**66**	Satisfactory
80	23-12-2024	71	37	12	16	0.62	17	0.03	**71**	Satisfactory
81	27-12-2024	75	39	10	16	0.59	18	0.03	**75**	Satisfactory
JANUARY										
82	01-01-2025	66	34	10	16	0.81	17	0.04	**66**	Satisfactory
83	03-01-2025	74	39	11	16	0.92	16	0.03	**74**	Satisfactory
84	08-01-2025	67	35	10	16	0.89	17	0.03	**67**	Satisfactory
85	10-01-2025	63	35	11	17	0.78	18	0.01	**63**	Satisfactory
86	15-01-2025	70	32	10	15	0.64	17	0.04	**70**	Satisfactory
87	17-01-2025	77	36	11	15	0.95	16	0.05	**77**	Satisfactory
88	22-01-2025	83	42	9	15	0.84	17	0.04	**83**	Satisfactory
89	24-01-2025	72	34	11	16	1.13	18	0.07	**72**	Satisfactory
90	29-01-2025	70	36	10	15	0.90	18	0.05	**70**	Satisfactory
91	31-01-2025	77	40	10	15	1.04	16	0.04	**77**	Satisfactory
FEBRUARY										
92	05-02-2025	72	36	11	16	0.96	18	0.03	**72**	Satisfactory
93	07-02-2025	64	34	11	16	1.07	18	0.07	**64**	Satisfactory
94	12-02-2025	69	38	10	14	0.92	18	0.06	**69**	Satisfactory
95	14-02-2025	75	37	11	16	0.81	18	0.04	**75**	Satisfactory
96	19-02-2025	67	34	12	15	1.15	19	0.05	**67**	Satisfactory
97	21-02-2025	73	38	10	15	1.26	20	0.04	**73**	Satisfactory
98	26-02-2025	79	39	10	15	1.04	19	0.06	**79**	Satisfactory
99	28-02-2025	66	32	11	15	0.88	20	0.05	**66**	Satisfactory
MARCH										
100	05-03-2025	77	38	12	16	1.16	19	0.05	**77**	Satisfactory
101	07-03-2025	68	35	10	16	1.31	22	0.09	**68**	Satisfactory
102	12-03-2025	74	36	10	16	1.24	23	0.09	**74**	Satisfactory
103	15-03-2025	66	33	12	17	1.09	21	0.02	**66**	Satisfactory
104	19-03-2025	72	37	12	16	1.18	23	0.05	**72**	Satisfactory

105	21-03-2025	75	34	11	14	1.03	21	0.06	**75**	Satisfactory
106	26-03-2025	65	32	10	13	0.93	21	0.04	**65**	Satisfactory
107	28-03-2025	71	34	11	14	0.87	20	0.03	**71**	Satisfactory
* No Monitoring										

Station: Residence of Mr. Rama Naik, Assanora Junction-634										**City: Assanora**
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	66	21	6	21	NOT MONITORED			**66**	Satisfactory
2	04-04-2024	72	27	7	16				**72**	Satisfactory
3	08-04-2024	71	31	6	16				**71**	Satisfactory
4	12-04-2024	85	22	4	18				**85**	Satisfactory
5	15-04-2024	83	19	6	18				**83**	Satisfactory
6	18-04-2024	78	30	7	18				**78**	Satisfactory
7	22-04-2024	89	17	4	17				**89**	Satisfactory
8	25-04-2024	86	21	5	17				**86**	Satisfactory
9	29-04-2024	82	25	6	18				**82**	Satisfactory
10	30-04-2024	86	28	5	18				**86**	Satisfactory
MAY										
11	06-05-2024	87	18	5	17	MONITORED			**87**	Satisfactory
12	09-05-2024	89	21	2	12				**89**	Satisfactory
13	13-05-2024	78	30	5	15				**78**	Satisfactory
14	16-05-2024	80	16	4	10				**80**	Satisfactory
15	20-05-2024	52	7	2	5				**52**	Satisfactory
16	21-05-2024	77	22	5	16				**77**	Satisfactory
17	23-05-2024	69	20	2	5				**69**	Satisfactory
18	24-05-2024	63	17	4	17				**63**	Satisfactory
19	27-05-2024	76	21	4	10				**76**	Satisfactory
20	30-05-2024	104	30	2	9				**102**	Moderate

JUNE										
21	03-06-2024	74	8	2	9	NOT MONITORED			**74**	Satisfactory
22	04-06-2024	48	16	2	5				**48**	Good
23	06-06-2024	53	15	2	11				**53**	Satisfactory
24	07-06-2024	43	10	5	11				**43**	Good
25	10-06-2024	72	18	2	10				**72**	Satisfactory
26	13-06-2024	35	10	2	5				**35**	Good
27	18-06-2024	38	10	2	5				**38**	Good
28	24-06-2024	34	4	2	5				**34**	Good
29	27-06-2024	31	7	2	5				**31**	Good
JULY										
	01-07-2024	33	6	1	4	Not Monitored			**33**	Good
31	04-07-2024	34	11	2	2				**34**	Good
32	08-07-2024	36	14	2	4				**36**	Good
33	11-07-2024	32	17	2	5				**32**	Good
34	17-07-2024	19	9	5	9	0.15	1	0.004	**19**	Good
35	19-07-2024	23	14	5	10	0.18	2	0.003	**23**	Good
36	23-07-2024	23	13	5	10	0.27	1	0.003	**23**	Good
37	26-07-2024	25	13	6	12	0.28	2	0.003	**25**	Good
38	30-07-2024	21	12	6	10	0.31	4	0.003	**21**	Good
AUGUST										
39	02-08-2024	23	13	6	10	0.25	3	0.010	**23**	Good
40	06-08-2024	25	14	6	12	0.31	4	0.010	**25**	Good
41	09-08-2024	26	13	7	12	0.38	6	0.010	**26**	Good
42	13-08-2024	27	15	7	13	0.45	6	0.010	**27**	Good
43	16-08-2024	30	16	7	14	0.37	6	0.010	**30**	Good
44	20-08-2024	28	16	7	14	0.42	7	0.010	**28**	Good
45	23-08-2024	26	14	6	12	0.39	6	0.010	**26**	Good
46	27-08-2024	30	15	8	13	0.45	6	0.010	**30**	Good
47	30-08-2024	29	16	7	14	0.36	7	0.010	**29**	Good

SEPTEMBER										
48	03-09-2024	32	16	8	14	0.44	7	0.010	**32**	Good
49	06-09-2024	32	17	8	14	0.47	8	0.010	**32**	Good
50	10-09-2024	35	18	8	15	0.40	8	0.010	**35**	Good
51	13-09-2024	36	19	9	16	0.32	8	0.020	**36**	Good
52	17-09-2024	39	19	9	16	0.39	9	0.010	**39**	Good
53	20-09-2024	40	20	9	17	0.41	9	0.010	**40**	Good
54	24-09-2024	34	17	9	15	0.38	9	0.020	**34**	Good
55	27-09-2024	36	19	9	16	0.46	9	0.020	**36**	Good
OCTOBER										
57	01-10-2024	39	20	9	17	0.43	10	0.010	**39**	Good
58	04-10-2024	41	21	10	17	0.37	10	0.020	**41**	Good
59	08-10-2024	43	22	10	17	0.41	10	0.010	**43**	Good
59	11-10-2024	51	25	10	19	0.28	11	0.020	**51**	Satisfactory
60	15-10-2024	57	26	8	17	0.18	12	0.020	**57**	Satisfactory
61	18-10-2024	64	31	11	18	0.34	13	0.020	**64**	Satisfactory
62	22-10-2024	59	29	10	17	0.25	14	0.010	**59**	Satisfactory
63	25-10-2024	69	33	9	17	0.21	16	0.020	**69**	Satisfactory
64	29-10-2024	75	37	10	16	0.36	15	0.010	**75**	Satisfactory
NOVEMBER										
65	01-11-2024	63	33	10	17	0.41	16	0.01	**63**	Satisfactory
66	05-11-2024	59	30	9	15	0.33	17	0.02	**59**	Satisfactory
67	08-11-2024	71	38	10	17	0.25	15	0.02	**71**	Satisfactory
68	12-11-2024	69	34	11	14	0.58	16	0.02	**69**	Satisfactory
69	15-11-2024	61	32	10	16	0.44	16	0.01	**61**	Satisfactory
70	19-11-2024	66	35	10	15	0.32	15	0.03	**66**	Satisfactory
71	22-11-2024	63	33	10	15	0.56	15	0.02	**63**	Satisfactory
72	27-11-2024	69	36	9	16	0.28	14	0.02	**69**	Satisfactory
73	29-11-2024	75	37	11	16	0.37	16	0.02	**75**	Satisfactory
DECEMBER										
74	03-12-2024	72	35	11	16	0.42	15	0.01	**72**	Satisfactory
75	06-12-2024	65	31	9	14	0.37	16	0.01	**65**	Satisfactory

76	10-12-2024	77	38	10	16	0.51	17	0.03	**77**	Satisfactory
77	13-12-2024	70	35	10	16	0.69	16	0.02	**70**	Satisfactory
78	17-12-2024	75	37	10	15	0.48	17	0.02	**75**	Satisfactory
79	20-12-2024	68	36	10	15	0.56	16	0.03	**68**	Satisfactory
80	24-12-2024	63	34	11	14	0.73	17	0.03	**63**	Satisfactory
81	27-12-2024	66	34	9	13	0.85	16	0.01	**66**	Satisfactory
82	31-12-2024	73	39	11	15	0.47	18	0.01	**73**	Satisfactory
JANUARY										
83	03-01-2025	68	32	11	15	0.70	17	0.01	**68**	Satisfactory
84	07-01-2025	72	37	11	15	0.89	16	0.01	**72**	Satisfactory
85	10-01-2025	65	35	10	14	0.65	16	0.03	**65**	Satisfactory
86	14-01-2025	69	33	10	14	0.53	17	0.02	**69**	Satisfactory
87	17-01-2025	75	38	10	15	0.82	18	0.02	**75**	Satisfactory
88	21-01-2025	66	36	10	14	0.77	16	0.03	**66**	Satisfactory
89	24-01-2025	62	32	8	13	0.61	17	0.03	**62**	Satisfactory
90	28-01-2025	68	37	9	13	0.59	17	0.01	**68**	Satisfactory
91	31-01-2025	74	35	10	14	0.85	18	0.01	**74**	Satisfactory
FEBRUARY										
92	04-02-2025	76	39	10	14	0.62	17	0.03	**76**	Satisfactory
93	07-02-2025	69	34	10	15	0.96	18	0.04	**69**	Satisfactory
94	11-02-2025	71	36	10	14	0.70	18	0.03	**71**	Satisfactory
95	14-02-2025	67	32	9	16	0.91	18	0.04	**67**	Satisfactory
96	18-02-2025	73	35	10	15	1.04	19	0.03	**73**	Satisfactory
97	21-02-2025	78	39	10	15	0.82	19	0.02	**78**	Satisfactory
98	26-02-2025	71	32	11	15	0.93	18	0.04	**71**	Satisfactory
99	28-02-2025	64	35	10	16	0.98	20	0.03	**64**	Satisfactory
MARCH										
100	04-03-2025	69	35	9	14	0.75	20	0.03	**69**	Satisfactory
101	07-03-2025	65	35	11	14	1.08	18	0.03	**65**	Satisfactory
102	11-03-2025	74	34	10	14	0.89	21	0.02	**74**	Satisfactory
103	14-03-2025	68	37	10	14	0.73	21	0.02	**68**	Satisfactory
104	18-03-2025	64	32	10	15	1.32	22	0.03	**66**	Satisfactory

105	21-03-2025	73	36	9	13	0.94	22	0.02	**73**	Satisfactory
106	25-03-2025	67	32	10	14	1.21	23	0.03	**67**	Satisfactory
107	28-03-2025	63	30	8	13	1.15	20	0.02	**63**	Satisfactory
* No Monitoring										

Station: Residence of Mr. Sagun Ramkrishna Fadte-633										**City: Amona**
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	74	22	4	22	NOT MONITORED			**74**	Satisfactory
2	04-04-2024	96	24	3	20				**96**	Satisfactory
3	08-04-2024	79	25	4	20				**79**	Satisfactory
4	11-04-2024	62	17	4	17				**62**	Satisfactory
5	15-04-2024	95	14	4	17				**95**	Satisfactory
6	18-04-2024	58	12	4	16				**58**	Satisfactory
7	22-04-2024	59	8	3	19				**59**	Satisfactory
8	25-04-2024	57	10	4	13				**57**	Satisfactory
9	29-04-2024	89	19	4	16				**89**	Satisfactory
10	30-04-2024	66	24	4	16				**66**	Satisfactory
MAY										
11	06-05-2024	57	16	5	14	NOT MONITORED			**57**	Satisfactory
12	09-05-2024	77	21	7	20				**77**	Satisfactory
13	13-05-2024	73	16	5	16				**73**	Satisfactory
14	16-05-2024	37	7	2	5				**37**	Good
15	20-05-2024	45	13	2	9				**45**	Good
16	21-05-2024	64	19	6	14				**64**	Satisfactory
17	23-05-2024	47	12	4	5				**47**	Good
18	24-05-2024	56	15	5	18				**56**	Satisfactory
19	27-05-2024	69	24	4	5				**69**	Satisfactory
20	30-05-2024	52	20	2	5				**52**	Satisfactory

JUNE										
21	03-06-2024	59	13	2	10	NOT MONITORED			**59**	Satisfactory
22	04-06-2024	53	16	2	11				**53**	Satisfactory
23	06-06-2024	57	10	2	9				**57**	Satisfactory
24	07-06-2024	44	14	4	11				**44**	Good
25	10-06-2024	40	10	2	5				**40**	Good
26	13-06-2024	50	14	2	9				**50**	Satisfactory
27	17-06-2024	39	8	2	5				**39**	Good
28	24-06-2024	37	8	2	5				**37**	Good
29	27-06-2024	29	6	2	5				**29**	Good
JULY										
30	01-07-2024	23	5	2	4	NOT MONITORED			**23**	Good
31	04-07-2024	24	5	1	2				**24**	Good
32	08-07-2024	27	9	2	5				**27**	Good
33	11-07-2024	24	12	2	4				**24**	Good
34	17-07-2024	27	13	5	11	0.32	1	0.003	**27**	Good
35	19-07-2024	23	12	6	8	0.17	1	0.003	**23**	Good
36	23-07-2024	36	14	7	14	0.55	2	0.004	**36**	Good
37	26-07-2024	40	21	8	18	0.68	5	0.003	**40**	Good
38	30-07-2024	37	16	7	16	0.55	4	0.005	**37**	Good
AUGUST										
39	01-08-2024	36	18	7	15	0.69	4	0.020	**36**	Good
40	05-08-2024	37	20	8	15	0.72	5	0.020	**37**	Good
41	08-08-2024	38	22	9	16	0.83	7	0.010	**42**	Good
42	12-08-2024	42	24	10	19	0.96	7	0.010	**48**	Good
43	16-08-2024	41	23	9	18	0.98	8	0.010	**49**	Good
44	19-08-2024	41	23	9	19	0.91	8	0.020	**46**	Good
45	22-08-2024	32	17	9	17	0.62	7	0.010	**32**	Good
46	26-08.2024	36	20	9	18	0.73	8	0.010	**37**	Good
47	29-08-2024	40	21	10	18	0.68	9	0.010	**40**	Good

SEPTEMBER										
48	02-09-2024	45	22	10	17	0.76	9	0.010	**45**	Good
49	05-09-2024	42	23	10	19	0.84	9	0.020	**42**	Good
50	10-09-2024	48	24	11	19	0.92	10	0.010	**48**	Good
51	12-09-2024	48	25	11	19	0.97	10	0.020	**49**	Good
52	16-09-2024	52	25	11	20	1.05	11	0.010	**53**	Satisfactory
53	19-09-2024	52	28	12	21	1.11	12	0.010	**56**	Satisfactory
54	23-09-2024	47	23	11	18	0.95	10	0.010	**48**	Good
55	26-09-2024	44	21	10	18	0.87	11	0.010	**44**	Good
56	30-09-2024	49	24	11	20	0.91	12	0.020	**49**	Good
OCTOBER										
57	03-10-2024	54	25	12	20	0.96	12	0.020	**54**	Satisfactory
58	07-10-2024	59	28	13	21	0.83	13	0.020	**59**	Satisfactory
59	10-10-2024	65	30	13	22	0.72	14	0.010	**65**	Satisfactory
60	14-10-2024	69	35	13	23	0.95	15	0.020	**69**	Satisfactory
61	17-10-2024	74	39	15	24	1.17	16	0.020	**74**	Satisfactory
62	21-10-2024	66	32	13	22	0.88	14	0.010	**66**	Satisfactory
63	24-10-2024	78	40	14	23	1.05	16	0.010	**78**	Satisfactory
64	28-10-2024	80	40	12	20	0.83	18	0.020	**80**	Satisfactory
65	31-10-2024	76	36	12	22	0.97	18	0.020	**76**	Satisfactory
NOVEMBER										
66	04-11-2024	85	43	14	20	0.96	18	0.06	**85**	Satisfactory
67	07-11-2024	96	47	12	21	1.12	22	0.12	**96**	Satisfactory
68	11-11-2024	97	47	14	19	0.83	17	0.03	**97**	Satisfactory
69	14-11-2024	92	43	11	20	0.78	16	0.04	**92**	Satisfactory
70	18-11-2024	104	48	13	18	0.95	19	0.46	**103**	Moderate
71	21-11-2024	90	43	12	16	0.64	16	0.09	**90**	Satisfactory
72	25-11-2024	95	46	13	18	0.33	18	0.04	**95**	Satisfactory
73	28-11-2024	83	41	13	17	0.57	19	0.03	**83**	Satisfactory
DECEMBER										
74	02-12-2024	87	42	12	17	0.69	19	0.01	**87**	Satisfactory
75	05-12-2024	72	35	11	16	0.5	17	0.16	**72**	Satisfactory
76	09-12-2024	80	38	12	17	0.71	17	0.13	**80**	Satisfactory

77	12-12-2024	83	39	10	16	0.64	17	0.11	**83**	Satisfactory
78	16-12-2024	76	37	11	17	0.39	16	0.03	**76**	Satisfactory
79	20-12-2024	79	40	12	16	0.45	18	0.07	**79**	Satisfactory
80	23-12-2024	69	36	11	15	0.58	18	0.02	**69**	Satisfactory
81	26-12-2024	77	38	12	17	0.73	19	0.05	**77**	Satisfactory
82	30-12-2024	71	36	12	17	0.92	19	0.20	**71**	Satisfactory
JANUARY										
83	02-01-2025	77	38	11	16	0.89	17	0.03	**77**	Satisfactory
84	06-01-2025	83	41	13	17	0.95	18	0.06	**83**	Satisfactory
85	09-01-2025	79	39	12	16	1.02	16	0.05	**79**	Satisfactory
86	13-01-2025	68	36	11	17	0.84	18	0.07	**68**	Satisfactory
87	16-01-2025	78	41	11	17	0.91	19	0.11	**78**	Satisfactory
88	20-01-2025	73	37	13	17	1.13	18	0.05	**73**	Satisfactory
89	23-01-2025	81	36	11	18	0.88	19	0.07	**81**	Satisfactory
90	27-01-2025	75	39	10	17	0.79	18	0.10	**75**	Satisfactory
91	30-01-2025	74	35	11	17	0.96	18	0.09	**74**	Satisfactory
FEBRUARY										
92	01-02-2025	87	46	11	17	1.22	19	0.04	**87**	Satisfactory
93	04-02-2025	76	37	11	15	0.97	20	0.08	**76**	Satisfactory
94	08-02-2025	68	33	10	15	1.09	19	0.05	**68**	Satisfactory
95	11-02-2025	73	38	12	17	0.76	19	0.08	**73**	Satisfactory
96	15-02-2025	70	35	11	16	0.85	18	0.10	**70**	Satisfactory
97	18-02-2025	65	32	10	15	1.14	20	0.05	**65**	Satisfactory
98	22-02-2025	78	37	12	17	1.28	19	0.08	**78**	Satisfactory
99	25-02-2025	72	34	11	16	1.03	22	0.05	**72**	Satisfactory
MARCH										
100	03-03-2025	71	35	11	16	1.13	23	0.05	**71**	Satisfactory
101	06-03-2025	64	33	11	16	1.26	23	0.06	**64**	Satisfactory
102	10-03-2025	75	37	12	16	0.89	20	0.03	**75**	Satisfactory
103	13-03-2025	65	33	12	17	1.05	25	0.09	**65**	Satisfactory
104	17-03-2025	69	37	11	16	1.19	21	0.07	**69**	Satisfactory
105	20-03-2025	75	37	11	15	1.22	23	0.09	**75**	Satisfactory
106	24-03-2025	69	35	12	17	0.97	22	0.06	**69**	Satisfactory

107	27-03-2025	72	34	11	16	1.08	20	0.04	**72**	Satisfactory
108	31-03-2025	64	32	10	14	1.15	24	0.02	**64**	Satisfactory
* No Monitoring										

Station: Municipality Building-632										**City: Bicholim**
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	72	16	7	15	NOT MONITORED			**72**	Satisfactory
2	04-04-2024	80	26	4	15				**80**	Satisfactory
3	08-04-2024	84	22	3	25				**84**	Satisfactory
4	12-04-2024	87	19	3	15				**87**	Satisfactory
5	15-04-2024	69	18	6	15				**69**	Satisfactory
6	18-04-2024	68	15	3	18				**68**	Satisfactory
7	22-04-2024	56	10	3	13				**56**	Satisfactory
8	25-04-2024	56	15	3	18				**56**	Satisfactory
9	29-04-2024	75	17	7	18				**75**	Satisfactory
10	30-04-2024	50	12	5	17				**50**	Good
MAY										
11	06-05-2024	85	21	6	16	NOT MONITORED			**85**	Satisfactory
12	09-05-2024	62	15	6	12				**62**	Satisfactory
13	13-05-2024	66	19	6	18				**66**	Satisfactory
14	16-05-2024	50	10	2	9				**50**	Satisfactory
15	20-05-2024	44	9	2	5				**44**	Good
16	21-05-2024	52	14	2	7				**52**	Satisfactory
17	23-05-2024	43	12	2	5				**43**	Good
18	24-05-2024	46	15	2	4				**46**	Good
19	27-05-2024	58	16	4	5				**58**	Satisfactory
20	30-05-2024	55	15	2	5				**55**	Satisfactory

JUNE										
21	03-06-2024	53	16	2	9	NOT MONITORED			**53**	Satisfactory
22	04-06-2024	45	10	2	11				**45**	Good
23	06-06-2024	32	9	2	5				**32**	Good
24	07-06-2024	29	4	4	5				**29**	Good
25	10-06-2024	42	11	2	10				**42**	Good
26	13-06-2024	26	7	2	5				**26**	Good
27	18-06-2024	34	9	2	5				**34**	Good
28	24-06-2024	33	5	2	5				**33**	Good
29	27-06-2024	27	5	2	5				**27**	Good
JULY										
30	01-07-2024	28	3	3	4	Not Monitored			**28**	Good
31	04-07-2024	26	6	1	3				**26**	Good
32	08-07-2024	31	8	1	4				**31**	Good
33	11-07-2024	29	9	2	5				**29**	Good
34	17-07-2024	24	13	6	12	0.51	2	0.005	**26**	Good
35	19-07-2024	27	15	7	13	0.49	2	0.004	**27**	Good
36	23-07-2024	26	12	6	13	0.34	2	0.002	**26**	Good
37	26-07-2024	28	14	8	13	0.41	3	0.005	**28**	Good
38	30-07-2024	27	12	7	12	0.37	4	0.003	**27**	Good
AUGUST										
39	02-08-2024	23	10	7	11	0.69	4	0.010	**35**	Good
40	06-08-2024	25	15	7	12	0.54	4	0.010	**27**	Good
41	09-08-2024	24	13	7	13	0.46	5	0.010	**24**	Good
42	13-08-2024	29	15	7	14	0.37	5	0.010	**29**	Good
43	16-08-2024	27	16	8	14	0.45	6	0.010	**27**	Good
44	20-08-2024	30	17	7	13	0.53	7	0.010	**30**	Good
45	23-08-2024	27	15	7	12	0.47	7	0.010	**27**	Good
46	27-08-2024	31	16	7	14	0.52	7	0.010	**31**	Good
47	30-08-2024	33	18	8	14	0.58	8	0.010	**33**	Good

SEPTEMBER										
48	03-09-2024	36	19	8	15	0.55	8	0.010	**36**	Good
49	06-09-2024	36	18	8	15	0.49	8	0.020	**36**	Good
50	10-09-2024	37	20	8	15	0.43	9	0.010	**37**	Good
51	13-09-2024	39	21	8	16	0.51	9	0.010	**39**	Good
52	17-09-2024	41	23	9	16	0.64	9	0.010	**41**	Good
53	20-09-2024	43	24	9	16	0.58	9	0.010	**43**	Good
54	24-09-2024	34	18	7	15	0.42	9	0.010	**34**	Good
55	27-09-2024	36	18	8	15	0.47	10	0.010	**36**	Good
OCTOBER										
57	01-10-2024	38	19	8	16	0.37	10	0.010	**38**	Good
58	04-10-2024	39	20	8	16	0.41	10	0.020	**39**	Good
59	08-10-2024	42	20	9	16	0.28	11	0.010	**42**	Good
59	11-10-2024	54	24	9	17	0.35	12	0.020	**54**	Satisfactory
60	15-10-2024	60	28	10	17	0.22	12	0.020	**60**	Satisfactory
61	18-10-2024	67	33	10	18	0.49	13	0.020	**67**	Satisfactory
62	22-10-2024	59	28	11	18	0.38	13	0.010	**59**	Satisfactory
63	25-10-2024	74	36	11	16	0.27	14	0.020	**74**	Satisfactory
64	29-10-2024	68	33	11	17	0.56	14	0.020	**68**	Satisfactory
NOVEMBER										
65	01-11-2024	63	31	10	16	0.71	14	0.13	**63**	Satisfactory
66	05-11-2024	77	40	14	18	0.48	17	0.03	**77**	Satisfactory
67	08-11-2024	85	44	12	17	0.63	14	0.02	**85**	Satisfactory
68	12-11-2024	93	44	13	21	0.51	15	0.04	**93**	Satisfactory
69	15-11-2024	81	37	10	16	0.68	15	0.01	**81**	Satisfactory
70	19-11-2024	86	42	11	18	0.43	17	0.07	**86**	Satisfactory
71	22-11-2024	79	38	11	16	0.54	16	0.02	**79**	Satisfactory
72	26-11-2024	85	41	9	15	0.60	17	0.04	**85**	Satisfactory
73	29-11-2024	93	44	12	17	0.39	17	0.02	**93**	Satisfactory
DECEMBER										
74	03-12-2024	82	41	11	17	0.46	18	0.01	**82**	Satisfactory
75	06-12-2024	96	47	11	17	0.89	19	0.08	**96**	Satisfactory
76	10-12-2024	76	37	11	16	0.53	18	0.03	**76**	Satisfactory

77	13-12-2024	93	45	12	17	0.62	19	0.05	**93**	Satisfactory
78	17-12-2024	105	49	12	17	0.95	18	0.08	**104**	Moderate
79	20-12-2024	86	43	12	16	0.74	17	0.05	**86**	Satisfactory
80	24-12-2024	93	45	13	16	1.03	17	0.06	**93**	Satisfactory
81	27-12-2024	101	47	13	18	0.82	19	0.08	**101**	Moderate
82	31-12-2024	116	52	13	19	0.94	17	0.18	**110**	Moderate
JANUARY										
83	03-01-2025	108	42	12	17	0.98	18	0.06	**105**	Moderate
84	07-01-2025	104	46	13	18	1.25	18	0.11	**102**	Moderate
85	10-01-2025	98	44	13	18	1.04	18	0.15	**98**	Satisfactory
86	14-01-2025	107	49	12	18	1.13	18	0.13	**105**	Moderate
87	17-01-2025	114	47	13	18	1.29	19	0.20	**110**	Moderate
88	21-01-2025	103	50	14	19	1.34	17	0.14	**102**	Moderate
89	24-01-2025	93	44	13	18	1.16	18	0.17	**93**	Satisfactory
90	28-01-2025	86	42	11	16	1.09	19	0.19	**86**	Satisfactory
91	31-01-2025	91	44	11	18	0.96	19	0.17	**91**	Satisfactory
FEBRUARY										
92	04-02-2025	83	40	12	18	1.07	18	0.18	**83**	Satisfactory
93	07-02-2025	89	43	13	18	1.38	20	0.17	**89**	Satisfactory
94	11-02-2025	85	41	13	17	1.23	19	0.18	**85**	Satisfactory
95	14-02-2025	90	45	13	18	1.17	20	0.20	**90**	Satisfactory
96	18-02-2025	95	45	13	17	0.98	22	0.15	**95**	Satisfactory
97	21-02-2025	87	41	13	18	0.85	21	0.18	**87**	Satisfactory
98	25-02-2025	81	38	13	18	1.04	23	0.16	**81**	Satisfactory
99	28-02-2025	90	44	12	17	1.15	21	0.14	**90**	Satisfactory

MARCH										
100	04-03-2025	87	42	13	18	1.26	23	0.16	**87**	Satisfactory
101	07-03-2025	82	39	12	18	1.34	23	0.23	**82**	Satisfactory
102	11-03-2025	93	43	14	18	1.21	21	0.16	**93**	Satisfactory
103	14-03-2025	85	41	12	17	1.29	22	0.18	**85**	Satisfactory
104	18-03-2025	91	43	13	17	1.10	21	0.15	**91**	Satisfactory
105	21-03-2025	90	44	13	18	0.93	24	0.24	**90**	Satisfactory
106	25-03-2025	85	39	13	18	1.41	21	0.26	**85**	Satisfactory
107	28-03-2025	78	38	13	18	1.22	23	0.19	**78**	Satisfactory
* No Monitoring										

Station: Near Ajoba temple, Honda junction-631										**City: Honda**
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	48	14	3	7	NOT MONITORED			**48**	Good
2	04-04-2024	94	25	3	13				**94**	Satisfactory
3	08-04-2024	61	19	4	16				**61**	Satisfactory
4	11-04-2024	81	19	5	13				**81**	Satisfactory
5	15-04-2024	59	14	2	15				**59**	Satisfactory
6	18-04-2024	57	11	3	17				**57**	Satisfactory
7	22-04-2024	49	19	2	14				**49**	Good
8	25-04-2024	56	17	3	16				**56**	Satisfactory
9	29-04-2024	54	8	3	15				**54**	Satisfactory
10	30-04-2024	55	10	4	12				**55**	Satisfactory

MAY										
11	06-05-2024	71	22	7	15	NOT MONITORED			**71**	Satisfactory
12	09-05-2024	69	17	4	18				**69**	Satisfactory
13	13-05-2024	61	20	5	16				**61**	Satisfactory
14	16-05-2024	53	13	2	5				**53**	Satisfactory
15	20-05-2024	61	15	2	13				**61**	Satisfactory
16	21-05-2024	55	15	6	12				**55**	Satisfactory
17	23-05-2024	31	9	2	5				**31**	Good
18	24-05-2024	57	13	7	21				**57**	Satisfactory
19	27-05-2024	64	17	5	5				**64**	Satisfactory
20	30-05-2024	43	12	2	5				**43**	Good
JUNE										
21	03-06-2024	50	11	2	9	NOT MONITORED			**50**	Satisfactory
22	04-06-2024	44	13	4	9				**44**	Good
23	06-06-2024	40	9	4	5				**40**	Good
24	07-06-2024	37	6	2	5				**37**	Good
25	10-06-2024	37	10	2	5				**37**	Good
26	13-06-2024	41	9	2	5				**41**	Good
27	17-06-2024	32	8	2	5				**32**	Good
28	24-06-2024	39	8	2	5				**39**	Good
29	27-06-2024	28	8	2	5				**28**	Good
JULY										
30	01-07-2024	25	6	3	5	NOT MONITORED			**25**	Good
31	04-07-2024	25	9	1	2				**25**	Good
32	08-07-2024	27	11	1	4				**27**	Good
33	11-07-2024	35	10	1	5				**35**	Good
34	15-07-2024	23	10	6	11	0.28	1	0.004	**23**	Good
35	18-07-2024	26	13	6	13	0.35	2	0.003	**26**	Good
36	22-07-2024	29	15	7	13	0.42	2	0.004	**29**	Good
37	25-07-2024	29	14	7	11	0.51	2	0.005	**29**	Good
38	29-07-2024	26	12	7	12	0.43	2	0.003	**26**	Good

AUGUST										
39	01-08-2024	29	15	6	12	0.56	5	0.010	**29**	Good
40	05-08-2024	25	15	6	11	0.42	4	0.020	**25**	Good
41	08-08-2024	27	13	6	14	0.37	6	0.020	**27**	Good
42	12-08-2024	28	16	7	15	0.41	6	0.010	**28**	Good
43	16-08-2024	30	16	7	15	0.48	6	0.010	**30**	Good
44	19-08-2024	30	17	7	14	0.45	7	0.010	**30**	Good
45	22-08-2024	28	15	7	14	0.32	6	0.010	**28**	Good
46	26-08-2024	29	15	6	14	0.28	6	0.010	**29**	Good
47	29-08-2024	33	18	7	15	0.35	7	0.010	**33**	Good
SEPTEMBER										
48	02-09-2024	38	20	7	15	0.41	7	0.010	**38**	Good
49	05-09-2024	34	19	7	15	0.43	7	0.030	**34**	Good
50	10-09-2024	37	19	8	16	0.35	8	0.010	**37**	Good
51	12-09-2024	37	21	8	16	0.47	8	0.020	**37**	Good
52	16-09-2024	38	20	8	17	0.52	9	0.020	**38**	Good
53	19-09-2024	37	18	8	17	0.42	9	0.020	**37**	Good
54	23-09-2024	32	18	7	16	0.33	8	0.010	**32**	Good
55	26-09-2024	35	17	7	16	0.21	8	0.020	**35**	Good
56	30-09-2024	37	19	9	17	0.39	9	0.010	**37**	Good
OCTOBER										
57	03-10-2024	40	20	9	17	0.28	10	0.020	**40**	Good
58	07-10-2024	45	22	9	18	0.33	10	0.020	**45**	Good
59	10-10-2024	46	23	9	18	0.25	11	0.010	**46**	Good
60	14-10-2024	55	25	10	18	0.37	12	0.020	**55**	Satisfactory
61	17-10-2024	59	27	10	17	0.42	13	0.020	**59**	Satisfactory
62	21-10-2024	65	32	10	19	0.25	14	0.010	**65**	Satisfactory
63	24-10-2024	61	30	11	19	0.39	16	0.020	**61**	Satisfactory
64	28-10-2024	69	34	10	20	0.44	17	0.010	**69**	Satisfactory
65	31-10-2024	73	37	10	18	0.53	13	0.020	**73**	Satisfactory

NOVEMBER										
66	04-11-2024	64	32	11	20	0.62	15	0.01	**64**	Satisfactory
67	07-11-2024	75	38	10	17	0.83	17	0.01	**75**	Satisfactory
68	11-11-2024	64	32	11	20	0.71	16	0.01	**64**	Satisfactory
69	14-11-2024	73	38	10	18	0.34	17	0.01	**73**	Satisfactory
70	18-11-2024	78	36	10	16	0.45	15	0.03	**78**	Satisfactory
71	21-11-2024	68	34	10	15	0.69	16	0.03	**68**	Satisfactory
72	25-11-2024	79	41	10	16	0.52	16	0.02	**79**	Satisfactory
73	28-11-2024	72	36	9	16	0.29	16	0.02	**72**	Satisfactory
DECEMBER										
74	02-12-2024	75	37	10	15	0.41	15	0.01	**75**	Satisfactory
75	05-12-2024	67	35	11	16	0.33	15	0.01	**67**	Satisfactory
76	09-12-2024	72	37	11	17	0.57	16	0.03	**72**	Satisfactory
77	12-12-2024	65	33	10	16	0.36	17	0.02	**65**	Satisfactory
78	16-12-2024	69	35	10	15	0.49	16	0.09	**69**	Satisfactory
79	20-12-2024	78	41	12	16	0.61	16	0.53	**78**	Satisfactory
80	23-12-2024	65	32	11	15	0.82	15	0.22	**65**	Satisfactory
81	26-12-2024	73	34	11	17	0.74	16	0.21	**73**	Satisfactory
82	30-12-2024	79	36	10	15	0.68	17	0.06	**79**	Satisfactory
JANUARY										
83	02-01-2025	71	36	12	17	0.73	16	0.02	**71**	Satisfactory
84	06-01-2025	77	40	10	15	0.88	16	0.03	**77**	Satisfactory
85	09-01-2025	69	35	10	16	0.65	17	0.05	**69**	Satisfactory
86	13-01-2025	71	38	10	14	0.54	17	0.03	**71**	Satisfactory
87	16-01-2025	66	33	10	16	0.79	16	0.06	**66**	Satisfactory
88	20-01-2025	73	39	10	15	0.92	18	0.01	**73**	Satisfactory
89	23-01-2025	64	35	10	13	0.81	18	0.06	**64**	Satisfactory
90	27-01-2025	76	37	9	14	0.59	18	0.08	**76**	Satisfactory
91	30-01-2025	75	36	10	15	0.63	17	0.10	**75**	Satisfactory

FEBRUARY										
92	03-02-2025	74	33	10	15	1.02	18	0.03	**74**	Satisfactory
93	06-02-2025	89	44	10	14	0.96	16	0.04	**89**	Satisfactory
94	10-02-2025	83	41	10	15	1.17	18	0.05	**83**	Satisfactory
95	13-02-2025	76	36	10	14	0.83	19	0.08	**76**	Satisfactory
96	17-02-2025	80	39	10	15	1.09	20	0.09	**80**	Satisfactory
97	20-02-2025	73	36	10	15	1.05	19	0.08	**73**	Satisfactory
98	24-02-2025	76	37	10	13	0.84	21	0.05	**76**	Satisfactory
99	27-02-2025	86	42	11	15	1.21	19	0.07	**86**	Satisfactory
MARCH										
100	03-03-2025	79	38	10	14	1.24	21	0	**79**	Satisfactory
101	06-03-2025	75	37	10	15	1.08	19	0	**75**	Satisfactory
102	10-03-2025	81	35	10	14	1.13	20	0	**81**	Satisfactory
103	13-03-2025	73	37	11	14	1.21	21	0	**73**	Satisfactory
104	17-03-2025	68	33	12	16	0.98	22	0	**68**	Satisfactory
105	20-03-2025	79	38	10	16	1.17	21	0	**79**	Satisfactory
106	24-03-2025	64	34	10	14	1.35	23	0	**68**	Satisfactory
107	27-03-2025	73	36	9	14	1.14	21	0	**73**	Satisfactory
108	31-03-2025	79	33	10	15	1.02	20	0	**79**	Satisfactory
* No Monitoring										

Station: Residence of J. Natekar, Usgao Junction-629									City: Usgao	
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							AQI	AIR QLTY
	Parameters	PM10	PM2.5	SO2	NO2	*CO	O3	Pb		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	91	29	5	15	NOT MONITORED			**91**	Satisfactory
2	04-04-2024	98	32	4	5				**98**	Satisfactory
3	08-04-2024	100	14	5	5				**100**	Moderate
4	11-04-2024	89	19	5	20				**89**	Satisfactory
5	15-04-2024	83	23	4	11				**83**	Satisfactory
6	18-04-2024	81	13	5	21				**81**	Satisfactory
7	22-04-2024	81	18	4	18				**81**	Satisfactory
8	25-04-2024	87	18	4	19				**87**	Satisfactory
9	29-04-2024	83	25	9	14				**83**	Satisfactory
10	30-04-2024	81	23	4	18				**81**	Satisfactory
MAY										
	06-05-2024	49	11	7	9	NOT MONITORED			**49**	Good
12	09-05-2024	86	16	6	19				**86**	Satisfactory
13	13-05-2024	84	22	5	16				**84**	Satisfactory
14	16-05-2024	49	12	2	5				**49**	Good
15	20-05-2024	53	13	2	10				**53**	Satisfactory
16	21-05-2024	62	20	2	11				**62**	Satisfactory
17	23-05-2024	74	27	2	5				**74**	Satisfactory
18	24-05-2024	68	17	5	13				**68**	Satisfactory
19	27-05-2024	72	18	5	5				**72**	Satisfactory
20	30-05-2024	82	21	2	5				**82**	Satisfactory
JUNE										

	03-06-2024	54	16	4	11	NOT MONITORED			**54**	Satisfactory
22	04-06-2024	37	6	2	10				**37**	Good
23	06-06-2024	37	9	2	5				**37**	Good
24	07-06-2024	25	4	2	5				**25**	Good
25	10-06-2024	45	11	4	5				**45**	Good
26	13-06-2024	44	10	2	5				**44**	Good
27	17-06-2024	40	7	2	5				**40**	Good
28	24-06-2024	50	12	2	5				**50**	Satisfactory
29	27-06-2024	37	9	2	5				**37**	Good
JULY										
30	01-07-2024	38	5	2	5	NOT MONITORED			**38**	Good
31	04-07-2024	34	7	2	5				**34**	Good
32	08-07-2024	32	10	2	5				**32**	Good
33	11-07-2024	36	13	2	5				**36**	Good
34	17-07-2024	24	12	6	10	0.66	4	0.004	**33**	Good
35	20-07-2024	29	13	7	13	0.54	2	0.004	**29**	Good
36	24-07-2024	28	14	8	13	0.66	2	0.006	**33**	Good
37	28-07-2024	27	14	7	12	0.58	3	0.005	**29**	Good
38	30-07-2024	32	15	7	13	0.62	2	0.002	**32**	Good
AUGUST										
39	01-08-2024	37	20	8	14	0.75	4	0.010	**38**	Good
40	05-08-2024	39	21	8	15	0.78	5	0.010	**39**	Good
41	08-08-2024	37	20	8	17	0.65	7	0.020	**37**	Good
42	12-08-2024	45	25	9	19	0.73	7	0.010	**45**	Good
43	16-08-2024	42	24	9	18	0.62	7	0.010	**42**	Good
44	19-08-2024	41	22	9	18	0.77	8	0.020	**41**	Good
45	22-08-2024	31	17	8	18	0.61	7	0.020	**31**	Good
46	26-08-2024	37	19	9	16	0.65	8	0.020	**37**	Good
47	29-08-2024	39	21	9	17	0.68	9	0.010	**39**	Good
SEPTEMBER										
48	02-09-2024	43	23	10	18	0.72	9	0.010	**43**	Good
49	05-09-2024	41	23	9	18	0.76	9	0.010	**41**	Good
50	10-09-2024	42	24	10	18	0.79	9	0.010	**42**	Good

51	12-09-2024	43	24	10	18	0.83	10	0.010	**43**	Good
52	16-09-2024	45	25	10	19	0.94	10	0.010	**47**	Good
53	19-09-2024	48	25	11	19	0.98	11	0.020	**49**	Good
54	23-09-2024	40	22	9	18	0.81	9	0.010	**41**	Good
55	26-09-2024	37	19	9	18	0.75	9	0.020	**38**	Good
56	30-09-2024	40	20	10	19	0.86	10	0.010	**43**	Good
OCTOBER										
57	03-10-2024	45	22	10	19	0.95	11	0.010	**48**	Good
58	07-10-2024	46	23	11	19	0.81	11	0.020	**46**	Good
59	10-10-2024	49	23	11	20	0.87	12	0.020	**49**	Good
60	14-10-2024	57	27	12	21	0.74	13	0.020	**57**	Satisfactory
61	17-10-2024	70	33	13	23	0.96	13	0.020	**70**	Satisfactory
62	21-10-2024	79	25	14	20	1.05	16	0.020	**79**	Satisfactory
63	24-10-2024	69	22	13	22	0.63	16	0.020	**69**	Satisfactory
64	28-10-2024	75	19	13	18	0.84	17	0.010	**75**	Satisfactory
65	31-10-2024	79	20	12	19	0.93	17	0.020	**79**	Satisfactory
NOVEMBER										
66	04-11-2024	73	34	12	18	0.72	18	0.01	**73**	Satisfactory
67	07-11-2024	85	41	14	19	0.89	20	0.01	**85**	Satisfactory
68	11-11-2024	84	46	11	17	0.61	18	0.02	**84**	Satisfactory
69	14-11-2024	79	38	12	20	0.57	17	0.04	**79**	Satisfactory
70	18-11-2024	74	36	11	18	0.78	18	0.02	**74**	Satisfactory
71	21-11-2024	80	41	11	16	0.45	15	0.02	**80**	Satisfactory
72	25-11-2024	76	38	11	18	0.66	16	0.02	**76**	Satisfactory
73	29-11-2024	83	38	11	17	0.51	17	0.03	**83**	Satisfactory
DECEMBER										
74	02-12-2024	79	38	11	16	0.43	16	0.02	**79**	Satisfactory
75	05-12-2024	86	41	10	15	0.56	15	0.01	**86**	Satisfactory
76	09-12-2024	76	38	9	16	0.37	16	0.11	**76**	Satisfactory
77	12-12-2024	83	43	10	16	0.32	17	0.02	**83**	Satisfactory
78	16-12-2024	75	36	11	17	0.49	17	0.03	**75**	Satisfactory
79	20-12-2024	84	42	13	16	0.64	18	0.04	**84**	Satisfactory

80	23-12-2024	78	40	12	16	0.71	18	0.03	**78**	Satisfactory
81	26-12-2024	81	43	12	16	0.93	19	0.01	**81**	Satisfactory
82	30-12-2024	83	41	13	17	0.84	17	0.01	**83**	Satisfactory
JANUARY										
83	02-01-2025	87	45	11	17	0.95	18	0.02	**87**	Satisfactory
84	06-01-2025	83	43	14	18	1.12	17	0.04	**83**	Satisfactory
85	09-01-2025	77	39	13	17	1.03	17	0.07	**77**	Satisfactory
86	13-01-2025	74	37	12	16	0.84	16	0.02	**74**	Satisfactory
87	16-01-2025	81	41	12	17	1.11	17	0.02	**81**	Satisfactory
88	20-01-2025	75	38	11	18	1.26	18	0.11	**75**	Satisfactory
89	23-01-2025	78	41	13	16	0.76	18	0.06	**78**	Satisfactory
90	27-01-2025	69	36	11	16	0.92	18	0.08	**69**	Satisfactory
91	30-01-2025	73	34	12	17	0.83	17	0.10	**73**	Satisfactory
FEBRUARY										
92	03-02-2025	77	38	12	17	1.21	18	0.02	**77**	Satisfactory
93	06-02-2025	84	45	11	16	0.97	18	0.03	**84**	Satisfactory
94	10-02-2025	88	41	11	16	1.10	16	0.02	**88**	Satisfactory
95	13-02-2025	81	40	12	17	1.15	17	0.01	**81**	Satisfactory
96	17-02-2025	73	36	12	16	0.85	17	0.03	**73**	Satisfactory
97	20-02-2025	81	39	11	16	0.91	20	0.02	**81**	Satisfactory
98	24-02-2025	89	45	13	18	1.29	19	0.04	**89**	Satisfactory
99	27-02-2025	76	38	12	16	1.18	21	0.02	**76**	Satisfactory
MARCH										
100	03-03-2025	74	35	11	17	1.03	19	0.04	**74**	Satisfactory
101	06-03-2025	78	40	11	15	1.38	19	0.06	**78**	Satisfactory
102	10-03-2025	71	38	12	17	0.95	22	0.03	**71**	Satisfactory
103	13-03-2025	84	41	12	18	1.21	21	0.02	**84**	Satisfactory
104	17-03-2025	76	36	13	18	1.14	22	0.03	**76**	Satisfactory
105	20-03-2025	74	34	11	16	0.87	21	0.05	**74**	Satisfactory
106	24-03-2025	80	38	11	17	1.12	23	0.05	**80**	Satisfactory
107	27-03-2025	73	36	11	16	1.09	20	0.07	**73**	Satisfactory
108	31-03-2025	79	40	12	17	1.24	23	0.05	**79**	Satisfactory
* No Monitoring										

Station: Premises of Somnath English High School-630										City: Codli
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							AQI	AIR QLTY
	Parameters	PM10	PM2.5	SO2	NO2	*CO	O3	Pb		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	88	25	5	17	NOT MONITORED			**88**	Satisfactory
2	04-04-2024	118	44	4	12				**112**	Moderate
3	08-04-2024	105	35	4	20				**104**	Moderate
4	11-04-2024	95	37	4	17				**95**	Satisfactory
5	15-04-2024	69	14	5	15				**69**	Satisfactory
6	18-04-2024	58	13	2	20				**58**	Satisfactory
7	22-04-2024	97	11	2	17				**97**	Satisfactory
8	25-04-2024	80	17	4	21				**80**	Satisfactory
9	29-04-2024	86	26	8	17				**86**	Satisfactory
10	30-04-2024	47	15	5	16				**47**	Good
MAY										
11	06-05-2024	99	21	5	14	NOT MONITORED			**99**	Satisfactory
12	09-05-2024	74	21	6	19				**74**	Satisfactory
13	13-05-2024	79	27	4	16				**79**	Satisfactory
14	16-05-2024	73	14	5	11				**73**	Satisfactory
15	20-05-2024	63	16	2	13				**63**	Satisfactory
16	21-05-2024	51	12	2	14				**51**	Satisfactory
17	23-05-2024	51	17	2	5				**51**	Satisfactory
18	24-05-2024	46	12	2	5				**46**	Good
19	27-05-2024	55	23	2	5				**55**	Satisfactory
20	30-05-2024	40	9	2	9				**40**	Good

JUNE										
	03-06-2024	38	8	2	5	NOT MONITORED			**38**	Good
22	04-06-2024	38	11	2	9				**38**	Good
23	06-06-2024	25	6	2	5				**25**	Good
24	07-06-2024	30	4	2	5				**30**	Good
25	10-06-2024	32	13	2	9				**32**	Good
26	13-06-2024	24	6	2	5				**24**	Good
27	17-06-2024	36	9	2	5				**36**	Good
28	24-06-2024	37	6	2	5				**37**	Good
29	27-06-2024	33	6	2	5				**33**	Good
JULY										
30	01-07-2024	31	7	2	6	NOT MONITORED			**31**	Good
31	04-07-2024	32	8	2	5				**32**	Good
32	08-07-2024	34	12	2	5				**34**	Good
33	11-07-2024	32	9	2	5				**32**	Good
34	17-07-2024	23	13	7	12	0.16	2	0.004	**23**	Good
35	20-07-2024	22	11	6	10	0.28	2	0.004	**22**	Good
36	24-07-2024	25	12	6	10	0.38	2	0.005	**25**	Good
37	28-07-2024	27	14	6	13	0.53	3	0.004	**27**	Good
38	30-07-2024	30	15	7	13	0.46	4	0.003	**30**	Good
AUGUST										
39	03-08-2024	27	13	6	13	0.25	3	0.020	**27**	Good
40	07-08-2024	30	15	7	14	0.31	4	0.010	**30**	Good
41	10-08-2024	28	15	8	13	0.45	4	0.020	**28**	Good
42	14-08-2024	26	16	7	14	0.51	4	0.020	**26**	Good
43	17-08-2024	28	16	7	20	0.42	5	0.020	**28**	Good
44	21-08-2024	31	17	8	15	0.46	5	0.020	**31**	Good
45	24-08-2024	26	14	7	15	0.39	6	0.010	**26**	Good
46	28-08-2024	27	15	8	16	0.42	6	0.010	**27**	Good
47	31-08-2024	30	13	7	15	0.31	6	0.010	**30**	Good

SEPTEMBER										
48	04-09-2024	32	16	6	16	0.48	7	0.030	**32**	Good
49	06-09-2024	34	18	7	17	0.37	8	0.020	**34**	Good
50	11-09-2024	36	18	8	17	0.42	8	0.030	**36**	Good
51	14-09-2024	37	20	7	18	0.45	9	0.020	**37**	Good
52	18-09-2024	39	21	7	18	0.49	9	0.020	**39**	Good
53	21-09-2024	39	19	8	18	0.41	9	0.010	**39**	Good
54	25-09-2024	33	18	7	17	0.32	8	0.020	**33**	Good
55	28-09-2024	37	18	8	18	0.36	9	0.010	**37**	Good
OCTOBER										
56	01-10-2024	39	19	9	18	0.28	9	0.010	**39**	Good
57	05-10-2024	42	20	10	18	0.35	9	0.020	**42**	Good
58	09-10-2024	42	21	10	18	0.26	10	0.020	**42**	Good
59	12-10-2024	48	24	11	20	0.22	11	0.010	**48**	Good
60	16-10-2024	57	27	11	17	0.37	13	0.020	**57**	Satisfactory
61	19-10-2024	63	31	13	18	0.20	12	0.020	**63**	Satisfactory
62	23-10-2024	53	25	12	18	0.31	13	0.010	**53**	Satisfactory
63	26-10-2024	67	35	11	17	0.44	13	0.020	**67**	Satisfactory
64	30.10.2024	75	39	11	15	0.38	16	0.020	**75**	Satisfactory
NOVEMBER										
65	02-11-2024	64	32	10	16	0.29	16	0.01	**64**	Satisfactory
66	06-11-2024	76	36	11	16	0.42	18	0.11	**76**	Satisfactory
67	09-11-2024	69	35	10	15	0.53	15	0.01	**69**	Satisfactory
68	13-11-2024	79	38	12	17	0.34	17	0.01	**79**	Satisfactory
69	16-11-2024	83	41	11	16	0.45	16	0.03	**83**	Satisfactory
70	20-11-2024	71	37	10	16	0.38	17	0.04	**71**	Satisfactory
71	23-11-2024	67	34	10	16	0.25	17	0.08	**67**	Satisfactory
72	27-11-2024	70	38	10	15	0.31	16	0.12	**70**	Satisfactory
73	30-11-2024	68	36	10	15	0.47	16	0.03	**68**	Satisfactory
DECEMBER										
74	04-12-2024	65	35	11	15	0.42	17	0.01	**65**	Satisfactory
75	07-12-2024	69	36	11	15	0.28	16	0.01	**69**	Satisfactory
76	11-12-2024	64	33	10	12	0.32	16	0.02	**64**	Satisfactory

77	14-12-2024	71	38	11	16	0.55	18	0.03	**71**	Satisfactory
78	18-12-2024	74	36	10	15	0.36	17	0.02	**74**	Satisfactory
79	21-12-2024	66	32	11	15	0.67	17	0.04	**66**	Satisfactory
80	26-12-2024	70	33	10	14	0.81	16	0.03	**70**	Satisfactory
81	28-12-2024	73	35	11	16	0.75	18	0.01	**73**	Satisfactory
JANUARY										
82	01-01-2025	69	35	10	15	0.68	17	0.03	**69**	Satisfactory
83	04-01-2025	63	34	10	15	0.73	17	0.03	**63**	Satisfactory
84	08-01-2025	73	38	12	16	0.92	17	0.02	**73**	Satisfactory
85	11-01-2025	66	33	10	15	0.86	16	0.03	**66**	Satisfactory
86	15-01-2025	71	35	10	14	0.57	18	0.03	**71**	Satisfactory
87	18-01-2025	61	32	10	14	0.81	18	0.04	**61**	Satisfactory
88	22-01-2025	68	35	10	14	0.64	16	0.03	**68**	Satisfactory
89	25-01-2025	75	38	10	14	0.97	17	0.04	**75**	Satisfactory
90	29-01-2025	79	36	9	15	0.73	17	0.05	**79**	Satisfactory
FEBRUARY										
91	01-02-2025	65	34	11	15	0.82	17	0.04	**65**	Satisfactory
92	05-02-2025	70	33	9	14	1.12	18	0.05	**70**	Satisfactory
93	08-02-2025	78	37	10	15	0.95	18	0.06	**78**	Satisfactory
94	12-02-2025	68	35	10	14	1.06	19	0.07	**68**	Satisfactory
95	15-02-2025	62	32	10	14	0.73	17	0.05	**62**	Satisfactory
96	19-02-2025	62	32	10	14	0.98	20	0.06	**62**	Satisfactory
97	22-02-2025	67	34	10	15	1.19	18	0.07	**67**	Satisfactory
98	26-02-2025	72	36	10	15	1.02	19	0.04	**72**	Satisfactory
MARCH										
99	01-03-2025	63	36	10	13	1.09	21	0.05	**63**	Satisfactory
100	05-03-2025	75	37	10	15	0.87	20	0.07	**75**	Satisfactory
101	08-03-2025	71	33	10	15	1.23	20	0.09	**71**	Satisfactory
102	12-03-2025	78	38	10	16	0.95	23	0.08	**78**	Satisfactory
103	15-03-2025	65	32	9	13	1.15	22	0.08	**65**	Satisfactory
104	19-03-2025	69	33	10	14	1.31	25	0.07	**69**	Satisfactory
105	22-03-2025	72	35	10	15	0.82	23	0.05	**72**	Satisfactory

106	26-03-2025	65	32	9	12	0.95	19	0.04	**65**	Satisfactory
107	29-03-2025	75	37	10	14	1.20	21	0.03	**75**	Satisfactory
* No Monitoring										

Station: Rooftop of PWD Office, Near Bus Stand-777									**City: Sanguem**	
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	79	18	6	16	NOT MONITORED			**79**	Satisfactory
2	04-04-2024	84	22	4	15				**84**	Satisfactory
3	08-04-2024	102	27	5	17				**102**	Moderate
4	11-04-2024	61	13	4	24				**61**	Satisfactory
5	15-04-2024	53	10	4	11				**53**	Satisfactory
6	18-04-2024	83	26	5	23				**83**	Satisfactory
7	22-04-2024	59	10	5	18				**59**	Satisfactory
8	25-04-2024	60	11	4	12				**60**	Satisfactory
9	29-04-2024	86	27	5	14				**86**	Satisfactory
10	30-04-2024	81	20	4	14				**81**	Satisfactory
MAY										
11	06-05-2024	72	17	8	16	NOT MONITORED			**72**	Satisfactory
12	09-05-2024	72	22	5	15				**72**	Satisfactory
13	13-05-2024	65	12	6	16				**65**	Satisfactory
14	16-05-2024	40	11	2	11				**40**	Good
15	20-05-2024	51	15	2	5				**51**	Satisfactory
16	21-05-2024	58	18	5	9				**58**	Satisfactory
17	23-05-2024	34	12	2	5				**34**	Good
18	24-05-2024	56	12	4	11				**56**	Satisfactory
19	27-05-2024	72	22	2	9				**72**	Satisfactory
20	30-05-2024	69	21	2	9				**69**	Satisfactory

JUNE										
	03-06-2024	37	9	2	5	NOT MONITORED			**37**	Good
22	04-06-2024	31	7	2	5				**31**	Good
23	06-06-2024	40	10	2	5				**40**	Good
24	07-06-2024	28	4	2	5				**28**	Good
25	10-06-2024	24	11	2	10				**24**	Good
26	13-06-2024	26	7	2	5				**26**	Good
27	17-06-2024	33	4	2	5				**33**	Good
28	24-06-2024	29	4	2	5				**29**	Good
29	27-06-2024	53	9	2	5				**53**	Satisfactory
JULY										
30	01-07-2024	27	3	2	5	NOT MONITORED			**27**	Good
31	04-07-2024	24	11	2	5				**24**	Good
32	08-07-2024	28	7	2	5				**28**	Good
33	11-07-2024	57	13	2	5				**57**	Satisfactory
34	17-07-2024	21	13	5	9	0.17	3	0.006	**22**	Good
35	20-07-2024	21	12	4	9	0.12	2	0.005	**21**	Good
36	24-07-2024	26	13	6	11	0.34	2	0.005	**26**	Good
37	28-07-2024	27	15	6	13	0.32	2	0.006	**27**	Good
38	30-07-2024	32	17	7	13	0.43	3	0.006	**32**	Good
AUGUST										
39	03-08-2024	34	15	7	13	0.32	4	0.020	**34**	Good
40	07-08-2024	31	15	6	13	0.28	5	0.020	**31**	Good
41	10-08-2024	29	15	7	14	0.35	5	0.010	**29**	Good
42	14-08-2024	28	17	7	14	0.29	6	0.020	**28**	Good
43	17-08-2024	25	15	7	15	0.38	6	0.010	**25**	Good
44	21-08-2024	29	16	7	15	0.32	6	0.010	**29**	Good
45	24-08-2024	26	14	6	13	0.27	6	0.010	**26**	Good
46	28-08-2024	28	15	7	14	0.31	6	0.010	**28**	Good
47	31-08-2024	31	16	7	15	0.34	7	0.010	**31**	Good

SEPTEMBER										
48	04-09-2024	33	17	8	15	0.29	7	0.020	**33**	Good
49	06-09-2024	34	17	8	15	0.25	7	0.020	**34**	Good
50	11-09-2024	34	18	8	16	0.33	8	0.020	**34**	Good
51	14-09-2024	36	19	8	16	0.30	8	0.020	**36**	Good
52	18-09-2024	36	19	8	17	0.42	9	0.020	**36**	Good
53	21-09-2024	37	20	9	17	0.49	9	0.010	**37**	Good
54	25-09-2024	33	16	8	16	0.28	8	0.020	**33**	Good
55	28-09-2024	34	18	8	16	0.31	8	0.020	**34**	Good
OCTOBER										
56	01-10-2024	37	19	9	16	0.37	9	0.010	**37**	Good
57	05-10-2024	39	19	9	17	0.42	9	0.020	**39**	Good
58	09-10-2024	40	20	9	17	0.24	9	0.010	**40**	Good
59	12-10-2024	47	23	11	17	0.33	11	0.020	**47**	Good
60	16-10-2024	52	26	10	18	0.19	12	0.020	**52**	Satisfactory
61	19-10-2024	60	29	11	17	0.53	13	0.020	**60**	Satisfactory
62	23-10-2024	54	26	10	16	0.25	14	0.010	**54**	Satisfactory
63	26-10-2024	68	32	10	17	0.31	15	0.010	**68**	Satisfactory
64	30-10-2024	73	35	11	16	0.47	17	0.020	**73**	Satisfactory
NOVEMBER										
65	02-11-2024	78	38	12	16	0.52	15	0.03	**78**	Satisfactory
66	06-11-2024	73	34	11	16	0.77	18	0.02	**73**	Satisfactory
67	09-11-2024	66	33	10	15	0.69	16	0.02	**66**	Satisfactory
68	13-11-2024	78	39	10	15	0.72	17	0.02	**78**	Satisfactory
69	16-11-2024	73	35	11	17	0.84	15	0.01	**73**	Satisfactory
70	20-11-2024	69	33	11	16	0.57	17	0.02	**69**	Satisfactory
71	23-11-2024	74	34	11	18	0.63	16	0.04	**74**	Satisfactory
72	27-11-2024	65	32	10	15	0.71	16	0.02	**65**	Satisfactory
73	30-11-2024	69	35	11	16	0.49	17	0.01	**69**	Satisfactory

DECEMBER										
74	04-12-2024	64	33	10	15	0.60	16	0.01	**64**	Satisfactory
75	07-12-2024	69	33	10	17	0.75	16	0.01	**69**	Satisfactory
76	11-12-2024	66	35	10	16	0.68	17	0.05	**66**	Satisfactory
77	14-12-2024	72	37	10	16	0.51	16	0.02	**72**	Satisfactory
78	18-12-2024	77	37	10	16	0.84	17	0.02	**77**	Satisfactory
79	21-12-2024	71	35	9	16	0.79	16	0.02	**71**	Satisfactory
80	26-12-2024	75	38	9	15	0.63	17	0.04	**75**	Satisfactory
81	28-12-2024	68	36	11	15	0.57	18	0.02	**68**	Satisfactory
JANUARY										
82	01-01-2025	62	35	11	17	0.45	17	0.01	**62**	Satisfactory
83	04-01-2025	68	36	10	16	0.68	17	0.03	**68**	Satisfactory
84	08-01-2025	72	36	10	15	0.53	17	0.02	**72**	Satisfactory
85	11-01-2025	65	34	10	15	0.71	16	0.01	**65**	Satisfactory
86	15-01-2025	69	37	10	15	0.84	17	0.02	**69**	Satisfactory
87	18-01-2025	75	35	10	16	0.92	18	0.03	**75**	Satisfactory
88	22-01-2025	68	33	11	14	0.76	17	0.02	**68**	Satisfactory
89	25-01-2025	80	38	9	14	0.65	18	0.03	**80**	Satisfactory
90	29-01-2025	73	35	9	16	0.58	18	0.06	**73**	Satisfactory
FEBRUARY										
91	01-02-2025	66	33	9	14	0.59	18	0.02	**66**	Satisfactory
92	05-02-2025	61	35	9	14	0.67	16	0.03	**61**	Satisfactory
93	08-02-2025	73	38	10	15	0.86	17	0.02	**73**	Satisfactory
94	12-02-2025	67	35	10	15	0.95	19	0.04	**67**	Satisfactory
95	15-02-2025	70	35	9	15	0.74	18	0.01	**70**	Satisfactory
96	19-02-2025	64	32	9	14	1.03	19	0.02	**64**	Satisfactory
97	22-02-2025	76	36	10	14	0.91	18	0.05	**76**	Satisfactory
98	26-02-2025	69	34	10	14	0.88	19	0.02	**69**	Satisfactory
MARCH										
99	01-03-2025	68	35	9	14	0.59	18	0.03	**68**	Satisfactory
100	05-03-2025	64	33	10	13	0.83	21	0.04	**64**	Satisfactory
101	08-03-2025	72	34	10	15	0.71	20	0.03	**72**	Satisfactory

102	12-03-2025	69	33	8	12	1.04	22	0.04	**69**	Satisfactory
103	15-03-2025	65	31	9	12	0.95	23	0.04	**65**	Satisfactory
104	19-03-2025	75	34	9	12	0.89	21	0.02	**75**	Satisfactory
105	22-03-2025	73	35	9	13	1.18	21	0.04	**73**	Satisfactory
106	26-03-2025	66	32	11	15	0.74	20	0.03	**66**	Satisfactory
107	29-03-2025	70	37	9	14	0.91	22	0.02	**70**	Satisfactory
* No Monitoring										

Station: Residence of D. Rivonkar, Tilamol Junction-778									**City: Tilamol**	
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	102	40	7	19	NOT MONITORED			**101**	Moderate
2	04-04-2024	87	19	4	19				**87**	Satisfactory
3	08-04-2024	78	16	4	15				**78**	Satisfactory
4	11-04-2024	54	9	2	12				**54**	Satisfactory
5	15-04-2024	55	13	5	14				**55**	Satisfactory
6	18-04-2024	60	14	2	15				**60**	Satisfactory
7	22-04-2024	64	16	2	16				**64**	Satisfactory
8	25-04-2024	60	18	4	16				**60**	Satisfactory
9	29-04-2024	79	16	9	14				**79**	Satisfactory
10	30-04-2024	58	18	6	16				**58**	Satisfactory

MAY										
11	06-05-2024	80	18	6	17	NOT MONITORED			**80**	Satisfactory
12	09-05-2024	88	16	2	15				**88**	Satisfactory
13	13-05-2024	65	16	6	16				**65**	Satisfactory
14	16-05-2024	53	15	2	11				**53**	Satisfactory
15	20-05-2024	53	11	2	13				**53**	Satisfactory
16	21-05-2024	79	21	5	13				**79**	Satisfactory
17	23-05-2024	37	9	2	5				**37**	Good
18	24-05-2024	64	18	4	12				**64**	Satisfactory
19	27-05-2024	61	18	6	5				**61**	Satisfactory
20	30-05-2024	72	18	2	5				**72**	Satisfactory
JUNE										
	03-06-2024	45	13	2	9	NOT MONITORED			**45**	Good
22	04-06-2024	42	8	2	5				**42**	Good
23	06-06-2024	26	7	2	5				**26**	Good
24	07-06-2024	33	8	5	10				**33**	Good
25	10-06-2024	31	10	4	9				**31**	Good
26	13-06-2024	29	6	2	5				**29**	Good
27	17-06-2024	36	9	2	5				**36**	Good
28	24-06-2024	28	4	2	5				**28**	Good
29	27-06-2024	21	5	2	5				**21**	Good
JULY										
30	01-07-2024	21	5	2	5	NOT MONITORED			**21**	Good
31	04-07-2024	24	6	2	5				**24**	Good
32	08-07-2024	33	13	2	5				**33**	Good
33	11-07-2024	47	9	2	5				**47**	Good
34	17-07-2024	36	16	8	14	0.56	2	0.003	**36**	Good
35	20-07-2024	34	15	8	13	0.71	2	0.007	**36**	Good
36	24-07-2024	38	17	8	14	0.68	2	0.004	**38**	Good
37	28-07-2024	40	21	7	14	0.46	4	0.006	**40**	Good
38	30-07-2024	34	18	8	13	0.52	3	0.006	**34**	Good

AUGUST										
39	03-08-2024	37	20	9	17	0.71	4	0.010	**37**	Good
40	07-08-2024	40	21	9	19	0.75	5	0.010	**40**	Good
41	10-08-2024	41	21	9	16	0.72	7	0.020	**41**	Good
42	14-08-2024	39	20	8	5	0.83	7	0.010	**42**	Good
43	17-08-2024	42	23	8	15	0.76	8	0.010	**42**	Good
44	21-08-2024	43	23	9	15	0.83	8	0.020	**43**	Good
45	24-08-2024	41	21	9	10	0.72	7	0.010	**41**	Good
46	28-08-2024	45	23	10	14	0.91	8	0.020	**46**	Good
47	31-08-2024	39	21	8	13	0.84	7	0.010	**42**	Good
SEPTEMBER										
48	04-09-2024	43	24	9	14	0.95	8	0.020	**48**	Good
49	06-09-2024	44	23	10	23	0.92	8	0.020	**46**	Good
50	11-09-2024	46	24	11	15	0.86	8	0.020	**46**	Good
51	14-09-2024	48	25	11	13	1.01	9	0.020	**51**	Satisfactory
52	18-09-2024	50	25	11	14	1.13	9	0.010	**57**	Satisfactory
53	21-09-2024	52	26	12	17	1.17	10	0.010	**59**	Satisfactory
54	25-09-2024	45	22	10	13	0.94	9	0.020	**47**	Good
55	28-09-2024	48	23	11	14	0.97	10	0.010	**49**	Good
OCTOBER										
56	01-10-2024	49	25	11	19	1.03	10	0.010	**52**	Satisfactory
57	05-10-2024	54	26	12	19	0.97	11	0.020	**54**	Satisfactory
58	09-10-2024	55	26	12	19	0.92	11	0.010	**55**	Satisfactory
59	12-10-2024	63	29	13	20	0.68	11	0.020	**63**	Satisfactory
60	16-10-2024	74	37	14	22	0.89	13	0.020	**74**	Satisfactory
61	19-10-2024	83	40	15	22	1.14	15	0.020	**83**	Satisfactory
62	23-10-2024	87	43	16	24	1.23	17	0.010	**87**	Satisfactory
63	26-10-2024	93	45	15	21	0.91	17	0.020	**93**	Satisfactory
64	30-10-2024	80	41	14	21	0.64	18	0.020	**80**	Satisfactory

NOVEMBER										
65	02-11-2024	74	25	13	19	0.83	15	0.01	**74**	Satisfactory
66	06-11-2024	88	26	14	21	0.65	17	0.04	**88**	Satisfactory
67	09-11-2024	76	26	14	19	0.51	16	0.03	**76**	Satisfactory
68	13-11-2024	104	29	14	21	0.72	16	0.03	**103**	Moderate
69	16-11-2024	96	37	13	22	0.79	15	0.04	**96**	Satisfactory
70	20-11-2024	83	40	12	19	0.64	16	0.01	**83**	Satisfactory
71	23-11-2024	75	43	12	18	0.58	17	0.05	**75**	Satisfactory
72	27-11-2024	79	45	12	16	0.71	18	0.02	**79**	Satisfactory
73	30-11-2024	84	41	11	17	0.60	16	0.03	**84**	Satisfactory
DECEMBER										
74	04-12-2024	81	37	13	18	0.89	16	0.07	**81**	Satisfactory
75	07-12-2024	74	36	14	18	0.73	17	0.02	**74**	Satisfactory
76	11-12-2024	80	40	13	19	0.56	18	0.02	**80**	Satisfactory
77	14-12-2024	84	39	13	16	0.95	16	0.11	**84**	Satisfactory
78	18-12-2024	80	37	13	17	0.68	18	0.03	**80**	Satisfactory
79	21-12-2024	77	35	14	18	0.82	17	0.04	**77**	Satisfactory
80	26-12-2024	83	42	12	17	0.77	19	0.03	**83**	Satisfactory
81	28-12-2024	71	34	12	18	0.80	17	0.02	**71**	Satisfactory
JANUARY										
82	01-01-2025	77	37	12	17	0.69	17	0	**77**	Satisfactory
83	04-01-2025	84	42	13	18	0.91	17	0	**84**	Satisfactory
84	08-01-2025	89	45	13	19	1.04	18	0	**89**	Satisfactory
85	11-01-2025	76	38	12	17	0.86	17	0	**76**	Satisfactory
86	15-01-2025	80	37	13	18	0.72	17	0	**80**	Satisfactory
87	18-01-2025	87	43	13	19	1.12	18	0	**87**	Satisfactory
88	22-01-2025	70	35	11	17	0.83	16	0	**70**	Satisfactory
89	25-01-2025	74	39	13	18	1.19	19	0	**74**	Satisfactory
90	29-01-2025	83	41	13	18	1.26	19	0	**83**	Satisfactory
FEBRUARY										
91	01-02-2025	84	44	13	18	1.31	20	0	**84**	Satisfactory
92	05-02-2025	73	36	13	18	0.84	20	0	**73**	Satisfactory

93	08-02-2025	79	39	12	17	1.14	18	0	**79**	Satisfactory
94	12-02-2025	86	46	11	18	0.92	19	0	**86**	Satisfactory
95	15-02-2025	80	41	12	18	0.75	19	0	**80**	Satisfactory
96	19-02-2025	75	38	12	19	0.87	20	0	**75**	Satisfactory
97	22-02-2025	82	38	12	17	1.02	20	0	**82**	Satisfactory
98	26-02-2025	76	36	13	19	1.23	22	0	**76**	Satisfactory
MARCH										
99	01-03-2025	89	42	13	19	0.98	24	0.08	**89**	Satisfactory
100	05-03-2025	82	40	13	18	1.19	21	0.07	**82**	Satisfactory
101	08-03-2025	76	36	11	17	1.31	25	0.05	**76**	Satisfactory
102	12-03-2025	71	38	11	17	1.24	23	0.08	**71**	Satisfactory
103	15-03-2025	78	36	13	17	0.88	20	0.07	**78**	Satisfactory
104	19-03-2025	86	44	12	16	1.35	25	0.07	**86**	Satisfactory
105	22-03-2025	81	43	11	17	1.10	22	0.04	**81**	Satisfactory
106	26-03-2025	74	36	10	16	1.22	23	0.06	**74**	Satisfactory
107	29-03-2025	79	39	12	17	0.93	22	0.04	**79**	Satisfactory
* No Monitoring										

Station: Rooftop of Electricity panel room at GSUDA market		**City: Curchorem**								
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
OCTOBER										
1	23-10-2024	83	40	13	17	0.37	16	0.02	**83**	Satisfactory
2	26-10-2024	74	36	13	19	0.43	15	0.01	**74**	Satisfactory
3	30-10-2024	88	44	16	22	1.24	17	0.02	**88**	Satisfactory
NOVEMBER										
4	02-11-2024	95	47	15	20	0.82	18	0.04	**95**	Satisfactory
5	06-11-2024	70	38	13	17	0.65	19	<0.01	**70**	Satisfactory
6	09-11-2024	81	44	14	16	0.71	18	0.02	**81**	Satisfactory
7	13-11-2024	94	45	12	18	0.58	17	0.01	**94**	Satisfactory
8	16-11-2024	98	48	13	20	1.04	15	0.04	**98**	Satisfactory

9	20-11-2024	79	38	12	16	0.79	16	0.03	**79**	Satisfactory
10	23-11-2024	74	35	12	18	0.83	16	0.02	**74**	Satisfactory
11	27-11-2024	84	41	13	18	0.94	15	0.02	**84**	Satisfactory
12	30-11-2024	72	37	12	16	0.66	16	0.03	**72**	Satisfactory
DECEMBER										
13	04-12-2024	77	37	13	17	0.58	17	0.05	**77**	Satisfactory
14	07-12-2024	68	34	11	17	0.47	16	0.04	**68**	Satisfactory
15	11-12-2024	74	34	12	18	0.35	18	0.02	**74**	Satisfactory
16	14-12-2024	82	39	13	16	0.49	17	0.05	**82**	Satisfactory
17	18-12-2024	86	43	13	16	0.72	18	0.02	**86**	Satisfactory
18	21-12-2024	80	40	12	17	0.63	17	0.01	**80**	Satisfactory
19	26-12-2024	72	36	13	17	0.89	19	0.02	**72**	Satisfactory
20	28-12-2024	77	38	12	16	0.52	18	0.02	**77**	Satisfactory
JANUARY										
21	01-01-2025	74	37	13	17	0.61	17	0.06	**74**	Satisfactory
22	04-01-2025	78	41	12	17	1.04	19	0.07	**78**	Satisfactory
23	08-01-2025	83	38	13	18	1.12	17	0.10	**83**	Satisfactory
24	11-01-2025	72	36	13	18	1.07	18	0.08	**72**	Satisfactory
25	15-01-2025	68	33	14	19	1.31	18	0.04	**68**	Satisfactory
26	18-01-2025	77	37	13	18	1.24	19	0.05	**77**	Satisfactory
27	22-01-2025	65	33	12	18	0.89	18	0.07	**65**	Satisfactory
28	25-01-2025	75	37	14	18	0.97	19	0.09	**75**	Satisfactory
29	29-01-2025	69	34	13	17	1.12	19	0.07	**69**	Satisfactory
FEBRUARY										
30	01-02-2025	85	44	13	19	1.15	20	0.07	**85**	Satisfactory
31	05-02-2025	74	38	13	17	1.03	21	0.10	**74**	Satisfactory
32	08-02-2025	78	37	14	18	0.94	18	0.13	**78**	Satisfactory
33	12-02-2025	84	44	13	18	1.26	19	0.08	**84**	Satisfactory
34	15-02-2025	73	31	13	18	1.17	20	0.12	**73**	Satisfactory
35	19-02-2025	80	38	13	18	1.32	21	0.10	**80**	Satisfactory
36	22-02-2025	75	35	12	17	0.88	19	0.12	**75**	Satisfactory
37	26-02-2025	71	38	11	16	1.04	20	0.10	**71**	Satisfactory

MARCH										
38	01-03-2025	78	40	13	18	1.12	22	0.10	**78**	Satisfactory
39	05-03-2025	74	37	12	16	1.29	24	0.08	**74**	Satisfactory
40	08-03-2025	71	33	12	18	1.05	21	0.12	**71**	Satisfactory
41	12-03-2025	80	39	13	18	1.31	25	0.14	**80**	Satisfactory
42	15-03-2025	85	41	13	17	1.25	23	0.08	**85**	Satisfactory
43	19-03-2025	74	35	13	17	1.17	25	0.07	**74**	Satisfactory
44	22-03-2025	83	39	13	18	1.43	23	0.11	**83**	Satisfactory
45	26-03-2025	76	34	12	17	1.04	24	0.13	**76**	Satisfactory
46	29-03-2025	69	37	12	18	1.35	21	0.08	**69**	Satisfactory
* No Monitoring										

Station: Rooftop of Power Station, Cuncolim Ind Estate-781										**City: Cuncolim**	
		Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)									
Sr. No	**Parameters**	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**As**	**Pb**	**AQI**	**AIR QLTY**
	Date	24-hr avg	24-hr avg	4-hr avg	4-hr avg	1-hr avg	1-hr avg	24-hr avg	4-hr avg		
APRIL											
1	01-04-2024	103	32	6	18	NOT MONITORED				**102**	Moderate
2	04-04-2024	99	37	2	15					**99**	Satisfactory
3	08-04-2024	87	27	5	19					**87**	Satisfactory
4	11-04-2024	97	22	5	13					**97**	Satisfactory
5	15-04-2024	72	22	6	17					**72**	Satisfactory
6	18-04-2024	118	30	6	18					**112**	Moderate
7	22-04-2024	88	22	6	18					**88**	Satisfactory
8	25-04-2024	90	22	5	20					**90**	Satisfactory
9	29-04-2024	97	28	6	20					**97**	Satisfactory
10	30-04-2024	101	26	4	28					**101**	Moderate

MAY											
11	06-05-2024	100	25	6	14	NOT MONITORED				**100**	Satisfactory
12	09-05-2024	85	23	4	12					**85**	Satisfactory
13	13-05-2024	90	27	5	17					**90**	Satisfactory
14	16-05-2024	57	14	4	11					**57**	Satisfactory
15	20-05-2024	83	21	4	12					**83**	Satisfactory
16	21-05-2024	82	25	5	14					**82**	Satisfactory
17	23-05-2024	62	19	2	5					**62**	Satisfactory
18	24-05-2024	97	30	4	17					**97**	Satisfactory
19	27-05-2024	111	37	2	9					**107**	Moderate
20	30-05-2024	128	31	2	5					**119**	Moderate
JUNE											
21	03-06-2024	79	26	2	20	NOT MONITORED				**79**	Satisfactory
22	04-06-2024	58	18	2	5					**58**	Satisfactory
23	06-06-2024	67	20	2	15					**67**	Satisfactory
24	07-06-2024	49	16	2	11					**49**	Good
25	10-06-2024	57	19	2	5					**57**	Satisfactory
26	13-06-2024	49	12	2	10					**49**	Good
27	17-06-2024	48	13	2	5					**48**	Good
28	24-06-2024	74	20	2	5					**74**	Satisfactory
29	27-06-2024	82	12	2	5					**82**	Satisfactory
JULY											
30	01-07-2024	228	27	2	12	NOT MONITORED				**185**	Moderate
31	04-07-2024	215	24	1	15					**177**	Moderate
32	08-07-2024	133	22	2	16					**122**	Moderate
33	11-07-2024	122	23	2	12					**114**	Moderate
34	17-07-2024	46	21	9	17	0.49	2	*	0.0060	**46**	Good
35	20-07-2024	43	20	8	16	0.18	2	*	0.005	**43**	Good
36	24-07-2024	48	23	8	15	0.71	2	*	0.006	**48**	Good
37	28-07-2024	53	27	9	17	0.88	4	*	0.007	**53**	Satisfactory
38	30-07-2024	51	26	9	17	0.91	4	*	0.003	**51**	Satisfactory

AUGUST											
39	03-08-2024	43	23	8	15	0.84	5	*	0.010	**43**	Good
40	07-08-2024	40	22	9	14	0.92	6	*	0.010	**46**	Good
41	10-08-2024	45	23	9	16	0.96	7	*	0.010	**48**	Good
42	14-08-2024	43	21	10	19	0.91	9	*	0.010	**46**	Good
43	17-08-2024	40	22	8	15	0.88	9	*	0.010	**44**	Good
44	21-08-2024	37	20	10	16	0.95	9	*	0.010	**48**	Good
45	24-08-2024	42	22	9	17	0.93	10	*	0.010	**47**	Good
46	28-08-2024	62	30	12	20	1.26	14	*	0.010	**63**	Satisfactory
47	31-08-2024	47	23	11	19	1.02	9	*	0.010	**51**	Satisfactory
SEPTEMBER											
48	04-09-2024	53	25	9	19	0.84	10	*	0.010	**53**	Satisfactory
49	06-09-2024	54	26	10	19	0.93	10	*	0.010	**54**	Satisfactory
50	11-09-2024	57	29	12	20	1.01	10	*	0.010	**57**	Satisfactory
51	14-09-2024	60	30	12	20	1.12	11	*	0.010	**60**	Satisfactory
52	18-09-2024	64	31	13	21	1.19	11	*	0.020	**64**	Satisfactory
53	21-09-2024	68	31	13	21	1.24	12	*	0.010	**68**	Satisfactory
54	25-09-2024	58	27	12	19	0.97	11	2	0.020	**58**	Satisfactory
55	28-09-2024	61	30	12	21	1.04	11	2	0.020	**61**	Satisfactory
OCTOBER											
56	01-10-2024	65	31	12	21	1.13	12	2	0.010	**65**	Satisfactory
57	05-10-2024	67	33	13	21	1.15	12	1	0.010	**67**	Satisfactory
58	09-10-2024	69	34	13	22	1.09	13	2	0.020	**69**	Satisfactory
59	12-10-2024	75	37	14	22	0.94	13	2	0.010	**75**	Satisfactory
60	16-10-2024	81	40	15	24	1.07	16	2	0.010	**81**	Satisfactory
61	19-10-2024	73	34	14	23	0.86	17	2	0.010	**73**	Satisfactory
62	23-10-2024	78	37	12	24	0.74	15	2	0.010	**78**	Satisfactory
63	26-10-2024	87	42	14	21	0.63	17	2	0.010	**87**	Satisfactory
64	30-10-2024	81	38	14	25	0.41	18	2	0.010	**81**	Satisfactory
NOVEMBER											
65	02-11-2024	88	44	13	21	0.55	16	<0.004	0.02	**88**	Satisfactory
66	06-11-2024	96	48	15	22	0.72	19	0.09	0.03	**96**	Satisfactory
67	09-11-2024	92	44	16	22	0.81	18	0.12	0.03	**92**	Satisfactory
68	13-11-2024	89	43	13	20	0.67	16	0.02	0.04	**89**	Satisfactory

69	16-11-2024	83	40	14	19	0.86	19	0.02	0.03	**83**	Satisfactory
70	20-11-2024	77	37	13	20	0.74	18	1.27	0.05	**77**	Satisfactory
71	23-11-2024	74	36	13	17	0.53	17	0.59	0.03	**74**	Satisfactory
72	28-11-2024	81	37	13	19	0.89	17	0.78	0.07	**81**	Satisfactory
73	30-11-2024	76	37	13	18	0.64	18	1.78	0.09	**76**	Satisfactory
DECEMBER											
74	04-12-2024	76	32	14	18	0.71	19	0.40	0.02	**76**	Satisfactory
75	07-12-2024	87	42	13	18	0.82	17	1.33	0.28	**87**	Satisfactory
76	11-12-2024	79	39	12	19	0.63	18	0.55	0.07	**79**	Satisfactory
77	14-12-2024	83	41	13	18	0.69	18	1.29	0.04	**83**	Satisfactory
78	18.12-2024	73	36	12	16	0.75	19	0.69	0.03	**73**	Satisfactory
79	21-12-2024	77	40	13	19	0.83	17	0.57	0.04	**77**	Satisfactory
80	26-12-2024	80	37	13	19	0.97	19	3.24	0.47	**80**	Satisfactory
81	28-12-2024	74	36	12	17	0.70	18	0.90	0.75	**74**	Satisfactory
JANUARY											
82	01-01-2025	79	37	13	18	1.04	18	0	0.03	**79**	Satisfactory
83	04-01-2025	74	36	12	18	0.95	17	1	0.01	**74**	Satisfactory
84	08-01-2025	69	34	12	19	1.15	19	0	0.05	**69**	Satisfactory
85	11-01-2025	65	32	13	18	0.98	18	1	0.04	**65**	Satisfactory
86	15-01-2025	75	38	13	18	0.73	18	1	0.18	**75**	Satisfactory
87	18-01-2025	79	40	13	18	1.26	18	1	0.06	**79**	Satisfactory
88	22-01-2025	69	35	11	18	0.85	18	2	0.08	**69**	Satisfactory
89	25-01-2025	77	38	12	17	0.72	19	1	0.12	**77**	Satisfactory
90	29-01-2025	67	33	13	19	1.06	19	1	0.09	**67**	Satisfactory
FEBRUARY											
91	01-02-2025	76	39	12	19	1.32	20	0.4	0.15	**76**	Satisfactory
92	05-02-2025	69	36	11	17	0.86	20	0.4	0.12	**69**	Satisfactory
93	08-02-2025	82	44	13	17	1.22	18	0.4	0.05	**82**	Satisfactory
94	12-02-2025	86	48	12	17	1.17	19	0.7	0.15	**86**	Satisfactory
95	15-02-2025	78	37	12	18	0.94	19	0.6	0.17	**78**	Satisfactory
96	19-02-2025	72	35	13	17	1.05	21	0.5	0.14	**72**	Satisfactory
97	22-02-2025	81	37	11	16	1.28	24	0.5	0.15	**81**	Satisfactory
98	26-02-2025	76	32	13	18	1.21	22	0.4	0.13	**76**	Satisfactory

MARCH											
99	01-03-2025	78	37	12	18	1.25	23	0.5	0.2	**78**	Satisfactory
100	05-03-2025	73	34	13	16	1.07	22	0.4	0.1	**73**	Satisfactory
101	08-03-2025	81	40	12	17	1.19	19	0.3	0.2	**81**	Satisfactory
102	12-03-2025	70	34	12	17	1.32	24	0.3	0.1	**70**	Satisfactory
103	15-03-2025	76	38	13	18	1.14	22	0.4	0.1	**76**	Satisfactory
104	19-03-2025	83	41	12	17	1.31	25	0.5	0.2	**83**	Satisfactory
105	22-03-2025	75	31	12	17	1.22	25	0.4	0.1	**75**	Satisfactory
106	26-03-2025	66	35	14	18	1.17	23	0.3	0.1	**66**	Satisfactory
107	29-03-2025	80	38	13	16	1.29	25	0.4	0.1	**80**	Satisfactory
* No Monitoring											

Station: Near IDC Office-780										**City: Kundaim**
		Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)							**AQI**	**AIR QLTY**
	Parameters	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**	**Pb**		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	58	18	5	13	NOT MONITORED			**58**	Satisfactory
2	04-04-2024	54	15	4	9				**54**	Satisfactory
3	08-04-2024	47	13	5	16				**47**	Good
4	11-04-2024	65	17	4	15				**65**	Satisfactory
5	15-04-2024	80	18	5	14				**80**	Satisfactory
6	18-04-2024	87	30	6	15				**87**	Satisfactory
7	22-04-2024	110	27	5	16				**107**	Moderate
8	25-04-2024	96	27	5	11				**96**	Satisfactory
9	29-04-2024	85	23	7	14				**85**	Satisfactory
10	30-04-2024	69	18	7	13				**69**	Satisfactory

MAY										
11	06-05-2024	106	30	6	13	NOT MONITORED			**104**	Moderate
12	09-05-2024	91	24	5	14				**91**	Satisfactory
13	13-05-2024	104	37	4	18				**103**	Moderate
14	16-05-2024	83	17	2	9				**83**	Satisfactory
15	20-05-2024	72	23	2	15				**72**	Satisfactory
16	21-05-2024	66	18	3	11				**66**	Satisfactory
17	23-05-2024	38	11	2	5				**38**	Good
18	24-05-2024	88	20	4	14				**88**	Satisfactory
19	27-05-2024	48	12	2	10				**48**	Good
20	30-05-2024	51	11	2	5				**51**	Satisfactory
JUNE										
21	03-06-2024	76	22	2	16	NOT MONITORED			**76**	Satisfactory
22	04-06-2024	46	13	2	5				**46**	Good
23	06-06-2024	25	4	2	5				**25**	Good
24	07-06-2024	30	6	2	5				**30**	Good
25	10-06-2024	32	8	2	5				**32**	Good
26	13-06-2024	27	8	2	5				**27**	Good
27	17-06-2024	37	4	2	5				**37**	Good
28	24-06-2024	29	6	2	5				**29**	Good
29	27-06-2024	30	5	2	5				**30**	Good
JULY										
30	01-07-2024	35	7	2	2	Not Monitored			**35**	Good
31	04-07-2024	28	12	1	2				**28**	Good
32	08-07-2024	35	12	3	4				**35**	Good
33	11-07-2024	30	9	3	5				**30**	Good
34	15-07-2024	39	13	8	11	0.12	3	0.003	**39**	Good
35	18-07-2024	36	16	7	12	0.35	3	0.005	**36**	Good
36	23-07-2024	27	14	7	11	0.59	4	0.005	**30**	Good
37	25-07-2024	25	13	7	12	0.56	3	0.004	**28**	Good
38	29-07-2024	25	14	6	11	0.43	3	0.002	**25**	Good

AUGUST										
39	01-08-2024	27	13	6	11	0.65	4	0.010	**33**	Good
40	05-08-2024	27	13	7	12	0.41	5	0.020	**27**	Good
41	08-08-2024	32	17	8	14	0.72	6	0.010	**36**	Good
42	12-08-2024	46	26	11	19	0.93	8	0.010	**47**	Good
43	16-08-2024	44	24	10	19	0.82	9	0.010	**44**	Good
44	19-08-2024	44	21	10	17	0.77	9	0.010	**44**	Good
45	22-08-2024	34	16	9	17	0.62	9	0.010	**34**	Good
46	26-08-2024	38	20	9	18	0.74	10	0.010	**38**	Good
47	29-08-2024	42	24	10	19	0.81	10	0.010	**42**	Good
SEPTEMBER										
48	02-09-2024	45	23	10	19	0.96	10	0.020	**48**	Good
49	05-09-2024	44	21	11	19	0.88	10	0.020	**44**	Good
50	10-09-2024	45	24	11	20	0.94	10	0.010	**47**	Good
51	12-09-2024	47	24	12	20	1.06	11	0.020	**53**	Satisfactory
52	16-09-2024	48	25	12	21	1.13	11	0.020	**57**	Satisfactory
53	19-09-2024	52	26	13	21	1.19	11	0.020	**60**	Satisfactory
54	23-09-2024	44	24	11	19	1.11	10	0.020	**56**	Satisfactory
55	26-09-2024	47	24	11	19	1.02	11	0.020	**51**	Satisfactory
56	30-09-2024	49	25	11	20	1.07	12	0.010	**54**	Satisfactory
OCTOBER										
57	03-10-2024	52	26	12	20	0.97	12	0.010	**52**	Satisfactory
58	07-10-2024	56	26	12	20	1.12	12	0.020	**56**	Satisfactory
59	10-10-2024	56	28	12	20	0.92	13	0.020	**56**	Satisfactory
60	14-10-2024	68	33	13	22	0.83	13	0.020	**68**	Satisfactory
61	17-10-2024	73	35	12	22	1.01	11	0.020	**73**	Satisfactory
62	21-10-2024	85	41	14	23	0.72	16	0.020	**85**	Satisfactory
63	24-10-2024	76	38	11	21	0.81	17	0.020	**76**	Satisfactory
64	28-10-2024	81	41	13	23	0.65	15	0.010	**81**	Satisfactory
65	31-10-2024	86	45	14	24	0.93	18	0.020	**86**	Satisfactory

NOVEMBER										
66	04-11-2024	98	46	13	21	0.72	19	0.17	**98**	Satisfactory
67	07-11-2024	96	46	11	18	0.96	20	0.05	**96**	Satisfactory
68	11-11-2024	106	48	12	19	0.88	17	0.11	**104**	Moderate
69	14-11-2024	89	42	10	17	0.65	16	0.35	**89**	Satisfactory
70	18-11-2024	113	54	13	16	0.79	19	0.37	**108**	Moderate
71	21-11-2024	93	48	11	17	1.16	17	0.26	**93**	Satisfactory
72	25-11-2024	111	50	13	17	0.84	16	0.58	**107**	Moderate
73	28-11-2024	115	53	13	18	0.73	18	0.25	**110**	Moderate
DECEMBER										
74	02-12-2024	108	53	13	17	0.64	17	0.39	**106**	Moderate
75	05-12-2024	124	50	12	18	0.71	19	0.20	**116**	Moderate
76	09-12-2024	118	48	12	17	0.89	18	0.43	**112**	Moderate
77	12-12-2024	103	47	12	18	0.95	18	0.25	**102**	Moderate
78	16-12-2024	95	44	12	17	0.83	19	0.33	**95**	Satisfactory
79	20-12-2024	90	44	12	17	0.57	18	0.17	**90**	Satisfactory
80	23-12-2024	89	45	13	19	0.77	17	0.24	**89**	Satisfactory
81	26-12-2024	92	48	12	18	0.92	19	0.21	**92**	Satisfactory
82	30-12-2024	106	46	12	16	1.08	18	0.03	**104**	Moderate
JANUARY										
83	02-01-2025	93	46	12	17	0.91	17	0.39	**93**	Satisfactory
84	06-01-2025	97	48	12	17	1.17	18	0.23	**97**	Satisfactory
85	09-01-2025	122	50	13	18	1.25	19	0.17	**115**	Moderate
86	13-01-2025	96	48	12	17	1.14	18	0.26	**96**	Satisfactory
87	16-01-2025	81	41	11	16	1.32	17	0.37	**81**	Satisfactory
88	20-01-2025	94	45	12	18	1.29	18	0.24	**94**	Satisfactory
89	23-01-2025	80	39	12	16	1.04	18	0.42	**80**	Satisfactory
90	27-01-2025	89	43	12	18	0.89	19	0.36	**89**	Satisfactory
91	30-01-2025	86	41	12	18	0.91	18	0.33	**86**	Satisfactory
FEBRUARY										
92	03-02-2025	91	43	13	18	1.27	20	0.5	**91**	Satisfactory
93	06-02-2025	85	43	13	18	1.23	20	0.4	**85**	Satisfactory

94	10-02-2025	92	43	13	18	1.16	18	0.5	**92**	Satisfactory
95	13-02-2025	85	43	12	18	1.07	19	0.4	**85**	Satisfactory
96	17-02-2025	77	43	14	19	1.15	20	0.3	**77**	Satisfactory
97	20-02-2025	86	43	12	17	0.98	22	0.3	**86**	Satisfactory
98	24-02-2025	81	43	13	18	1.31	22	0.4	**81**	Satisfactory
99	27-02-2025	75	43	12	18	1.12	23	0.3	**75**	Satisfactory
MARCH										
100	03-03-2025	82	39	12	17	1.35	22	0.4	**82**	Satisfactory
101	06-03-2025	77	40	12	17	1.21	19	0.3	**77**	Satisfactory
102	10-03-2025	80	34	12	17	1.08	21	0.4	**80**	Satisfactory
103	13-03-2025	72	38	12	17	1.14	24	0.3	**72**	Satisfactory
104	17-03-2025	68	35	12	16	0.93	22	0.2	**68**	Satisfactory
105	20-03-2025	85	42	12	16	1.24	24	0.4	**85**	Satisfactory
106	24-03-2025	75	38	11	15	1.30	22	0.3	**75**	Satisfactory
107	27-03-2025	82	41	12	17	1.17	23	0.4	**82**	Satisfactory
108	31-03-2025	77	36	11	17	1.05	20	0.3	**77**	Satisfactory
* No Monitoring										

Station: Tuem Industrial Estate Near ESIC Hospital-779									City: Tuem	
		Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)							AQI	AIR QLTY
	Parameters	PM10	PM2.5	SO2	NO2	*CO	O3	Pb		
Sr. No	Date	24-hr avg	24-hr avg	24-hr avg	24-hr avg	1-hr avg	1-hr avg	24-hr avg		
APRIL										
1	01-04-2024	53	16	8	17	NOT MONITORED			**53**	Satisfactory
2	04-04-2024	58	21	6	14				**58**	Satisfactory
3	08-04-2024	56	19	4	20				**56**	Satisfactory
4	12-04-2024	60	12	4	18				**60**	Satisfactory
5	15-04-2024	109	20	5	16				**106**	Moderate
6	18-04-2024	83	27	5	13				**83**	Satisfactory
7	22-04-2024	105	26	5	15				**103**	Moderate
8	25-04-2024	101	28	5	10				**101**	Moderate
9	29-04-2024	65	15	7	17				**65**	Satisfactory
10	30-04-2024	95	26	5	17				**95**	Satisfactory
MAY										
	06-05-2024	99	35	6	18	NOT MONITORED			**99**	Satisfactory
12	09-05-2024	80	23	7	15				**80**	Satisfactory
13	13-05-2024	86	23	4	17				**86**	Satisfactory
14	16-05-2024	45	10	2	5				**45**	Good
15	20-05-2024	49	11	2	10				**49**	Good
16	21-05-2024	82	25	4	14				**82**	Satisfactory
17	23-05-2024	60	14	2	5				**60**	Satisfactory
18	24-05-2024	75	19	3	15				**75**	Satisfactory
19	27-05-2024	73	24	2	11				**73**	Satisfactory
20	30-05-2024	59	13	2	5				**59**	Satisfactory

JUNE										
	03-06-2024	77	23	2	11	NOT MONITORED			**77**	Satisfactory
22	04-06-2024	53	16	4	9				**53**	Satisfactory
23	06-06-2024	34	10	2	5				**34**	Good
24	07-06-2024	40	9	2	10				**40**	Good
25	10-06-2024	56	15	2	5				**56**	Satisfactory
26	13-06-2024	32	11	2	5				**32**	Good
27	18-06-2024	41	11	2	5				**41**	Good
28	24-06-2024	41	11	2	5				**41**	Good
29	27-06-2024	32	8	2	5				**32**	Good
JULY										
30	01-07-2024	37	10	1	3	NOT MONITORED			**37**	Good
31	04-07-2024	25	7	1	3				**25**	Good
32	08-07-2024	24	10	3	2				**24**	Good
33	11-07-2024	27	11	2	6				**27**	Good
34	17-07-2024	29	9	4	9	0.81	3	0.005	**41**	Good
35	19-07-2024	32	12	6	12	0.69	3	0.004	**35**	Good
36	23-07-2024	33	17	7	14	0.08	13	0.004	**33**	Good
37	26-07-2024	35	20	8	14	0.71	4	0.004	**36**	Good
38	30-07-2024	32	17	8	14	0.53	4	0.004	**32**	Good
AUGUST										
39	02-08-2024	38	19	8	14	0.79	4	0.010	**40**	Good
40	06-08-2024	40	22	9	14	0.75	5	0.020	**40**	Good
41	09-08-2024	40	20	8	16	0.63	7	0.010	**40**	Good
42	13-08-2024	44	25	9	18	0.79	9	0.010	**44**	Good
43	16-08-2024	41	22	9	17	0.83	8	0.010	**42**	Good
44	20-08-2024	39	23	8	17	0.88	9	0.020	**44**	Good
45	23-08-2024	36	18	9	17	0.73	9	0.010	**37**	Good
46	27-08-2024	45	21	9	18	0.79	10	0.010	**45**	Good
47	30.08-2024	41	21	10	18	0.77	9	0.010	**41**	Good

SEPTEMBER										
48	03-09-2024	43	23	10	18	0.85	9	0.020	**43**	Good
49	06-09-2024	46	23	10	18	0.84	10	0.020	**46**	Good
50	10-09-2024	46	25	10	19	0.92	11	0.020	**46**	Good
51	13-09-2024	49	25	11	20	1.09	11	0.020	**55**	Satisfactory
52	17-09-2024	50	26	11	21	1.02	12	0.020	**51**	Satisfactory
53	20-09-2024	53	27	12	21	1.14	12	0.020	**57**	Satisfactory
54	24-09-2024	47	25	9	19	0.96	11	0.010	**48**	Good
55	27-09-2024	49	23	10	19	1.03	11	0.020	**52**	Satisfactory
OCTOBER										
56	01-10-2024	51	26	11	19	1.06	12	0.010	**53**	Satisfactory
57	04-10-2024	55	26	12	20	1.12	12	0.010	**56**	Satisfactory
58	08-10-2024	56	27	12	21	1.07	12	0.010	**56**	Satisfactory
59	11-10-2024	62	30	12	22	0.93	13	0.020	**62**	Satisfactory
60	15-10-2024	73	34	13	23	1.03	14	0.010	**73**	Satisfactory
61	18-10-2024	69	32	12	21	0.73	13	0.020	**69**	Satisfactory
62	22-10-2024	77	38	13	24	0.68	15	0.010	**77**	Satisfactory
63	25-10-2024	86	42	11	22	0.56	15	0.010	**86**	Satisfactory
64	29-10-2024	91	45	12	18	0.71	17	0.020	**91**	Satisfactory
NOVEMBER										
65	01-11-2024	80	42	12	21	0.59	19	0.030	**80**	Satisfactory
66	05-11-2024	86	44	14	19	0.73	21	0.020	**86**	Satisfactory
67	08-11-2024	82	40	13	19	0.60	19	0.020	**82**	Satisfactory
68	12-11-2024	81	39	13	18	0.81	18	0.020	**81**	Satisfactory
69	15-11-2024	73	35	11	17	0.55	16	0.010	**73**	Satisfactory
70	19-11-2024	78	39	12	17	0.69	18	0.030	**78**	Satisfactory
71	22-11-2024	85	44	12	17	0.89	17	0.030	**85**	Satisfactory
72	26-11-2024	81	39	11	16	0.71	16	0.020	**81**	Satisfactory
73	29-11-2024	76	36	12	18	0.63	18	0.020	**76**	Satisfactory
DECEMBER										
74	03-12-2024	74	38	11	19	0.85	17	0.010	**74**	Satisfactory
75	06-12-2024	77	40	11	17	0.74	18	0.010	**77**	Satisfactory
76	10-12-2024	85	41	12	18	0.63	19	0.050	**85**	Satisfactory
77	13-12-2024	79	38	11	17	0.52	18	0.030	**79**	Satisfactory

78	17-12-2024	76	41	13	18	0.49	17	0.030	**76**	Satisfactory
79	20-12-2024	69	36	12	18	0.57	19	0.030	**69**	Satisfactory
80	24-12-2024	74	39	12	17	0.71	17	0.020	**74**	Satisfactory
81	27-12-2024	72	34	11	17	0.95	18	0.010	**72**	Satisfactory
82	31-12-2024	65	37	13	18	0.87	19	0.020	**65**	Satisfactory
JANUARY										
83	03-01-2025	79	38	12	18	0.68	19	0.04	**79**	Satisfactory
84	07-01-2025	82	42	12	18	0.79	17	0.02	**82**	Satisfactory
85	10-01-2025	87	44	13	18	0.83	18	0.03	**87**	Satisfactory
86	14-01-2025	75	36	11	16	0.72	17	0.03	**75**	Satisfactory
87	17-01-2025	66	33	12	18	0.94	19	0.04	**66**	Satisfactory
88	21-01-2025	79	40	13	19	1.05	18	0.03	**79**	Satisfactory
89	24-01-2025	71	36	12	17	0.88	20	0.05	**71**	Satisfactory
90	28-01-2025	81	37	11	17	0.62	19	0.07	**81**	Satisfactory
91	31-01-2025	75	37	12	17	0.71	18	0.05	**75**	Satisfactory
FEBRUARY										
92	04-02-2025	74	36	13	18	1.06	20	0.02	**74**	Satisfactory
93	07-02-2025	79	39	12	18	1.25	19	0.05	**79**	Satisfactory
94	11-02-2025	65	32	11	17	0.92	19	0.04	**65**	Satisfactory
95	14-02-2025	72	34	12	18	0.88	18	0.03	**72**	Satisfactory
96	18-02-2025	64	32	12	16	1.13	22	0.05	**64**	Satisfactory
97	21-02-2025	69	35	12	18	0.83	20	0.06	**69**	Satisfactory
98	25-02-2025	76	38	12	18	1.10	20	0.03	**76**	Satisfactory
99	28-02-2025	65	33	11	16	1.19	23	0.04	**65**	Satisfactory
MARCH										
100	04-03-2025	77	38	12	16	1.34	23	0.06	**77**	Satisfactory
101	07-03-2025	71	34	11	16	1.18	22	0.08	**71**	Satisfactory
102	11-03-2025	78	38	12	17	1.06	25	0.05	**78**	Satisfactory
103	14-03-2025	65	31	11	16	1.24	21	0.03	**65**	Satisfactory
104	18-03-2025	73	37	11	17	1.09	23	0.04	**73**	Satisfactory
105	21-03-2025	67	32	12	15	1.12	22	0.05	**67**	Satisfactory
106	25-03-2025	76	33	12	16	0.98	23	0.07	**76**	Satisfactory
107	28-03-2025	71	37	12	17	0.87	20	0.04	**71**	Satisfactory
* No Monitoring										

ANNEXURE - VII A

NWMP ANNUAL REPORT 2024-2025 WITH RESPECT TO TRACE HEAVY METALS

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
1	RIVER CHAPORA NEAR ALORNA FORT, PERNEM	BDL	BDL	BDL	BDL	BDL	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.154	BDL	0.326	0.05	0.083	BDL	BDL
2	RIVER KALNA AT CHANDEL, PERNEM	BDL	BDL	BDL	BDL	0.001	0.002	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.095	0.06	0.306	0.03	0.022	BDL	BDL
3	RIVER ASSANORA AT ASSANORA	BDL	BDL	BDL	BDL	0.001	0.002	BDL	BDL	0.001	BDL	BDL	BDL	0.001	0.016	0.24	0.069	0.05	0.01	BDL	BDL
4	RIVER VALVANTI AT SANQUELIM	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	0.01	BDL	BDL	BDL	BDL	BDL	0.03	0.059	0.003	0.028	BDL	BDL
5	RIVER MADEI AT DABOSE, VALPOI	BDL	BDL	BDL	BDL	0.002	0.005	BDL	0.002	0.01	BDL	BDL	BDL	BDL	0.023	0.04	0.069	0.001	0.019	BDL	BDL
6	HARWALE WATERFALL	BDL	BDL	BDL	0.001	0.003	0.02	BDL	BDL	0.01	BDL	BDL	BDL	BDL	0.045	0.06	0.357	0.08	0.062	BDL	BDL
7	RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM	BDL	BDL	BDL	BDL	0.001	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.04	0.028	0.16	0.173	0.024	0.017	BDL	0.006
8	MAYEM LAKE AT MAYEM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.001	0.27	0.011	0.052	BDL	0.05
9	CARAMBOLIM LAKE	BDL	BDL	BDL	BDL	0.002	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.037	0.08	0.075	0.02	0.015	BDL	BDL
10	ANJUNEM LAKE	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	0.01	BDL	BDL	BDL	0.03	0.065	0.03	BDL	0.004	0.008	BDL	BDL
11	BATIM LAKE	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.011	2.73	0.75	0.23	0.039	BDL	BDL
12	RIVER KHANDEPAR, OPA, PONDA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.007	0.084	0.089	0.24	0.006	BDL	BDL
13	RIVER KHANDEPAR AT CODLI	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.011	0.12	0.056	0.11	0.485	BDL	BDL
14	RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.007	0.004	0.017	0.08	0.008	BDL	BDL
15	RIVER TALPONA AT CANACONA	BDL	BDL	BDL	BDL	0.001	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.051	0.35	0.163	0.29	0.038	BDL	BDL

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
16	CREEK AT DANDO MOLLO, VELSAO, MORMUGAO	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.023	BDL	BDL	0.008	BDL	BDL	BDL
17	SELAULIM RESERVOIR AT SELAULIM, SANGUEM	BDL	BDL	BDL	BDL	BDL	0.006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.023	BDL	0.258	BDL	0.017	BDL	BDL
18	RAITOLLEM LAKE	BDL	BDL	BDL	BDL	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5	0.074	0.76	0.087	0.88	0.008	BDL	BDL
19	SAIPEM LAKE, NAVELIM	-	BDL	-	BDL	-	0.001	-	BDL	-	BDL	-	BDL	-	0.009	-	0.63	-	0.106	-	BDL
20	CURTORIM LAKE, CURTORIM	BDL	BDL	BDL	BDL	0.002	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.006	0.5	0.485	0.013	0.06	BDL	BDL
21	CHAPOLI DAM	BDL	BDL	BDL	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.047	0.03	0.297	0.97	0.023	BDL	BDL
22	AMBULOR LAKE	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.017	0.55	0.279	0.04	0.02	BDL	BDL
23	SARZORA LAKE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.003	0.06	0.019	0.012	0.015	BDL	BDL
24	DASHI LAKE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.007	0.001	0.069	0.03	0.025	BDL	BDL
25	TOYYAR LAKE	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.008	0.102	0.02	0.009	BDL	BDL
26	PILERNE LAKE/SAULEM LAKE, PILERNE, SANGOLDA	BDL	BDL	BDL	BDL	BDL	0.005	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.076	0.3	0.398	0.04	0.193	BDL	BDL
27	BONDVOL LAKE, CALAPUR, TALEIGAO	-	BDL	-	BDL	-	0.04	-	BDL	-	BDL	-	BDL	-	BDL	-	0.136	-	0.082	-	BDL
28	SULABHAT LAKE, AGACAIM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	0.004	0.11	0.003	BDL	BDL
29	MALEBHAAT LAKE, TISWADI	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	BDL	BDL	0.02	0.001	BDL	BDL
30	GAWALI MAULA LAKE, TISWADI	BDL	BDL	BDL	BDL	0.03	BDL	BDL	BDL	1.3	BDL	0.53	BDL	BDL	BDL	3.78	0.318	0.34	0.002	BDL	BDL
31	CURCA LAKE, TISWADI	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	0.058	-	BDL	-	BDL
32	CANTURLIM LAKE, TISWADI	BDL	BDL	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	0.1	BDL	BDL	BDL	0.55	0.138	0.03	0.037	BDL	BDL
33	PARRA LAKE, BARDEZ	BDL	BDL	BDL	BDL	0.004	0.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.01	BDL	0.105	0.02	0.04	BDL	0.00
34	KHANDEPAR LAKE, BICHOLIM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.00	BDL	0.002	0.072	0.005	BDL	BDL
35	BANASTARIM LAKE	BDL	BDL	BDL	BDL	0.004	0.03	0.002	BDL	BDL	BDL	BDL	BDL	0.009	BDL	BDL	0.229	0.01	0.002	BDL	0.00

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
36	XELDEM LAKE	0.001	BDL	BDL	BDL	0.001	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.004	0.121	1.0	0.52	0.1	0.305	BDL	BDL
37	NANDA LAKE	BDL	BDL	BDL	BDL	BDL	0.004	BDL	0.002	BDL	BDL	BDL	BDL	0.001	0.063	0.65	0.398	0.1	0.037	BDL	BDL
38	COTTOMBI LAKE	BDL	BDL	BDL	BDL	BDL	0.012	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.07	1.02	0.251	0.12	0.02	BDL	BDL
39	PANCHAMI LAKE, PONDA	BDL	BDL	BDL	BDL	0.002	BDL	0.001	BDL	BDL	BDL	BDL	BDL	0.002	0.025	2.48	0.5	1.95	0.13	BDL	BDL
40	BETAL TEMPLE LAKE, PONDA	BDL	BDL	BDL	BDL	0.002	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.15	1.26	0.095	0.09	0.022	BDL	BDL
41	KARMALE LAKE, PONDA	BDL	BDL	BDL	BDL	0.001	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.001	1.53	0.03	0.3	0.29	BDL	BDL
42	DHULPE LAKE, SHIRODA, PONDA	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	0.065	-	0.103	-	0.01
43	UDDEN LAKE, SHIRODA, PONDA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	0.61	0.08	0.68	0.009	BDL	BDL
44	TARVALEM LAKE, SHIRODA, PONDA	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	0.172	-	0.007	-	BDL
45	TARVALE (MOIGAL) LAKE, SHIRODA, PONDA	BDL	BDL	BDL	BDL	0.001	0.256	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	0.77	0.074	0.05	0.013	BDL	BDL
46	TALAULIM (TALSAL) LAKE, PONDA	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.003	BDL	0.7	0.104	0.07	0.003	BDL	BDL
47	MACASANA LAKE, MACASANA, CURTORIM	BDL	BDL	BDL	BDL	0.008	0.001	BDL	BDL	BDL	BDL	BDL	BDL	0.007	0.02	2.25	3.478	0.03	0.281	BDL	BDL
48	MAIMOLLEM LAKE, VASCO	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.014	0.06	0.03	0.07	0.022	BDL	BDL
49	BANDOLEM LAKE, SANCOALE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	0.106	0.1	0.017	BDL	BDL
50	DURGA LAKE, CHINCHINIM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.014	BDL	0.001	0.82	0.086	0.002	0.007	BDL	BDL
51	SAPU TOLLEM (TOLLEA BANDAR), VELIM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.022	BDL	BDL	1.03	0.087	0.017	0.011	BDL	BDL
52	ORLIM LAKE, ORLIM	0.001	BDL	BDL	BDL	0.001	BDL	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.44	0.037	1.13	0.238	BDL	0.017
53	VODLE TOLLEM, BENAULIM	BDL	BDL	BDL	BDL	0.001	BDL	0.001	BDL	BDL	BDL	0.004	BDL	0.006	0.006	5.55	0.009	1.18	0.002	BDL	BDL
54	DHAKTE (DIULER) TOLLEM, BENAULIM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
55	KAMALA LAKE (KOMOLLAM TOLLEM), BENAULIM	0.001	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.02	1.62	0.757	0.61	0.273	BDL	0.005
56	AGRICULTURAL CANAL UPSTREAM OF CUNCOLIM INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	0.05	BDL	BDL	0.042	0.08	0.056	0.031	0.008	BDL	BDL
57	AGRICULTURAL CANAL DOWNSTREAM OF CUNCOLIM INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	0.002	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	0.036	0.03	0.003	BDL	BDL
58	RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI	BDL	BDL	BDL	BDL	0.001	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072	0.27	0.949	0.04	0.302	BDL	BDL
59	CUMBHARJUA CANAL, CORLIM	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.006	0.019	BDL	0.256	0.008	0.019	BDL	BDL
60	RIVER MANDOVI NEAR MANDOVI BRIDGE,	BDL	BDL	BDL	BDL	0.03	BDL	0.004	BDL	BDL	BDL	BDL	BDL	BDL	0.004	BDL	BDL	0.39	0.002	BDL	BDL
61	RIVER MANDOVI AT TONCA MARCELA	BDL	BDL	0.003	BDL	0.06	BDL	0.016	BDL	BDL	BDL	BDL	BDL	0.15	BDL	0.31	0.179	0.3	0.002	BDL	BDL
62	RIVER MANDOVI NEAR HOTEL MARIOTT	BDL	BDL	BDL	BDL	0.005	BDL	0.01	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.02	BDL	0.02	0.006	BDL	BDL
63	RIVER MANDOVI AT IFFI JETTY	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.019	0.01	BDL	0.02	0.01	BDL	BDL
64	RIVER MANDOVI AT RIBANDAR-CHODAN FERRY, PANAJI	BDL	BDL	BDL	BDL	0.27	BDL	0.006	BDL	BDL	BDL	BDL	BDL	BDL	0.00	BDL	BDL	0.08	0.001	BDL	BDL
65	RIVER MANDOVI AT AMONA	BDL	BDL	0.001	BDL	0.1	0.002	0.022	BDL	BDL	BDL	BDL	BDL	0.18	0.031	0.22	0.226	0.08	0.014	BDL	BDL
66	RIVER TIRACOL AT KERI, PERNEM	0.001	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.07	BDL	0.06	0.109	BDL	BDL
67	RIVER CHAPORA NEAR SIOLIM BRIDGE	0.001	BDL	BDL	BDL	0.001	0.019	BDL	BDL	BDL	BDL	BDL	BDL	0.001	0.116	0.06	1.64	1.89	2.669	BDL	0.002
68	RIVER SINQUERIM, CANDOLIM SIDE	BDL	BDL	BDL	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.013	BDL	BDL	BDL
69	RIVER SINQUERIM, NEAR GANPATI TEMPLE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.04	0.033	0.03	BDL	BDL	BDL

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
70	RIVER SAL AT RUMDER, NUVEM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.012	0.27	0.244	0.009	0.01	BDL	0.0
71	RIVER SAL AT PAZORCONI, CUNCOLIM	BDL	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	0.005	0.218	BDL	0.011	0.26	0.336	0.006	0.015	BDL	0.005
72	RIVER SAL AT MOBOR	0.001	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.27	0.025	0.09	0.096	BDL	0.007
73	RIVER ZUARI AT PANCHAWADI	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	0.16	0.019	0.18	0.019	BDL	0.007
74	RIVER ZUARI AT CORTALIM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.001	BDL	BDL	0.03	BDL	BDL	BDL
75	RIVER SAL AT ORLIM BRIDGE	0.001	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.003	0.47	BDL	0.68	0.006	BDL	BDL
76	RIVER SAL AT KHAREBAND, MARGAO	0.001	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.007	1.36	0.025	0.36	0.006	BDL	BDL
77	RIVER ZUARI AT MADKAI JETTY	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.12	0.001	BDL	BDL
78	RIVER ZUARI AT BORIM BRIDGE	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	0.003	BDL	0.02	BDL	BDL	0.009	0.12	BDL	3.31	0.005	BDL	BDL
79	TIRACOL BEACH	BDL	1.3.52	BDL	0.014	0.002	0.086	0.003	0.424	BDL	3.67	BDL	0.944	0.12	1.36	BDL	0.812	0.64	4.691	BDL	BDL
80	MIRAMAR BEACH	BDL	BDL	BDL	BDL	0.03	0.003	BDL	BDL	BDL	BDL	BDL	BDL	0.35	0.052	3.05	BDL	0.7	0.003	BDL	BDL
81	CALANGUTE BEACH	BDL	BDL	BDL	BDL	0.003	BDL	0.001	BDL	BDL	BDL	BDL	BDL	0.11	0.019	BDL	BDL	0.12	0.015	BDL	BDL
82	MORJIM BEACH	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.003	0.074	BDL	0.099	0.03	0.201	BDL	BDL
83	VAGATOR BEACH	BDL	BDL	BDL	BDL	0.003	BDL	0.001	BDL	BDL	BDL	BDL	BDL	0.04	0.015	BDL	BDL	0.1	0.76	BDL	BDL
84	ARAMBOL BEACH	BDL	1.371	BDL	0.015	0.003	0.966	0.013	0.366	BDL	4.141	BDL	1.085	0.02	1.687	0.16	1.163	0.2	8.874	BDL	BDL
85	BAGA BEACH	BDL	BDL	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	BDL	BDL	0.01	0.05	BDL	BDL	0.051	0.027	BDL	BDL
86	BAMBOLIM BEACH	BDL	BDL	BDL	BDL	0.011	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.047	BDL	BDL	0.69	BDL	BDL	BDL
87	MOBOR BEACH	BDL	BDL	BDL	BDL	0.003	BDL	0.003	BDL	BDL	BDL	BDL	BDL	0.06	0.103	BDL	BDL	0.26	0.138	BDL	BDL
88	BAINA BEACH	BDL	BDL	BDL	0.002	0.005	BDL	0.009	BDL	BDL	BDL	BDL	BDL	0.11	0.04	BDL	BDL	0.19	0.008	BDL	BDL
89	GALGIBAG BEACH	0.09	BDL	BDL	BDL	0.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.044	0.5	1.704	BDL	BDL
90	COLVA BEACH	BDL	BDL	BDL	BDL	0.02	BDL	0.009	BDL	BDL	BDL	BDL	BDL	0.009	0.122	0.06	BDL	0.01	0.05	BDL	BDL
91	VELSAO BEACH	BDL	BDL	BDL	BDL	0.009	BDL	0.008	BDL	BDL	BDL	BDL	BDL	0.006	0.013	BDL	BDL	0.03	0.036	BDL	BDL
92	BOGMALO BEACH	BDL	BDL	BDL	BDL	0.011	BDL	0.004	BDL	BDL	BDL	BDL	BDL	0.22	BDL	0.04	BDL	0.17	0.068	BDL	BDL
93	BETALBATIM BEACH	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.1	2.699	BDL	BDL	0.03	0.049	BDL	BDL
94	BENAULIM BEACH	BDL	BDL	BDL	BDL	0.007	BDL	0.003	BDL	BDL	BDL	BDL	BDL	0.011	0.273	BDL	0.138	0.07	0.017	BDL	BDL

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
95	VARCA BEACH	BDL	BDL	BDL	BDL	0.03	BDL	0.006	BDL	BDL	BDL	BDL	BDL	0.013	0.015	0.58	BDL	0.26	BDL	BDL	BDL
96	AGONDA BEACH	BDL	0.004	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	0.82	1.103	BDL	BDL
97	PALOLEM BEACH	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	0.026	BDL	2.535	0.24	0.925	BDL	BDL
98	RAJBHAG BEACH	BDL	0.004	BDL	BDL	0.009	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.002	0.027	BDL	0.62	1.03	0.1	BDL	BDL
99	UPSTREAM OF RIVER MANDOVI, M/S VEDANTA PVT. LTD.	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.023	BDL	0.165	0.008	0.012	BDL	BDL
100	DOWNSTREAM OF RIVER MANDOVI, M/S VEDANTA PVT. LTD.	BDL	BDL	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.006	0.06	0.097	0.01	0.027	BDL	0.001
101	ST.INEZ CREEK UPSTREAM	-	0.003	-	BDL	-	0.06	-	BDL	-	BDL	-	BDL	-	0.017	-	1.647	-	0.007	-	BDL
102	ST.INEZ CREEK DOWNSTREAM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.005	0.02	BDL	0.03	0.009	BDL	BDL
103	COLVA CREEK UPSTREAM	0.002	BDL	BDL	BDL	BDL	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.097	0.18	1.458	0.4	0.068	BDL	0.004
104	COLVA CREEK DOWNSTREAM	BDL	BDL	BDL	BDL	BDL	0.003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.065	0.09	1.151	1.22	0.011	BDL	BDL
105	UPSTREAM OF BETHORA NALLAH	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	0.003	-	0.03	-	BDL	-	0.218	-	BDL
106	DOWNSTREAM OF BETHORA NALLAH	-	BDL	-	BDL	-	0.005	-	BDL	-	BDL	-	BDL	-	0.06	-	0.134	-	0.026	-	BDL
107	BOREWELL/ TUBE WELL/ OPEN WELL KUNDAIM INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	0.002	0.014	BDL	BDL	BDL	BDL	0.02	0.005	0.1	0.025	0.61	0.143	0.56	0.176	BDL	BDL
108	BORE WELL/ TUBE WELL / OPENWELL IN CORLIM INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	0.002	BDL	BDL	BDL	0.001	BDL	0.009	BDL	0.008	0.008	0.007	BDL	0.1	0.025	BDL	BDL
109	BOREWELL/TUBE WELL/OPEN WELL IN PILERNE INDUSTRIAL ESTATE	BDL	0.007	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.04	BDL	0.33	0.004	BDL	BDL

Sr. No.	Station Name	Arsenic(mg/l)		Cadmium (mg/l)		Copper (mg/l)		Lead(mg/l)		Chromium (mg/l)		Nickel(mg/l)		Zinc(mg/l)		IronTotal (mg/l)		Manganese (mg/l)		Mercury (mg/l)	
		Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct	Apr	Oct
110	BOREWELL/TUBE WELL/OPEN WELL AT SANCOALE INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.08	0.075	BDL	BDL
111	BOREWELL/TUBE WELL/ OPEN WELL AT VERNA INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	0.001	BDL	BDL	BDL	BDL	BDL	0.001	BDL	0.011	0.008	0.43	BDL	0.02	0.005	BDL	0.021
112	BORE WELL/TUBE WELL/ OPEN WELL IN CUNCOLIM INDUSTRIAL ESTATE	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	BDL	-	0.18	-	0.02	-	BDL	-
113	BOREWELL/TUBE WELL/OPEN WELL IN BETHORA INDUSTRIAL ESTATE	BDL	BDL	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	0.004	BDL	0.053	0.006	0.012	0.008	0.3	0.054	BDL	BDL
114	BOREWELL/ TUBEWELL/OPENWEL L IN MADKAI INDUSTRIAL ESTATE	BDL	BDL	0.001	BDL	0.001	0.003	BDL	BDL	BDL	BDL	BDL	BDL	0.01	BDL	BDL	BDL	0.15	BDL	BDL	BDL
115	SALMONA SPRING	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	BDL	0.005	0.039	BDL	BDL
116	INLET STP TONCA-PANAJI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
117	OUTLET STP TONCA - PANAJI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ANNEXURE - VII B

NWMP ANNUAL REPORT 2024-2025

RIVER CHAPORA NEAR ALORNA FORT, PERNEM													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	30	28	28	28	29	29	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	6	5.8	6.40	7.0	7.6	6.6	7.3	7.0	7.2	7.5	8.2	6.6	4 mg/l or more
3	pH	8.9	7.07	7.63	6.86	7.93	6.29	6.87	6.75	7.21	7.32	7.60	6.68	6-9
4	Conductivity (µs/cm)	8344	2497	3380	97.24	51.02	106.8	74.98	70.89	82.53	128.2	213.9	1175.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	4.8	BDL	0.1	0.36	0.18	0.1	BDL	0.1	0.2	BDL	0.3	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.008	BDL	BDL	0.005	0.01	BDL	BDL	BDL	BDL	BDL	BDL	0.006	-
8	Total Coliform(MPN/100 ml)	2700	2300	3100	1700	1300	3300	1400	1700	2000	1400	2300	1600	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	1700	1300	1300	1100	780	2300	930	1100	1400	1100	1300	920	-
10	Fecal Streptococci(MPN/100ml)	200.0	170	170.00	140	220	330	170	200	230	170	220	240	-
11	Turbidity(NTU)	4.35	6	3.31	11.44	21.6	2.1	19.43	5.13	3.82	3.31	2.7	3.91	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	48	48	56.0	28.0	24.0	38.0	24.0	24.0	22.0	28.0	26.0	40.0	-
14	Chlorides(mg/l)	2374.3	50	1299.6	13.0	7.0	5.0	9.0	10.4	12.0	24.49	48.48	39.99	-
15	COD(mg/l)	-	6	10.0	4.0	6.0	8.0	8.0	6.0	12.0	8.0	12.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	2	1.1	1.68	0.56	1.1208	1.12	0.56	2.80	1.68	1.12	0.56	-
17	Ammonia (mg/l)	0.1	BDL	0.05	BDL	BDL	BDL	0.16	BDL	BDL	BDL	0.08	BDL	-
18	Total Hardness(mg/l)	1800.0	216	338.0	30.0	18.0	36.0	20.0	28.0	36.0	26.0	54.0	148.0	-

19	Calcium(mg/l)	53.7	17.6	64.9	7.2	3.20	7.2	5.6	6.41	5.6	6.4	5.6	17.64	-
20	Magnesium(mg/l)	404.8	41.8	42.8	2.9	2.43	4.4	BDL	2.92	5.3	2.4	9.7	25.27	-
21	Sulphate(mg/l)	140.3	60.2	96.30	7.7	5.66	8.2	4.7	2.77	3.6	6.9	10.0	25.65	-
22	Sodium(mg/l)	925.0	965	972	4.8	3.4	12.7	36.3	12.1	30.0	26.8	28.9	1350.0	-
23	Total Dissolved Solids(mg/l)	4688.0	1553.0	2211.0	60.0	31.0	70.0	47.0	45.0	51.0	74.0	128.0	677.0	-
24	Total Fixed Solids(mg/l)	1594.0	523	912.0	24.0	18.0	23.0	30.0	29.0	21.0	25.0	51.0	405.0	-
25	Total Suspended Solids(mg/l)	14	5	10.0	20.0	5.0	8.0	28.0	8.0	8.0	8.0	8.0	9.0	-
26	Phosphate(mg/l)	BDL	BDL	0.16	0.02	0.03	0.02	0.04	0.025	BDL	BDL	BDL	0.10	-
27	Boron(mg/l)	0.2	0.2	1.2	BDL	0.007	BDL	0.001	0.015	BDL	BDL	0.3	1.3	-
28	Potassium(mg/l)	325	355	358	2.3	2.4	4.8	20.1	4.9	1.7	1.9	3.2	1530	-
29	Flouride(mg/l)	0.6	BDL	0.5	BDL	BDL	BDL	BDL	0.28	0.2	0.3	0.3	BDL	-
30	SAR	61.09	177.03	132.46	2.132	2.02	5.3	19.27	5.60	12.82	12.8	10.4	291.45	-
31	Percent Sodium (%)	-	-	-	41.207	50.70	60.2	88.82	64.56	74.30	76.4	67.7	97.79	-
RIVER KALNA AT CHANDEL, PERNEM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	30	28	28	28	29	29	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	7	3.9	5.1	7.8	7.5	6.7	7.4	7.5	6.70	7.1	8.0	6.9	4 mg/l or more
3	pH	6.89	7.13	7.26	6.95	7.62	7.54	7.03	6.83	7.15	7.44	6.83	7.02	6-9
4	Conductivity(µs/cm)	88.3	77.97	83.74	59.25	46.0	84.82	66.51	70.9	65.15	73.1	90.75	91.10	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	0.10	0.20	0.10	0.13	0.17	0.1	BDL	0.1	0.2	0.12	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.010	0.005	BDL	BDL	0.019	BDL	BDL	BDL	BDL	0.011	-
8	Total Coliform (MPN/100ml)	1700	1400	4900	3300	2300	4900	1700	1400	1700	1300	2000	1600	5000 or less MPN/100 ml

9	Fecal Coliform(MPN/100 ml)	1300	1100	2300	1700	1300	2300	1100	780	780	780	1100	540	-
10	Fecal Streptococci (MPN/100ml)	170	150	230	210	170	490	120	110	170	170	210	350	-
11	Turbidity(NTU)	4.1	5.80	3.13	11.82	23.2	11.75	94.9	4.99	3.41	3.11	2.90	2.93	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	32	40.0	36.0	26.0	6.0	30.0	24.0	22.0	26.0	36.0	42.0	30.0	-
14	Chlorides(mg/l)	6.0	12.00	7.00	6.0	5.50	10.5	7.5	2.50	5.50	6.50	6.50	5.0	-
15	COD(mg/l)	10.00	8.0	10.0	4.0	6.0	6.0	8.0	8.0	12.0	10.0	8.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.7	1.7	1.12	1.12	1.6812	1.12	2.24	2.80	2.24	1.12	2.24	-
17	Ammonia (mg/l)	0.1	0.16	0.10	BDL	BDL	0.09	0.16	BDL	BDL	BDL	0.09	0.11	-
18	Total Hardness(mg/l)	20.0	28.0	30.0	20.0	24.0	18.0	22.0	32.0	32.0	32.0	36.0	34.0	-
19	Calcium(mg/l)	4.00	8.00	7.20	4.8	4.01	3.2	5.6	7.21	6.4	8.0	7.2	7.21	-
20	Magnesium(mg/l)	2.4	1.9	2.9	1.9	3.40	2.4	BDL	3.40	3.9	2.9	4.4	3.89	-
21	Sulphate(mg/l)	3.2	3.3	3.7	7.8	3.95	8.6	7.2	BDL	0.6	5.5	17.9	4.81	-
22	Sodium(mg/l)	64.0	67.0	63.0	9.8	3.6	8.2	33.6	8.1	29.8	22.1	20.2	32.2	-
23	Total Dissolved Solids(mg/l)	56.0	49.0	53.0	36.0	29.0	56.0	41.0	46.0	41.0	40.0	54.0	54.0	-
24	Total Fixed Solids(mg/l)	35.0	16.0	22.0	15.0	17.0	19.0	27.0	31.0	17.0	13.0	22.0	32.0	-
25	Total Suspended Solids(mg/l)	10	6.0	9.0	21.0	5.0	29.0	45.0	14.0	7.0	7.0	7.0	8.0	-
26	Phosphate(mg/l)	BDL	0.020	0.270	0.02	BDL	0.02	0.06	0.025	BDL	BDL	BDL	0.02	-
27	Boron(mg/l)	0.86	0.2	0.6	BDL	0.001	BDL	BDL	0.013	BDL	BDL	0.2	0.5	-
28	Potassium(mg/l)	55.7	56.8	56.2	7.2	1.9	3.4	17.4	3.0	1.4	1.4	2.0	22.7	-
29	Flouride(mg/l)	0.21	BDL	BDL	BDL	BDL	0.4	BDL	BDL	0.3	BDL	0.3	0.3	-
30	SAR	35.78	30.02	27.99	5.333	1.87	4.9	17.35	3.52	13.13	9.5	8.4	13.67	-
31	Percent Sodium (%)	-	-	-	71.581	42.60	67.3	87.18	51.12	75.2	68.3	65.7	83.18	-

RIVER ASSANORA AT ASSANORA													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	30	29	28	28	27	27	28	29	28	28	-
2	Dissolved Oxygen(mg/l)	6	6.8	5.8	7.0	6.8	6.1	6.1	6.5	6.7	6.1	6.1	6.0	4 mg/l or more
3	pH	6.2	6.33	7.13	7.22	6.23	6.16	6.87	6.87	6.43	6.84	6.5	6.80	6-9
4	Conductivity(µs/cm)	51.33	56.4	88.53	46.59	45.37	45.86	76.58	58.50	72.46	65.25	61.6	65.40	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	0.1	0.3	0.2	BDL	0.26	0.20	0.1	0.14	0.2	0.1	0.17	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	2000	2400	2300	490	790	2200	2700	2200	2700	2100	2100	430	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	1400	1700	1300	230	330	780	1100	1300	1700	1300	1400	350	-
10	Fecal Streptococci (MPN/100ml)	200	210	170	94	79	170	210	240	260	230	270	280	-
11	Turbidity(NTU)	4.54	1.68	1.09	7.69	6.67	4.92	7.58	4.12	4.47	2.78	3.9	4.22	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	26.0	34.0	20.0	16.0	2.0	22.0	16.0	16.0	20.0	26.0	20.0	20.0	-
14	Chlorides(mg/l)	3.5	16.5	13.0	5.5	5.5	7.5	8.99	8.5	7.5	16.0	9.0	4.0	-
15	COD(mg/l)	2.0	6.0	6.0	4.0	4.0	10.0	4.0	8.0	8.0	6.0	10.0	BDL	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	0.56	1.12	1.68	1.68	1.12	2.24	0.56	1.68	0.56	1.12	3.36	-
17	Ammonia (mg/l)	BDL	BDL	0.04	BDL	BDL	BDL	0.074	BDL	0.05	0.1	BDL	0.07	-
18	Total Hardness(mg/l)	18.00	30.0	26.0	10.0	18.0	20.0	16.0	30.0	98.0	26.0	16.0	20.0	-
19	Calcium(mg/l)	4.0	7.21	7.20	3.2	4.0	4.0	4.0	4.8	4.8	4.0	4.0	2.40	-
20	Magnesium(mg/l)	BDL	2.9	1.9	0.5	BDL	2.4	BDL	4.4	20.9	3.9	BDL	3.40	-

21	Sulphate(mg/l)	2.0	2.1	2.9	3.2	3.3	2.0	5.36	4.3	5.0	3.2	4.9	BDL	-
22	Sodium(mg/l)	3.2	3.1	3.5	3.9	4.3	12.4	12.4	4.2	26.2	11.2	26.2	13.0	-
23	Total Dissolved Solids(mg/l)	32.0	37.0	55.0	30.0	29.0	29.0	48.0	37.0	43.0	39.0	39.0	38.0	-
24	Total Fixed Solids(mg/l)	20.0	22.0	33.0	12.0	12.0	12.0	24.0	22.0	17.0	27.0	23.0	25.0	-
25	Total Suspended Solids(mg/l)	9.00	10.0	11.0	5.0	5.0	6.0	4.0	8.0	6.0	5.0	5.0	BDL	-
26	Phosphate(mg/l)	BDL	0.036	0.02	BDL	BDL	BDL	BDL	BDL	0.093	0.03	BDL	BDL	-
27	Boron(mg/l)	BDL	1.12	0.88	BDL	0.005	0.006	BDL	BDL	BDL	BDL	0.4	0.63	-
28	Potassium(mg/l)	2.7	2.6	2.7	3.2	2.1	10.1	10.1	2.0	21.3	9.4	2.1	2.5	-
29	Flouride(mg/l)	0.2	0.3	BDL	0.2	0.2	0.2	0.31	0.3	0.3	0.4	0.2	BDL	-
30	SAR	1.86	1.4	1.6	2.9	2.5	6.91	7.56	2.0	7.3	3.11	15.84	7.63	-
31	Percent Sodium (%)	-	-	-	65.8	51.8	77.8	80.65	40.3	64.88	44.3	83.80	72.77	-
RIVER VALVANTI AT SANQUELIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	30	29	28	28	27	28	28	28	28	29	-
2	Dissolved Oxygen(mg/l)	7.30	8.0	7.2	7.1	8.1	6.7	6.9	7.1	8.0	7.0	8.0	7.5	4 mg/l or more
3	pH	6.62	6.71	7.28	7.37	6.43	6.28	6.79	7.16	6.58	6.88	6.5	6.77	6-9
4	Conductivity(µs/cm)	69.72	63.40	60.79	43.98	45.08	50.67	71.29	70.82	76.54	65.17	62.4	75.20	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.1	0.28	BDL	BDL	0.38	0.142	0.2	0.2	0.2	BDL	0.14	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.006	BDL	0.008	BDL	BDL	BDL	0.009	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	2400	2100	1700	4600	4600	7900	4900	4600	2300	2100	1400	1600	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	1700	1300	1100	2100	2100	2300	2300	2300	1300	1100	790	430	-

10	Fecal Streptococci (MPN/100ml)	140	110	120	230	140	210	210	220	210	200	170	220	-
11	Turbidity(NTU)	5.2	4.83	BDL	14.73	3.15	4.05	10.57	2.45	4.0	9.16	3.0	3.86	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	34	44.0	18.0	14.0	2.0	28.0	26.0	26.0	20.0	30.0	28.0	24.0	-
14	Chlorides(mg/l)	4.0	6.0	8.5	4.0	4.5	6.0	6.99	34.99	7.50	12.0	8.0	3.50	-
15	COD(mg/l)	4.0	8.0	4.0	4.0	10.0	10.0	4.0	8.0	6.0	8.0	8.0	BDL	-
16	Total Kjeldahl Nitrogen(mg/l)	3.36	1.120	0.56	1.12	1.12	1.12	1.12	0.56	1.1	1.12	0.56	1.12	-
17	Ammonia (mg/l)	BDL	BDL	0.04	BDL	BDL	BDL	BDL	0.05	0.07	0.23	BDL	0.05	-
18	Total Hardness(mg/l)	22.00	32.0	24.0	20.0	12.0	22.0	22.0	42.0	74.0	20.0	30.0	22.0	-
19	Calcium(mg/l)	4.80	4.810	5.6	5.61	4.0	4.0	3.2	10.42	8.0	5.6	8.0	4.81	-
20	Magnesium(mg/l)	2.43	4.9	2.4	BDL	BDL	2.9	3.4	3.89	13.1	BDL	2.4	2.43	-
21	Sulphate(mg/l)	2.87	3.0	3.1	3.90	2.2	2.1	4.91	2.58	4.3	6.7	3.1	BDL	-
22	Sodium(mg/l)	4.4	4.3	5.0	13.2	3.2	12.2	12.2	15.9	27.0	11.4	25.4	13.6	-
23	Total Dissolved Solids(mg/l)	43.0	39.0	39.0	27.0	29.0	31.0	47.0	41.0	46.0	39.0	40.0	45.0	-
24	Total Fixed Solids(mg/l)	13.0	23.0	23.0	16.0	12.0	13.0	32.0	26.0	18.0	28.0	24.0	30.0	-
25	Total Suspended Solids(mg/l)	9	11.0	6.0	16.0	4.0	5.0	13.0	8.0	6.0	19.0	3.0	4.0	-
26	Phosphate(mg/l)	BDL	0.03	0.023	0.03	0.09	BDL	0.03	0.02	0.04	BDL	BDL	0.02	-
27	Boron(mg/l)	0.3	1.05	0.69	BDL	0.011	0.021	BDL	BDL	BDL	BDL	0.6	0.73	-
28	Potassium(mg/l)	3.9	3.8	3.9	6.1	1.7	10.4	10.4	8.6	22.5	9.6	1.7	2.5	-
29	Flouride(mg/l)	BDL	0.3	BDL	BDL	0.2	0.5	0.19	0.8	0.2	BDL	0.1	BDL	-
30	SAR	2.31	2.0	2.5	7.03	2.1	6.56	6.70	5.94	8.3	3.63	11.11	7.15	-
31	Percent Sodium (%)	-	-	-	73.22	52.2	76.5	77.40	63.13	70.08	51.60	72.17	68.98	-

RIVER MADEI AT DABOSE, VALPOI													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	28	29	31	29	29	28	26	27	26	28	27	28	-
2	Dissolved Oxygen(mg/l)	7.5	7.6	7.2	8.1	6.5	5.2	7.5	6.7	7.8	7.1	6.9	6.2	4 mg/l or more
3	pH	6.53	7.08	7.48	7.60	6.44	5.93	6.93	6.70	6.98	7.05	6.5	7.03	6-9
4	Conductivity(µs/cm)	66.49	134.1	89.05	47.77	56.72	68.63	73.0	61.11	74.85	81.03	97.83	130.6	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.14	BDL	0.34	0.2	BDL	0.33	BDL	BDL	BDL	0.4	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	3500	3300	1700	1700	1300	4900	2300	2000	1700	1400	1300	1600	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	1700	1300	1100	1100	490	780	780	780	780	680	790	920	-
10	Fecal Streptococci (MPN/100ml)	170	140	140	210	110	130	170	140	200	130	210	350	-
11	Turbidity(NTU)	5.0	2.56	0.05	15.55	3.62	2.46	4.64	4.73	7.0	1.85	3.0	4.36	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	30.0	80.0	54.0	20.0	2.8	36.0	22.0	20.0	40.0	36.0	42.0	42.0	-
14	Chlorides(mg/l)	5.0	7.0	40.49	4.5	5.0	6.0	4.99	24.5	6.0	13.0	8.0	4.50	-
15	COD(mg/l)	4.0	6.0	8.0	4.0	6.0	10.0	BDL	6.0	8.0	6.0	10.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	1.68	1.12	1.12	1.12	1.12	1.68	1.12	1.1	0.56	1.12	1.68	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	0.07	BDL	0.06	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	22.00	64.0	62.0	24.0	20.0	24.0	24.0	16.0	26.0	32.0	52.0	42.0	-
19	Calcium(mg/l)	5.61	16.03	12.826	5.6	4.8	7.2	6.4	5.6	6.4	6.4	14.4	9.62	-
20	Magnesium(mg/l)	1.94	5.8	7.3	2.4	BDL	1.5	1.9	0.5	2.4	3.9	3.9	4.37	-

21	Sulphate(mg/l)	2.97	1.1	6.387	4.0	2.3	BDL	2.87	6.4	8.2	2.3	3.6	4.01	-
22	Sodium(mg/l)	4.5	4.6	3.7	4.2	3.8	11.8	11.8	34.4	26.1	12.1	20.1	14.1	-
23	Total Dissolved Solids(mg/l)	37.0	86.0	55.0	31.0	36.0	43.0	52.0	37.0	45.0	49.0	63.0	80.0	-
24	Total Fixed Solids(mg/l)	13.0	52.0	33.0	12.0	14.0	18.0	36.0	15.0	18.0	32.0	38.0	53.0	-
25	Total Suspended Solids(mg/l)	13	14.0	BDL	10.0	4.0	4.0	13.0	7.0	10.0	4.0	5.0	5.0	-
26	Phosphate(mg/l)	BDL	BDL	0.026	BDL	0.03	BDL	BDL	0.06	0.04	BDL	BDL	BDL	-
27	Boron(mg/l)	BDL	0.91	BDL	BDL	0.007	0.005	BDL	BDL	BDL	BDL	0.5	1.01	-
28	Potassium(mg/l)	4.1	4.0	3.1	3.5	1.8	9.2	9.2	20.1	21.4	10.1	2.0	3.1	-
29	Flouride(mg/l)	BDL	0.2	0.456	BDL	BDL	BDL	BDL	0.2	0.2	0.6	0.3	0.27	-
30	SAR	2.32	1.4	1.16	2.1	2.1	5.67	5.78	19.7	12.4	3.03	6.64	5.32	-
31	Percent Sodium (%)	-	-	-	48.9	45.3	70.8	71.67	89.94	84.31	41.04	54.68	55.14	-
HARWALE WATERFALL														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	28	31	29	28	28	27	28	29	27	27	28	-
2	Dissolved Oxygen(mg/l)	7.1	8.1	7.5	7.9	7.6	7.2	7.2	7.9	8.0	6.3	7.6	7.1	4 mg/l or more
3	pH	7.18	7.35	7.18	7.64	6.90	6.69	7.16	7.37	7.01	7.35	7.2	7.17	6-9
4	Conductivity(µs/cm)	153.7	156.7	201.4	48.60	54.22	62.68	81.33	71.12	81.6	97.79	108.7	138.2	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.51	0.3	0.713	0.163	BDL	0.3	0.36	BDL	BDL	0.4	0.1	0.40	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.01	0.007	0.005	0.018	BDL	BDL	0.006	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	2400	1700	1700	4900	7900	9400	5400	3500	2400	2200	2200	540	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	1300	1300	1300	2300	2200	4900	1400	1700	1300	1100	1100	430	-

10	Fecal Streptococci (MPN/100ml)	280	220	220	260	490	470	350	240	220	170	240	280	-
11	Turbidity(NTU)	2.8	3.5	1.3	104.0	8.95	9.09	11.93	6.46	0.27	3.62	4.2	4.16	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	82.0	90.0	34.0	16.0	2.0	26.0	16.0	20.0	34.0	42.0	42.0	46.0	-
14	Chlorides(mg/l)	6.0	9.00	45.48	3.99	3.5	8.0	7.49	6.0	7.498	18.0	10.0	6.50	-
15	COD(mg/l)	4.0	4.0	4.0	4.0	4.0	10.0	BDL	4.0	4.0	6.0	8.0	BDL	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	1.68	1.681	0.56	1.12	2.24	4.48	0.56	0.6	1.12	0.56	3.92	-
17	Ammonia (mg/l)	BDL	BDL	BDL	0.06	BDL	0.06	BDL	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	62.0	68.0	60.0	20.0	18.0	20.0	18.0	32.0	50.0	42.0	56.0	44.0	-
19	Calcium(mg/l)	18.44	23.30	7.214	6.413	4.0	4.0	4.8	12.0	11.2	8.8	12.0	11.22	-
20	Magnesium(mg/l)	3.90	2.40	10.206	0.972	BDL	2.4	BDL	0.5	5.3	4.8	6.3	3.89	-
21	Sulphate(mg/l)	4.7	3.99	4.855	13.15	2.6	2.6	7.99	2.5	2.7	5.0	5.6	4.46	-
22	Sodium(mg/l)	5.3	5.3	5.3	10.5	5.4	12.7	12.7	5.4	30.3	13.0	25.9	13.4	-
23	Total Dissolved Solids(mg/l)	101.0	100.0	128.0	27.0	35.0	39.0	45.0	43.0	49.0	59.0	70.0	84.0	-
24	Total Fixed Solids(mg/l)	61.0	60.0	76.0	16.0	14.0	16.0	28.0	17.0	20.0	37.0	42.0	57.0	-
25	Total Suspended Solids(mg/l)	11.00	12.0	2.0	50.0	6.0	8.0	3.0	10.0	10.0	7.0	6.0	8.0	-
26	Phosphate(mg/l)	BDL	0.03	BDL	0.06	0.04	BDL	BDL	BDL	0.14	BDL	BDL	0.06	-
27	Boron(mg/l)	0.8	0.91	BDL	0.29	0.006		BDL	BDL	BDL	BDL	0.5	1.63	-
28	Potassium(mg/l)	5.0	5.0	5.0	5.2	3.1	9.9	9.9	3.1	24.8	9.8	1.6	2.8	-
29	Flouride(mg/l)	BDL	0.30	0.456	BDL	BDL	0.2	0.28	BDL	0.30	0.5	0.4	BDL	-
30	SAR	1.6	1.48	1.79	5.46	3.1	7.08	7.21	2.2	8.5	2.84	8.55	4.87	-
31	Percent Sodium (%)	-	-	-	68.01	58.80	77.8	80.14	40.46	68.5	35.24	59.99	51.74	-

RIVER BICHOLIM, BARAZAN NAGAR, BICHOLIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	32	30	27	28	29	28	30	29	27	31	29	-
2	Dissolved Oxygen(mg/l)	5.2	6.2	5.9	6.6	6.5	7.3	8.1	7.1	5.5	8.7	8.5	7.7	4 mg/l or more
3	pH	6.93	6.65	6.88	7.28	7.20	6.54	6.18	6.45	7.71	6.91	7.14	7.28	6-9
4	Conductivity(µs/cm)	137.20	145.3	143.6	59.11	57.94	1326.0	117.3	85.96	42.42	104.10	336.3	178.4	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.29	0.5	0.039	0.4	0.2	0.1	0.263	0.31	0.1	0.4	BDL	0.46	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.005	BDL	BDL	BDL	0.006	0.006	BDL	BDL	0.007	0.016	-
8	Total Coliform(MPN/100 ml)	4900	4600	330	680	2200	1100	2000	1700	3500	3500	3200	540	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	2300	2300	230	450	1700	780	920	780	1300	1300	1700	430	-
10	Fecal Streptococci (MPN/100ml)	220	170	110	140	170	170	210	170	170	110	130	280	-
11	Turbidity(NTU)	3.31	2.92	22.50	21.50	9.88	3.17	16.99	6.7	2.78	3.35	5.28	13.18	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	48.00	52.0	46.0	20.0	24.0	30.0	36.0	38.0	14.0	40.0	50.0	50.0	-
14	Chlorides(mg/l)	8.5	25.490	35.490	8.0	7.0	8.5	12.49	12.5	10.5	12.49	10.49	23.0	-
15	COD(mg/l)	16.0	10.0	8.0	10.0	8.0	4.0	8.0	8.0	12.0	8.0	10.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	2.24	1.10	1.68	1.12	1.68	1.12	1.68	0.56	2.24	1.68	0.56	1.12	-
17	Ammonia (mg/l)	0.1	0.11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.06	-
18	Total Hardness(mg/l)	42	56.0	52.0	22.0	20.0	40.0	28.0	30.0	8.0	36.0	46.0	76.0	-
19	Calcium(mg/l)	10.4	11.20	12.83	4.01	4.8	8.82	10.42	6.4	2.4	8.02	12.02	11.2	-
20	Magnesium(mg/l)	3.80	6.8	4.860	2.9	1.9	4.37	0.486	3.4	0.5	3.89	15.94	11.7	-

21	Sulphate(mg/l)	2.58	3.3	12.45	5.6	4.4	3.78	2.013	BDL	3.5	4.73	5.68	10.1	-
22	Sodium(mg/l)	34.8	56.6	56.8	10.4	3.6	7.1	64.9	66.3	21.0	18.5	21.6	31.1	-
23	Total Dissolved Solids(mg/l)	88.0	84.0	80.0	36.0	33.0	755.0	65.0	49.0	23.0	63.0	188.0	114.0	-
24	Total Fixed Solids(mg/l)	53.0	28.0	48.0	13.0	11.0	453.0	39.0	31.0	8.0	37.0	122.0	68.0	-
25	Total Suspended Solids(mg/l)	12	11.0	37.0	43.0	22.0	6.0	8.0	8.0	6.0	7.0	13.0	17.0	-
26	Phosphate(mg/l)	BDL	0.02	0.025	0.03	0.03	BDL	BDL	BDL	BDL	BDL	0.04	0.02	-
27	Boron(mg/l)	1.85	BDL	0.665	BDL	0.007	0.006	BDL	BDL	BDL	BDL	0.511	0.9	-
28	Potassium(mg/l)	32.00	42.0	43.2	5.8	1.7	5.2	32.45	36.3	0.4	7.9	9.6	16.4	-
29	Flouride(mg/l)	BDL	0.2	BDL	BDL	0.3	BDL	BDL	BDL	BDL	0.5	BDL	BDL	-
30	SAR	13.03	18.85	19.10	5.6	2.0	2.76	27.79	29.95	17.47	7.58	7.66	9.19	-
31	Percent Sodium (%)	-	-	-	70.06	44.0	48.25	89.93	91.28	88.1	68.91	66.23	67.49	-
MAYEM LAKE AT MAYEM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	32	30	26	28	28	28	30	29	26	29	29	-
2	Dissolved Oxygen mg/l	7.8	6.9	7.5	7.5	7.0	6.4	6.0	6.0	6.7	7.3	7.2	7.5	-
3	pH	6.84	7.05	7.32	7.15	6.94	5.71	5.74	5.9	6.56	6.57	7.01	6.23	6-8.5
4	Conductivity(µs/cm)	52.9	57.30	131.70	40.0	35.47	1287.0	45.85	46.30	41.77	51.51	41.76	48.09	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	BDL	BDL	0.2	0.1	0.1	BDL	BDL	BDL	0.1	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.012	-
8	Total Coliform(MPN/100 ml)	1300	1400	1700	1300	1100	1100	1700	1400	5400	2400	1700	540	-
9	Fecal Coliform(MPN/100 ml)	790	700	790	780	700	790	700	680	790	790	940	350	-

10	Fecal Streptococci MPN/100ml	140	110	94	110	94	79	94	79	350	110	140	240	-
11	Turbidity(NTU)	4.39	4.95	4.83	4.85	3.59	1.58	1.88	3.46	2.56	2.63	3.12	4.93	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	24.0	24.0	1.12	14.00	18.0	20.0	22.0	20.0	16.0	18.0	20.0	20.0	-
14	Chloride mg/l	4.5	98.5	13.49	6.0	27.5	10.0	5.49	7.5	11.0	7.49	5.49	18.5	-
15	COD(mg/l)	14.00	8.0	4.0	10.0	6.0	12.0	8.0	8.0	10.0	6.0	6.0	10.0	-
16	Total Kjeldhal Nitrogen(mg/l)	1.12	1.700	0.56	1.12	2.24	1.68	0.56	0.56	1.68	0.56	1.12	1.68	-
17	Ammonia mg/l	BDL	BDL	BDL	BDL	0.10	0.09	BDL	BDL	BDL	BDL	BDL	0.11	-
18	Hardness(mg/l)	18.0	64.0	22.0	14.0	22.0	24.0	12.0	16.0	10.0	18.0	16.0	40.0	-
19	Calcium(mg/l)	4.01	6.4	6.41	4.0	4.0	4.01	4.0	3.2	1.6	4.0	3.21	10.4	-
20	Magnesium(mg/l)	1.90	11.6	1.458	1.0	2.9	3.4	0.486	BDL	1.5	BDL	7.97	3.4	-
21	Sulphate(mg/l)	BDL	2.4	5.03	0.75	4.0	6.59	1.392	BDL	3.3	2.79	2.02	18.0	-
22	Sodium(mg/l)	32.6	25.9	28.2	5.6	2.7	11.3	60.0	30.4	22.6	18.7	20.9	27.3	-
23	Total Dissolved Solids(mg/l)	35.0	32.0	74.0	25.0	20.0	797.0	26.0	27.0	24.0	33.0	23.0	30.0	-
24	Total Fixed Solids(mg/l)	21.0	10.0	44.0	9.0	7.0	478.0	15.0	18.0	9.0	18.0	14.0	18.0	-
25	Total Suspended Solid	17.00	13.0	13.0	15.0	7.0	3.0	3.0	7.0	6.0	9.0	7.0	9.0	-
26	Phosphate(mg/l)	BDL	0.02	BDL	BDL	0.02	BDL	BDL	0.02	BDL	BDL	BDL	0.02	-
27	Boron(mg/l)	1.3	0.5	0.794	BDL	0.012	0.006	BDL	BDL	BDL	BDL	0.355	1.6	Max 2mg/l
28	Potassium(mg/l)	29.20	23.0	20.0	2.2	0.7	6.7	30.2	15.6	0.7	7.1	13.5	16.2	-
29	Fluoride(mg/l)	BDL	BDL	0.346	BDL	BDL	0.3	BDL	BDL	BDL	0.4	BDL	BDL	-
30	SAR	18.9	8.62	14.22	3.55	1.5	5.87	40.06	19.04	18.27	10.48	13.02	10.39	Max 26.0
31	Percent Sodium (%)	-	-	-	61.03	32.9	70.84	95.26	90.02	88.4	81.26	86.98	75.89	-

CARAMBOLIM LAKE													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	29	29	28	27	27	29	30	30	29	30	-
2	Dissolved Oxygen mg/l	5.5	7.0	6.4	6.0	7.0	7.3	5.9	4.3	7.0	5.0	6.7	7.0	-
3	pH	7.40	6.80	7.21	7.78	7.11	7.36	7.13	7.42	7.46	7.50	7.67	7.62	6-8.5
4	Conductivity(µs/cm)	212.3	99.6	160.3	93.04	109.1	223.3	243.5	165.8	153.9	171.7	159.6	177.9	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.3	BDL	0.1	1.298	0.35	0.08	0.1	0.1	BDL	BDL	0.4	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.007	BDL	0.007	0.006	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	200	220	170	210	330	920	3500	5400	490	780	490	140	-
9	Fecal Coliform(MPN/100 ml)	140	130	110	170	230	540	1300	2400	230	450	330	94	-
10	Fecal Streptococci(MPN/100ml)	70	68	49	70	79	110	170	130	140	120	170	46	-
11	Turbidity(NTU)	8.5	1.3	6.68	9.10	4.18	4.71	5.15	3.42	4.21	4.85	4.43	5.72	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	82.0	68.0	46.0	30.0	24.0	46.0	44.0	46.0	46.0	40.0	38.0	38.0	-
14	Chloride mg/l	20.0	21.03	57.00	8.49	11.0	27.0	11.5	11.0	16.5	22.99	18.0	19.49	-
15	COD(mg/l)	6.0	12.0	10.0	4.0	8.0	8.0	4.0	6.0	6.0	6.0	8.0	8.0	-
16	Total Kjeldhal Nitrogen(mg/l)	2.2	2.80	1.68	0.56	2.80	1.17	1.12	1.68	0.56	0.56	1.68	0.56	-
17	Ammonia mg/l	0.1	0.02	BDL	0.095	0.17	0.10	0.08	BDL	BDL	BDL	0.05	BDL	-
18	Hardness(mg/l)	62.0	60.0	44.0	34.0	32.0	46.0	52.0	52.0	50.0	122.0	38.0	56.0	-
19	Calcium(mg/l)	22.4	17.64	15.20	10.42	8.8	14.4	14.43	16.0	15.2	20.04	15.23	20.04	-
20	Magnesium(mg/l)	BDL	3.88	1.5	1.944	2.4	2.4	3.9	2.9	2.9	17.50	0.5	BDL	-

21	Sulphate(mg/l)	4.2	5.99	1.0	7.45	4.3	15.8	BDL	7.2	5.0	6.73	5.5	12.18	-
22	Sodium(mg/l)	22.9	38.7	38.1	25.0	30.7	29.2	5.3	118.3	8.5	1.8	30.4	42.4	-
23	Total Dissolved Solids(mg/l)	133.0	67.0	103.0	52.0	69.0	136.0	146.0	99.0	92.0	109.0	106.0	104.0	-
24	Total Fixed Solids(mg/l)	44.0	40.0	62.0	31.0	28.0	46.0	86.0	40.0	57.0	65.0	35.0	62.0	-
25	Total Suspended Solid (mg/l)	24.00	6.0	10.0	18.0	9.0	12.0	13.0	6.0	10.0	5.0	9.0	7.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.046	0.03	BDL	BDL	0.011	0.02	0.04	BDL	BDL	-
27	Boron(mg/l)	0.3	2.12	0.20	BDL	0.009	0.014	0.017	BDL	BDL	0.00657	BDL	1.4	Max 2mg/l
28	Potassium(mg/l)	22.00	32.5	32.0	16.2	6.4	12.5	2.3	84.9	4.7	1.0	3.7	23.6	-
29	Fluoride(mg/l)	BDL	0.39	0.4	BDL	0.3	BDL	BDL	0.2	BDL	BDL	0.3	0.2	-
30	SAR	6.10	11.80	13.19	10.05	12.9	10.1	1.75	38.45	2.83	0.42	10.84	12.93	Max 26.0
31	Percent Sodium (%)	-	-	-	76.92	76.8	71.21	29.31	91.5	42.17	6.94	68.45	75.43	-
ANJUNEM LAKE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	28	28	31	29	28	28	26	28	26	28	27	28	-
2	Dissolved Oxygen mg/l	5.0	6.7	7.3	7.4	6.8	4.9	4.3	3.3	0.7	7.3	7.8	7.9	-
3	pH	6.56	6.87	6.93	7.44	6.59	6.24	6.59	6.55	6.31	7.16	6.5	7.79	6-8.5
4	Conductivity(µs/cm)	45.80	44.90	46.72	46.59	34.80	38.08	43.49	42.0	41.08	42.24	39.9	54.70	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.2	3.6	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	1.5	BDL	0.17	0.18	BDL	0.2	0.1	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	140	140	130	110	1100	920	2200	1700	1300	940	23	920	-
9	Fecal Coliform(MPN/100 ml)	70	79	78	49	490	350	1300	1100	780	490	13	540	-

10	Fecal Streptococci MPN/100ml	33.0	26	20	8	79	140	170	140	170	130	7	220	-
11	Turbidity(NTU)	1.38	2.79	0.60	2.10	4.95	2.90	2.37	2.26	1.04	1.39	2.3	3.80	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	24.0	32.0	56.0	20.0	1.6	22.0	18.0	18.0	24.0	24.0	16.0	18.0	-
14	Chloride mg/l	2.5	5.0	8.99	4.5	5.5	6.0	2.99	5.5	4.0	10.0	6.5	4.50	-
15	COD(mg/l) mg/l	10.0	10.0	8.0	4.0	6.0	8.0	BDL	18.0	18.0	6.0	8.0	18.0	-
16	Total Kjeldhal Nitrogen(mg/l)	1.1	1.680	1.681	1.12	1.68	0.56	0.56	1.68	0.6	0.56	0.56	0.56	-
17	Ammonia mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.06	0.10	BDL	0.1	BDL	BDL	-
18	Hardness(mg/l)	14.00	14.0	64.0	10.0	10.0	26.0	12.0	16.0	78.0	14.0	24.0	18.0	-
19	Calcium(mg/l)	3.2	4.01	4.81	2.4	3.2	3.2	2.4	4.8	8.0	3.2	4.0	2.40	-
20	Magnesium(mg/l)	BDL	1.0	12.636	1.0	BDL	4.4	BDL	1.0	14.1	BDL	3.4	2.92	-
21	Sulphate(mg/l)	BDL	1.3	3.713	1.5	BDL	BDL	2.28	3.0	3.9	3.3	2.4	2.85	-
22	Sodium(mg/l)	3.8	3.7	4.6	26.0	2.8	11.9	11.9	30.8	25.2	11.1	19.3	18.0	-
23	Total Dissolved Solids(mg/l)	27.0	30.0	30.0	31.0	22.0	23.0	28.0	25.0	25.0	25.0	26.0	34.0	-
24	Total Fixed Solids(mg/l)	11.0	18.0	18.0	10.0	9.0	10.0	19.0	10.0	10.0	17.0	16.0	22.0	-
25	Total Suspended Solid (mg/l)	8	9.0	2.0	9.0	6.0	4.0	6.0	5.0	4.0	4.0	4.0	5.0	-
26	Phosphate(mg/l)	BDL	0.05	BDL	0.06	BDL	BDL	BDL	0.05	0.06	BDL	BDL	0.021	-
27	Boron(mg/l)	BDL	0.95	0.201	BDL	0.006	0.017	BDL	BDL	BDL	BDL	1.0	0.51	Max 2mg/l
28	Potassium(mg/l)	3.2	3.1	4	14	2.1	10.2	10.2	18.9	20.0	10.5	1.1	2.6	-
29	Fluoride(mg/l)	BDL	0.5	BDL	0.2	0.2	BDL	0.06	BDL	0.1	0.8	0.2	BDL	-
30	SAR	2.49	2.3	1.56	20.0	2.1	6.11	8.62	18.1	7.6	4.24	10.03	11.04	Max 26.0
31	Percent Sodium (%)	-	-	-	92.2	57.0	74.5	85.33	89.58	67.2	61.19	73.35	79.47	-

BATIM LAKE													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	30	28	29	29	26	29	29	30	30	31	-
2	Dissolved Oxygen(mg/l)	1.4	5.1	7.6	4.0	3.0	4.5	1.4	1.8	4.3	4.1	3.0	1.7	-
3	pH	6.29	6.76	6.85	7.5	6.47	6.3	6.01	6.83	5.85	6.5	7.34	6.19	6-8.5
4	Conductivity(µs/cm)	123.4	149.50	79.66	72.59	61.63	1316.00	124.2	134.1	72.6	131.5	80.11	171.6	Max 2250 µs/cm
5	BOD(mg/l)	4.1	BDL	BDL	BDL	3.0	BDL	4.0	4.4	BDL	BDL	4.3	5.4	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.1	BDL	0.1	BDL	0.20	BDL	0.3	0.2	BDL	0.1	0.2	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.006	0.005	BDL	BDL	BDL	0.005	0.010	0.005	BDL	0.005	-
8	Total Coliform(MPN/100 ml)	1100	2100	1700	2100	3500	2400	3500	2400	2100	2700	2200	920	-
9	Fecal Coliform(MPN/100 ml)	700	1700	1100	1300	2800	1300	2200	1300	1300	1700	1300	350	-
10	Fecal Streptococci (MPN/100ml)	150	170	170	170	280	130	140	130	110	98	70	210	-
11	Turbidity(NTU)	16.51	40.20	6.30	8.65	6.0	4.02	7.09	2.23	14.64	15.0	13.9	47.5	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	46	36.0	18.0	18.0	28.0	24.0	24.0	14.0	22.0	24.0	20.0	30.0	-
14	Chlorides(mg/l)	4	25.00	6.49	12.0	7.49	20.0	18.49	27.5	13.50	28.0	10.5	27.99	-
15	COD(mg/l)	16	4.0	6.0	8.0	14.0	10.0	20.0	20.0	12.0	6.0	18.0	18.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	1.7	0.56	1.1	1.12	2.24	1.1	1.12	1.12	1.12	1.12	1.12	-
17	Ammonia (mg/l)	BDL	0.9	BDL	0.07	0.05	0.05	0.07	0.14	0.07	BDL	0.07	0.1	-
18	Total Hardness(mg/l)	1800	24.0	20.0	20.0	24.0	20.0	24.0	16.0	36.0	42.0	28.0	30.0	-
19	Calcium(mg/l)	80.16	3.2	3.21	4.0	6.41	4.0	4.8	4.0	11.22	6.4	5.6	4.80	-
20	Magnesium(mg/l)	388.8	3.9	2.916	2.4	1.9	10.0	2.9	BDL	BDL	6.32	3.4	2.43	-

21	Sulphate(mg/l)	20.79	11.2	1.63	3.8	3.47	12.3	5.7	9.2	5.46	15.1	4.5	10.58	-
22	Sodium(mg/l)	900	897.0	899.5	22.6	37.1	19.0	30.4	10.2	39.1	4.1	28.9	47.2	-
23	Total Dissolved Solids(mg/l)	78	98.0	44.0	42.0	42.0	824.0	75.0	86.0	45.0	86.0	48.0	97.0	-
24	Total Fixed Solids(mg/l)	46	33.0	26.0	14.0	25.0	273.0	30.0	52.0	26.0	51.0	19.0	58.0	-
25	Total Suspended Solids(mg/l)	8	20.0	10.0	13.0	10.0	12.0	12.0	5.0	17.0	16.0	18.0	55.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.04	0.02	BDL	BDL	BDL	BDL	BDL	0.02	0.03	-
27	Boron(mg/l)	0.93	0.3	0.582	BDL	0.011	0.030	0.007	BDL	BDL	BDL	BDL	0.5	Max 2mg/l
28	Potassium(mg/l)	700	691.0	680.2	9.1	11.7	9.9	26.6	5.1	15.3	3.6	20.1	17.4	-
29	Flouride(mg/l)	1.29	BDL	1.054	BDL	0.411	BDL	BDL	BDL	0.2	BDL	0.3	0.2	-
30	SAR	58.77	476.53	513.96	12.6	18.02	10.59	15.5	6.2	15.24	98.09	13.6	24.82	Max 26.0
31	Percent Sodium (%)	-	-	-	83.1	85.45	81.8	88.1	73.7	80.52	63.95	84.5	89.93	-
RIVER KHANDEPAR, OPA, PONDA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C		29	27	29	28	29	29	30	29	27	30	31	-
2	Dissolved Oxygen(mg/l)	7.5	6.5	6.9	6.9	7.2	6.7	7.4	4.9	7.1	7.4	7.9	7.9	4 mg/l or more
3	pH	7.46	7.48	6.97	6.45	7.83	7.30	7.19	6.41	7.13	6.90	7.18	6.67	6-9
4	Conductivity(µs/cm)	118.2	108.6	70.43	900	41.8	1346.0	1365	89.11	99.84	127.4	81.01	134.2	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.1	BDL	0.11	BDL	0.377	0.146	BDL	0.168	0.1	BDL	1,559	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.01	0.01	BDL	BDL	0.0095	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	790	700	790	700	790	940	5400	1100	1300	700	3300	540	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	490	330	330	330	330	490	2400	680	790	460	1300	350	-

10	Fecal Streptococci (MPN/100ml)	170	150	170	210	170	210	470	210	220	210	170	130	-
11	Turbidity(NTU)	3.52	2.82	7.51	7.78	15.15	3.85	24.1	5.87	1.78	2.70	2.18	2.79	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	44.0	58.0	26.0	24.0	16.0	38.0	12.0	22.0	34.0	44.0	22.0	22.0	-
14	Chlorides(mg/l)	16.0	6.00	6.35	649.80	11.50	7.50	5.50	14.99	16.49	21.5	7.99	15.49	-
15	COD(mg/l)	6.0	10.0	2.0	8.0	8.0	6.0	8.0	8.0	8.0	6.0	4.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.70	0.56	1.12	2.8	1.12	1.12	1.68	1.68	1.12	0.56	2.24	-
17	Ammonia (mg/l)	BDL	0.02	0.08	BDL	BDL	0.07	0.078	0.062	0.55	0.07	BDL	BDL	-
18	Total Hardness(mg/l)	40.0	44.0	32.0	104.0	22.0	22.0	16.0	30.0	32.0	54.0	36.0	42.0	-
19	Calcium(mg/l)	9.6	12.00	8.02	11.22	3.2	4.81	2.40	6.41	5.61	11.2	7.21	8.02	-
20	Magnesium(mg/l)	3.90	3.4	2.91	18.47	3.40	2.43	2.43	3.4	4.37	6.3	17.93	5.35	-
21	Sulphate(mg/l)	BDL	2.1	3.34	36.8	3.1	2.95	4.98	1.48	3.51	3.3	3.56	3.97	-
22	Sodium(mg/l)	9.2	7.6	7.6	11.3	28	37.0	37.0	60.5	15.3	26.6	21.1	42.6	-
23	Total Dissolved Solids(mg/l)	71.0	67.0	47.0	504.0	27.0	767.0	712.0	49.0	63.0	82.0	45.0	79.0	-
24	Total Fixed Solids(mg/l)	55.0	40.0	28.0	302.0	11.0	460.0	441.0	29.0	37.0	49.0	27.0	56.0	-
25	Total Suspended Solids(mg/l)	7.0	6.0	32.0	3.0	28.0	5.0	3.0	12.0	2.0	3.0	8.0	3.0	-
26	Phosphate(mg/l)	BDL	0.08	0.03	0.07	0.03	BDL	0.121	BDL	0.04	0.02	0.02	BDL	-
27	Boron(mg/l)	0.97	0.4	0.74	0.04	0.002	0.006	0.006	BDL	BDL	0.00912	0.377	0.37	-
28	Potassium(mg/l)	7.3	5.1	5.1	10	10.1	18.1	18.1	30.1	13.2	4.6	12.1	8.8	-
29	Flouride(mg/l)	BDL	0.20	0.12	BDL	0.4	BDL	0.26	0.580	BDL	0.5	BDL	BDL	-
30	SAR	3.5	2.73	3.25	2.93	15.4	19.45	23.87	27.32	6.85	8.98	8.76	16.51	-
31	Percent Sodium (%)	-	-	-	41.77	85.9	88.39	92.92	90.23	74.06	64.01	74.09	79.36	-

RIVER KHANDEPAR AT CODLI													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	27	29	28	29	29	30	29	28	30	31	-
2	Dissolved Oxygen(mg/l)	6.9	5.3	7.5	7.1	7.1	7.3	7.1	7.1	6.9	7.7	8.7	7.1	4 mg/l or more
3	pH	7.19	6.73	6.97	6.63	7.42	7.9	7.05	6.46	6.89	6.84	6.95	6.96	6-9
4	Conductivity(µs/cm)	81.56	92.8	67.45	48.82	42.79	1379.0	1388	64.16	64.33	60.9	149.2	110.5	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.12	0.2	BDL	0.13	0.4	BDL	BDL	BDL	0.165	BDL	BDL	0.235	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.005	0.02	BDL	0.012	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	1100	790	940	1100	1300	1100	2300	1300	1100	1200	1300	920	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	790	490	490	450	330	450	1300	450	450	680	780	430	-
10	Fecal Streptococci (MPN/100ml)	210	170	170	200	140	200	230	170	140	130	140	210	-
11	Turbidity(NTU)	2.68	BDL	4.64	10.34	10.16	4.43	3.07	4.58	2.94	1.30	2.43	1.89	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	14.0	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	40.0	46.0	30.0	24.0	18.0	42.0	16.0	28.0	18.0	50.0	38.0	32.0	-
14	Chlorides(mg/l)	6.5	7.50	5.38	15	25.5	14.0	2.99	12.49	5.49	7.5	27.5	8.99	-
15	COD(mg/l)	6.0	10.0	4.0	6.0	8.0	8.0	4.0	6.0	8.0	6.0	6.0	BDL	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.20	0.56	0.56	2.8	0.56	0.560	1.12	2.24	0.56	1.12	1.68	-
17	Ammonia (mg/l)	BDL	0.03	0.06	0.12	BDL	BDL	0.13	0.062	BDL	BDL	BDL	0.10	-
18	Total Hardness(mg/l)	32.0	42.0	32.0	56.0	22.0	16.0	16.0	24.0	56.0	50.0	98.0	34.0	-
19	Calcium(mg/l)	7.20	8.80	6.41	6.41	4.00	3.2	3.21	4.8	14.43	6.4	24.05	7.21	-
20	Magnesium(mg/l)	3.4	4.9	3.88	9.72	2.90	2	BDL	2.92	4.86	8.3	37.90	3.89	-

21	Sulphate(mg/l)	BDL	2	3.51	5.16	3.00	5.3	4.72	2.32	2.57	BDL	4.51	2.66	-
22	Sodium(mg/l)	3.2	9.2	9.2	8.0	24.2	25.4	25.4	60.5	22.1	21.0	14.4	41.2	-
23	Total Dissolved Solids(mg/l)	52.0	59.0	46.0	26.0	27.0	883.0	802.0	35.0	41.0	39.0	89.0	66.0	-
24	Total Fixed Solids(mg/l)	38.0	35.0	28.0	16.0	11.0	530.0	561.0	21.0	24.0	23.0	53.0	44.0	-
25	Total Suspended Solids(mg/l)	5.0	5.0	28.0	3.0	17.0	10.0	8.0	16.0	3.0	3.0	6.0	2.0	-
26	Phosphate(mg/l)	BDL	6.03	0.02	0.09	0.03	BDL	0.024	BDL	BDL	BDL	0.020	BDL	-
27	Boron(mg/l)	1.03	0.2	0.80	BDL	0.01	0.011	BDL	BDL	BDL	BDL	0.332	0.221	-
28	Potassium(mg/l)	1.3	6.9	6.9	7.3	11.2	7.0	7.0	38.3	15.0	3.5	12.8	10.1	-
29	Flouride(mg/l)	0.5	0.30	0.259	BDL	0.400	BDL	BDL	0.482	BDL	0.2	0.266	BDL	-
30	SAR	1.38	3.13	4.05	2.82	13.00	15.8	15.83	30.79	7.12	7.75	3.53	17.53	-
31	Percent Sodium (%)	-	-	-	48.68	83.20	86.3	86.28	92.75	65.79	62.55	44.97	82.21	-
RIVER KUSHAWATI NEAR BUND AT KEVONA, RIVONA, SANGUEM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	30	29	29	28	30	30	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	6.3	6.6	6.3	7.1	7.4	7.4	5.4	4.2	7.1	6.4	7.9	7.7	4 mg/l or more
3	pH	7.23	7.2	7.56	7.48	6.63	6.23	7.13	6.87	7.24	6.78	7.0	7.65	6-9
4	Conductivity(µs/cm)	190.05	196.20	187.7	58.6	52.8	57.0	62	42.46	45.74	104.8	62.3	66.55	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.1	0.147	0.1	0.16	BDL	BDL	BDL	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.007	BDL	0.005	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	330	2200	3300	3300	1400	3300	1100	2300	2100	2300	2100	210	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	230	1700	1300	1300	790	2300	680	1300	1400	1300	1400	130	-

10	Fecal Streptococci (MPN/100ml)	94	110	170	140	93	220	110	170	110	230	260	140	-
11	Turbidity(NTU)	BDL	BDL	2.54	4.58	2.3	6.34	1.30	3.19	2.60	3.98	2.7	1.08	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	82.0	110.0	94.0	56.0	24.0	24.0	14.0	14.0	18.0	42	28.0	18.0	-
14	Chlorides(mg/l)	3.50	3.5	6.0	10.0	5.0	6.0	10.0	7.0	6.5	6.0	8.0	5.5	-
15	COD(mg/l)	6.0	4.0	78	8	6	12	7.99	8.0	8.0	6.0	8.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	0.56	2.802	2.24	0.56	1.12	0.56	1.12	1.68	0.56	1.12	2.24	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	0.07	0.135	BDL	BDL	BDL	0.05	BDL	-
18	Total Hardness(mg/l)	84.0	94.0	88.0	24.0	16.0	20.0	14.0	14.0	16.0	52	20.0	24.0	-
19	Calcium(mg/l)	16.83	20.8	18.4	8.0	4.0	4.8	3.21	2.40	3.20	9.62	4.0	4.08	-
20	Magnesium(mg/l)	10.21	10.2	10.2	BDL	BDL	BDL	BDL	BDL	1.9	6.80	2.4	3.40	-
21	Sulphate(mg/l)	BDL	BDL	1.3	4.4	BDL	4.7	3,079	BDL	BDL	1.51	3.9	3.07	-
22	Sodium(mg/l)	3.5	10.8	10.9	7.3	11.8	9.8	40.1	2.0	45.2	27.8	24.1	38.2	-
23	Total Dissolved Solids(mg/l)	112.0	115.0	125.0	35.0	34.0	36.0	34.0	27.0	27.0	67	40.0	40.0	-
24	Total Fixed Solids(mg/l)	69.0	70.0	42.0	21.0	20.0	15.0	20.0	16.0	19.0	49	24.0	27.0	-
25	Total Suspended Solids(mg/l)	4.0	3.0	4.0	2.0	9.0	9.0	6.0	4.0	8.0	6.0	5.0	2.0	-
26	Phosphate(mg/l)	BDL	BDL	0.02	BDL	0.02	0.14	0.02	0.02	BDL	BDL	0.02	BDL	-
27	Boron(mg/l)	1.5	1.6	0.3	BDL	0.0	BDL	BDL	0.018	BDL	BDL	0.5	0.24	-
28	Potassium(mg/l)	1.6	4.8	4.9	4.8	4.9	1.9	20.05	1.5	7.0	2.5	6.4	12.5	-
29	Flouride(mg/l)	0.6	BDL	BDL	BDL	BDL	BDL	0.250	BDL	BDL	BDL	0.3	1.44	-
30	SAR	0.95	2.74	2.88	3.44	7.10	5.30	26.25	1.36	28.17	9.72	13.43	19.75	-
31	Peercent Sodium (%)	-	-	-	57.37	75.20	63.40	92.80	44.64	91.0	64.85	82.57	87.14	-

RIVER TALPONA AT CANACONA													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	28	28	28	28	29	30	30	26	29	29	-
2	Dissolved Oxygen(mg/l)	5.6	6.0	5.1	7.4	7	5.5	6.7	6.8	7.0	7.4	7.6	7.5	4 mg/l or more
3	pH	6.93	7.37	8.84	7.48	8.00	7.69	7.84	6.91	7.08	7.08	8.6	7.8	6-9
4	Conductivity(µs/cm)	74.0	107	71.81	66.03	80.65	1590.0	77	58.88	75.50	78.48	156.0	101.6	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	0.2	BDL	0.1	0.1	BDL	0.5	0.34	0.1	BDL	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.051	0.006	BDL	0.050	BDL	0.009	0.011	0.006	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	1400	2200	2300	3300	2300	2400	2000	1700	2800	2200	2400	540	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	680	1700	1300	780	780	1100	1400	1400	1700	1300	1400	350	-
10	Fecal Streptococci (MPN/100ml)	130	260	140	210	200	220	170	210	110	170	170	130	-
11	Turbidity(NTU)	4.19	4.67	2.34	6.73	8.59	1.58	5.92	2.66	2.37	3.08	1.6	1.7	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	28.0	32	32.0	18.0	20.0	22.0	22.0	22.0	16.0	24.0	38.0	32.0	-
14	Chlorides(mg/l)	36.5	10.0	624.81	10.5	12.4	3.99	9.5	5.4	7.5	8.5	32.5	21.5	-
15	COD(mg/l)	8.0	8.0	4.0	4.0	6.0	8.0	8.0	6.0	8.0	10.0	8.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	2.2	1.12	0.56	2.24	0.56	1.12	0.56	0.56	3.92	1.12	1.12	-
17	Ammonia (mg/l)	BDL	0.39	BDL	BDL	BDL	BDL	0.06	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	13.0	24.0	78	22	18	26.0	36.0	20.0	20.0	28.0	24.0	34.0	-
19	Calcium(mg/l)	3.2	4.8	11.22	3.20	4.00	6.41	5.6	4.0	4.81	4.01	5.6	5.6	-
20	Magnesium(mg/l)	1.2	2.9	12.15	3.40	1.90	2.43	5.4	2.4	BDL	4.37	2.4	4.9	-

21	Sulphate(mg/l)	3.3	4.7	4.69	5.50	6.00	3.52	4.5	2.4	BDL	5.99	3.5	6.1	-
22	Sodium(mg/l)	17.8	32.1	32.1	8.8	61.0	3.4	48.6	7.2	70.4	2.7	48.6	68.6	-
23	Total Dissolved Solids(mg/l)	48.0	61.0	44.0	42.0	43.0	1008.0	49.0	36.0	44.0	45.0	100.0	65.0	-
24	Total Fixed Solids(mg/l)	18.0	21.0	26.0	25.0	15.3	603.0	29.0	15.0	31.0	31.0	60.0	39.0	-
25	Total Suspended Solids(mg/l)	50.0	14.0	2.0	12.0	21.0	5.0	12.0	5.0	8.0	4.0	3.0	4.0	-
26	Phosphate(mg/l)	BDL	BDL	0.032	0.030	0.030	BDL	0.20	0.07	BDL	0.04	BDL	0.02	-
27	Boron(mg/l)	BDL	0.1	0.247	0.03	0.012	0.08	0.027	0.005	BDL	0.00065	0.5	BDL	-
28	Potassium(mg/l)	2.6	29.3	29.3	8.2	36.0	1.7	10.3	5.3	37.2	9.7	21.2	8.7	-
29	Flouride(mg/l)	1.8	BDL	0.206	BDL	BDL	1.1	0.2	BDL	BDL	BDL	0.4	0.43	-
30	SAR	11.97	16.34	9.39	4.8	35.4	1.62	20.8	4.0	38.43	1.32	24.24	29.98	-
31	Percent Sodium (%)	-	-	-	72.0	94.2	36.59	84.3	66.0	94.13	59.67	89.67	88.07	-
CREEK AT DANDO MOLLO, VELSAO, MORMUGAO														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	28	28	28	28	29	29	30	30	31	-
2	Dissolved Oxygen(mg/l)	7.2	5.8	7.2	6.1	6.5	6.5	6.1	5.7	4.8	6.5	7.4	2.1	4 mg/l or more
3	pH	9.24	7.21	8.74	7.88	7.88	7.82	7.22	7.39	7.30	7.69	7.2	7.20	6-9
4	Conductivity(µs/cm)	22630	31510	59650.0	472.0	225.0	50940.0	9520	3964.0	9130.0	10220.0	20310.0	15290.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	6.0	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	7.27	BDL	1.7	0.728	0.5	1.2	0.5	4.3	3.1	2.6	1.42	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.204	0.06	0.013	0.184	0.057	0.01	0.113	0.108	0.039	0.04	0.062	0.03	-
8	Total Coliform(MPN/100 ml)	3300	4900	350×10^2	13000	7900	4900	4600	3500	4600	5400	2400	430	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	2300	2300	130×10^2	7900	3300	3300	3300	2400	3300	2400	1700	130	-

10	Fecal Streptococci (MPN/100ml)	220	240	330	230	460	320	330	280	240	110	210	220	-
11	Turbidity(NTU)	5.12	6.36	8.54	8.08	19.6	3.22	6.2	5.76	4.66	6.39	9.4	6.43	-
12	Phenolphthalein Alkalinity(mg/l)	10.0	BDL	6.0	BDL	BDL	10.0	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	58	84	104	40	48	86.0	64.0	50.0	48.0	48.0	60.0	112.0	-
14	Chlorides(mg/l)	6248.1	6237.4	17978.46	106.00	17.00	17494.6	4098.73	1399.6	3548.9	3448.9	11246.5	5998.1	-
15	COD(mg/l)	-	-	-	10	6	-	-	8.0	-		-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	3.4	3.92	1.68	1.12	1.12	1.68	2.8	1.68	1.68	1.68	1.68	0.56	-
17	Ammonia (mg/l)	1.69	0.47	0.186	0.240	0.490	0.26	0.83	0.40	0.13	0.15	0.37	0.32	-
18	Total Hardness(mg/l)	3400.0	1960.0	6800.0	90.0	56.0	6200.0	640.0	480.0	1080.0	1040.0	3800.0	3600.0	-
19	Calcium(mg/l)	320.6	168.34	561.12	18.40	19.24	641.30	88.18	64.1	128.3	216.4	400.8	400.8	-
20	Magnesium(mg/l)	631.8	374.22	1312.2	10.7	BDL	1117.8	102.1	77.8	184.7	121.5	680.4	631.8	-
21	Sulphate(mg/l)	1806.7	804.05	1834.98	31.90	25.20	2190.30	115.48	618.1	104.7	538.3	640.0	508.5	-
22	Sodium(mg/l)	1800.0	10575.0	10575.0	342.0	14.8	6400.0	1375.0	2790.0	257.2	766.0	8725.0	8335.2	-
23	Total Dissolved Solids(mg/l)	15059.0	21111.0	40562.0	278.0	144.0	32602.0	5445.0	2537.0	5843.0	6234.0	12998.0	8562.0	-
24	Total Fixed Solids(mg/l)	5488.0	12667.0	24337.0	194.0	86.0	19561.0	3265.0	1522.0	3506.0	3865.0	7799.0	5137.0	-
25	Total Suspended Solids(mg/l)	69.0	11.0	28.0	20.0	4.0	6.0	8.0	9.0	7.0	14.0	7.0	14.0	-
26	Phosphate(mg/l)	0.68	0.14	0.145	0.070	0.104	0.07	0.15	0.08	0.06	0.04	0.08	0.16	-
27	Boron(mg/l)	0.9	1.6	0.77	0.02	0.04	3,055	0.365	BDL	0.714	0.633	1.8	0.258	-
28	Potassium(mg/l)	475.0	8075.0	8075.0	145.0	10.6	2800.0	675.0	2290.0	64.0	392.0	500.0	4167.6	-
29	Flouride(mg/l)	1.1	0.755	1.195	BDL	BDL	1.0	0.4	0.1	0.6	0.9	1.0	0.967	-
30	SAR	82.5	642.05	345.53	89.67	4.55	215.8	140.97	331.24	20.56	58.93	375.26	366.83	-
31	Percent Sodium (%)	-	-	-	94.4	54.53	84.0	91.51	97.28	50.65	77.41	89.51	92.37	-

SELAULIM RESERVOIR AT SELAULIM, SANGUEM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	30	30	29	28	28	30	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	7.4	8.3	8.3	7.5	7.9	7.8	6.4	7.7	7.3	7.4	8.0	7.3	4 mg/l or more
3	pH	7.92	7.34	7.8	7.37	7.02	6.6	7.23	7.52	7.20	7.05	7.5	7.74	6-9
4	Conductivity(µs/cm)	67.26	55	57.77	49.21	38.90	53.98	57	48.39	51.98	43.83	61.6	46.19	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.2	0.4	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.009	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	BDL	BDL	BDL	BDL	0.6	BDL	BDL	BDL	<1.8	49	<1.8	120	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	4.5	4.5	23	49	23	49	7.8	11	<1.8	33	<1.8	70	-
10	Fecal Streptococci (MPN/100ml)	<1.8	<1.8	2.0	22.0	<1.8	6.8	<1.8	<1.8	<1.8	21	<1.8	84	-
11	Turbidity(NTU)	BDL	1.64	2.56	3.02	1.30	2.91	1.14	1.27	1.36	1.17	1.6	0.59	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	20.0	22	26.0	28.0	20.0	18.0	14.0	22.0	16.0	16.0	26.0	16.0	-
14	Chlorides(mg/l)	10.0	5.5	4	6	4.5	5.0	4.0	6.50	6.5	3.0	8.0	2.50	-
15	COD(mg/l)	4.0	8.0	7	8	4	6.0	9.99	10.0	12.0	6.0	4.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.68	3.923	1.68	1.12	1.12	1.12	0.56	2.24	0.56	1.12	1.12	-
17	Ammonia (mg/l)	BDL	0.07	0.05	0.12	0.05	0.03	0.058	0.11	BDL	BDL	0.06	BDL	-
18	Total Hardness(mg/l)	22.0	24.0	24.0	20.0	24.0	16.0	14.0	24.0	22.0	24.0	20.0	18.0	-
19	Calcium(mg/l)	5.6	4	4.8	4.8	4	4.0	3.21	3.21	4.8	4.01	5.6	3.21	-
20	Magnesium(mg/l)	BDL	3.40	2.9	1.9	3.4	BDL	BDL	3.89	2.9	3.40	1.5	2.43	-

21	Sulphate(mg/l)	BDL	4.06	2.80	53.10	3.30	3.90	BDL	BDL	BDL	1.72	3.3	BDL	-
22	Sodium(mg/l)	5.6	19.7	19.8	19.4	15.4	2.5	43.8	2.3	46.2	35.5	24.8	37.1	-
23	Total Dissolved Solids(mg/l)	43.0	32.0	38.0	32.0	25.0	34.0	31.0	30.0	34.0	27.0	39.0	33.0	-
24	Total Fixed Solids(mg/l)	27.0	21.0	13.0	11.0	15.0	14.0	18.0	18.0	11.0	17.0	23.0	22.0	-
25	Total Suspended Solids(mg/l)	3.0	6.0	5.0	9.0	6.0	3.0	5.0	2.0	14.0	2.0	3.0	3.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.02	0.02	0.15	0.02	0.02	BDL	BDL	0.02	BDL	-
27	Boron(mg/l)	0.96	1.8	0.2	BDL	0.005	BDL	0.050	0.002	BDL	BDL	0.5	BDL	-
28	Potassium(mg/l)	1.9	7.9	7.7	7.5	8.0	1.4	21.9	1.8	38.2	2.8	6.3	12.7	-
29	Flouride(mg/l)	BDL	0.3	BDL	BDL	0.2	BDL	BDL	BDL	BDL	BDL	0.2	BDL	-
30	SAR	2.89	10.24	10.1	10.6	8.0	1.5	28.67	1.22	23.51	18.49	13.19	22.08	-
31	Percent Sodium (%)	-	-	-	79.90	76.0	41.6	93.37	36.61	91.6	83.79	81.48	89.27	-
RAITOLLEM LAKE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class E river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	28	28	28	28	29	29	30	29	29	-
2	Dissolved Oxygen(mg/l)	5.1	4.5	6.7	6.2	6.2	6.0	4.8	4.0	4.6	6.1	7.3	6.8	-
3	pH	6.87	6.62	6.93	8.28	7.64	6.80	6.74	6.95	6.93	7.02	7.19	7.26	6-8.5
4	Conductivity(µs/cm)	218.4	336	131.6	105.7	83.5	112.5	110	115.8	112.2	121.0	124.70	147.5	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.8	BDL	BDL	BDL	BDL	2.7	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.4	BDL	0.7	0.2	0.2	0.05	0.1	0.1	0.4	BDL	BDL	0.5	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.006	0.008	0.043	0.016	0.008	BDL	BDL	BDL	0.006	BDL	0.01	BDL	-
8	Total Coliform(MPN/100 ml)	1300	1300	940	4900	2200	5400	1700	4600	1700	2800	3500	240	-
9	Fecal Coliform (MPN/100ml)	790	780	490	2300	1300	2400	780	3300	790	1400	1300	170	-

10	Fecal Streptococci (MPN/100ml)	210	170	140	220	110	79	130	130	240	260	140	220	-
11	Turbidity(NTU)	8.16	77.1	78.70	6.72	3.72	2.77	2.87	6.86	2.31	5.01	6.22	21.0	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.0	-
13	Total Alkalinity(mg/l)	40.0	18	18.0	28.0	26.0	34.0	32.0	28.0	32.0	38.0	28.0	24.0	-
14	Chlorides(mg/l)	16.0	62.6	14.9	6.0	8.0	10.0	11.0	11.0	14.5	12.99	18.99	14.5	-
15	COD(mg/l)	8.0	10.0	2.0	4.0	10.0	8.0	10.0	12.0	10.0	18.0	4.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	2.8	2.24	1.68	1.12	1.12	1.12	0.56	1.12	2.24	1.12	0.56	2.2	-
17	Ammonia (mg/l)	0.05	2.25	0.4	0.1	0.1	0.07	BDL	0.09	0.06	0.09	BDL	0.07	-
18	Total Hardness(mg/l)	40.0	48.0	34.0	34.0	34.0	30.0	34.0	40.0	36.0	42.0	52.0	36.0	-
19	Calcium(mg/l)	5.6	9.62	5.6	6.4	6.4	8.0	8.0	8.8	5.6	7.21	12.82	8.0	-
20	Magnesium(mg/l)	6.3	5.83	4.9	4.4	4.4	2.4	3.4	4.4	5.3	5.83	4.86	3.9	-
21	Sulphate(mg/l)	8.4	41.24	37.0	11.0	6.3	7.2	7.6	2.9	2.9	2.22	9.01	9.1	-
22	Sodium(mg/l)	15.3	50.9	50.9	14.1	35.6	24.6	42.1	21.8	24.9	2.6	23.70	53.0	-
23	Total Dissolved Solids(mg/l)	133.0	225.0	86.0	68.0	52.0	64.0	66.0	68.0	69.0	71.0	82.0	98.0	-
24	Total Fixed Solids(mg/l)	55.0	135.0	29.0	41.0	30.0	22.0	40.0	22.0	29.0	51.0	49.0	32.0	-
25	Total Suspended Solids(mg/l)	14.0	44.0	129.0	10.0	9.0	7.0	8.0	13.0	5.0	27.0	7.0	16.0	-
26	Phosphate(mg/l)	BDL	0.035	0.14	0.02	BDL	BDL	BDL	0.18	0.03	BDL	0.02	BDL	-
27	Boron(mg/l)	BDL	2.0	0.1	BDL	0.0	0.045	1,378	BDL	BDL	0.00382	1.16	0.3	Max 2mg/l
28	Potassium(mg/l)	14.7	23.8	23.5	13.2	16.8	9.6	36.2	10.6	3.5	7.5	13.10	6.6	-
29	Flouride(mg/l)	0.2	0.3	BDL	0.3	0.2	BDL	0.2	0.9	0.2	0.37	BDL	BDL	-
30	SAR	6.3	18.31	22.23	3.7	15.33	10.8	17.56	8.49	10.64	1.02	7.97	21.7	Max 26.0
31	Percent Sodium (%)	-	-	-	71.7	82.94	76.6	87.2	71.1	72.2	43.65	67.55	83.40	-

SAIPEM LAKE, NAVELIM													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class E river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	sample was not collected as it was DRY	sample was not collected as it was DRY	28	27	28	29	28	30	29	30	29	sample was not collected as it was DRY	-
2	Dissolved Oxygen(mg/l)			2.5	4.5	3.2	5.2	2.9	1.9	1.2	1.6	BDL		-
3	pH			6.88	8	7.76	6.86	6.65	6.85	6.85	6.81	6.53		6-8.5
4	Conductivity(µs/cm)			367.9	157.3	206.2	222.4	212	280.3	275.8	252.7	239.50		Max 2250 µs/cm
5	BOD(mg/l)			3.2	BDL	5.8	BDL	6.0	5.8	5.4	5.75	4.8		-
6	Nitrate Nitrogen as NO_3-N(mg/l)			1.0	0.9	0.7	0.35	3.2	BDL	0.1	0.38	BDL		-
7	Nitrite Nitrogen as NO_2-N mg/l			0.072	0.063	0.095	0.051	0.090	BDL	0.006	0.07	0.01		-
8	Total Coliform(MPN/100 ml)			700	5400	3500	9200	$110X10^2$	$79X10^2$	5400	3500	5400		-
9	Fecal Coliform(MPN/100 ml)			460	2400	1700	3500	$33X10^2$	$49X10^2$	2400	2200	2400		-
10	Fecal Streptococci (MPN/100ml)			94	280	170	220	270	330	220	230	240		-
11	Turbidity(NTU)			8.48	13.68	8.36	7.15	7.02	9.53	8.08	4.83	6.71		-
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		-
13	Total Alkalinity(mg/l)			84	42	74	62.0	54.0	80.0	68.0	68.0	56.0		-
14	Chlorides(mg/l)			33.5	9.5	16.0	16.0	14.5	25.99	36.5	27.99	27.49		-
15	COD(mg/l)			20.0	6.0	18.0	8.0	20.0	18.0	18.0	12.0	16.0		-
16	Total Kjeldahl Nitrogen(mg/l)			2.24	1.12	2.24	0.56	1.12	1.68	1.68	1.68	1.12		-
17	Ammonia (mg/l)			1.3	0.06	0.25	0.24	0.54	0.10	0.92	0.72	BDL		-
18	Total Hardness(mg/l)			108.0	60.0	70.0	56.0	70.0	74.0	66.0	68.0	74.0		-
19	Calcium(mg/l)			32.8	12.8	22.4	14.4	19.2	20.0	18.4	18.44	18.44		-
20	Magnesium(mg/l)			6.3	6.8	3.4	4.9	5.3	5.8	4.8	5.35	6.80		-

21	Sulphate(mg/l)			45.4	12.8	13.3	12.1	22.9	2.5	9.6	4.66	20.92	-
22	Sodium(mg/l)			285.0	8.6	40.9	27.1	59.8	30.9	18.3	10.1	16.90	-
23	Total Dissolved Solids(mg/l)			245.0	101.0	119.0	119.0	72.0	159.0	162.0	152.0	153.0	-
24	Total Fixed Solids(mg/l)			82.0	61.0	71.0	40.0	44.0	54.0	112.0	110.0	91.0	-
25	Total Suspended Solids(mg/l)			17.0	16.0	13.0	15.0	10.0	18.0	19.0	16.0	8.0	-
26	Phosphate(mg/l)			0.14	0.06	0.06	0.02	0.042	0.18	0.2	0.3	0.04	-
27	Boron(mg/l)			0.2	BDL	0.0	0.016	BDL	BDL	BDL	0.01155	1.24	Max 2mg/l
28	Potassium(mg/l)			27	3.9	32.8	10.5	56.3	11.0	9.1	5.9	12.90	-
29	Flouride(mg/l)			0.4	0.3	0.2	0.1	0.7	0.2	BDL	BDL	BDL	-
30	SAR			64.39	37.80	11.38	8.7	17.60	8.59	5.37	2.93	4.76	Max 26.0
31	Percent Sodium (%)			-	38.90	74.04	66.1	82.5	61.8	54.15	40.21	54.14	-

CURTORIM LAKE, CURTORIM

Sr. No	Parameters	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Limit for class E river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	28	28	28	27	29	29	29	29	29	29	-
2	Dissolved Oxygen(mg/l)	4.2	8.1	6.5	7.8	6.4	5.7	3.4	3.2	4.0	5.1	5.7	7.1	-
3	pH	7.14	6.91	6.22	8.31	7.81	6.70	6.60	6.75	7.93	7.08	6.87	7.22	6-8.5
4	Conductivity(µs/cm)	209.3	297	85.21	56.10	69.82	84.84	100	117.1	126.9	126.7	143.30	141.4	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.2	BDL	4.2	4.0	BDL	2.8	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.4	BDL	0.6	0.3	0.1	0.09	0.3	0.1	0.2	0.1	BDL	0.5	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.011	0.014	0.016	0.013	0.009	BDL	0.006	BDL	0.006	0.005	0.01	BDL	-
8	Total Coliform(MPN/100 ml)	680	330	220	2800	2600	2800	4900	4600	230	260	5400	350	-
9	Fecal Coliform(MPN/100 ml)	450	230	130	2200	2200	1700	2300	2300	130	170	3500	130	-

10	Fecal Streptococci (MPN/100ml)	150	140	94	210	330	170	270	270	110	79	110	47	-
11	Turbidity(NTU)	7.52	30.3	3.61	30.9	25.4	18.07	2.87	7.14	2.88	6.22	5.50	14.38	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	50.0	38	12	22	26	30.0	26.0	34.0	34.0	46.0	36.0	38.0	-
14	Chlorides(mg/l)	15.0	35.2	9.5	10.0	6.0	7.5	12.0	11.5	16.5	10.99	15.0	17.0	-
15	COD(mg/l)	10.0	10.0	6.0	4.0	10.0	8.0	20.0	20.0	10.0	12.0	6.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	3.4	2.24	1.68	1.68	0.56	1.68	1.12	1.68	0.56	1.12	1.12	2.8	-
17	Ammonia (mg/l)	0.3	2.45	0.3	0.14	0.05	0.10	0.09	0.08	BDL	0.16	BDL	0.10	-
18	Total Hardness(mg/l)	36.0	38.0	20.0	22.0	24.0	18.0	22.0	32.0	32.0	48.0	78.0	40.0	-
19	Calcium(mg/l)	8.8	6.41	5.6	5.6	4.8	3.2	4.1	10.4	8.0	8.02	12.82	9.6	-
20	Magnesium(mg/l)	3.4	5.34	1.5	2	2.92	2.4	2.4	1.5	2.9	6.80	11.18	3.9	-
21	Sulphate(mg/l)	7.4	10.05	21.0	11.3	5.4	3.1	9.7	0.7	2.2	BDL	11.49	7.8	-
22	Sodium(mg/l)	8.3	49.7	49.5	2.2	34.8	23.9	38.8	22.3	23.3	3.0	23.0	52.5	-
23	Total Dissolved Solids(mg/l)	128.0	198.0	53.0	36.0	41.0	47.0	60.0	69.0	81.0	82.0	88.0	92.0	-
24	Total Fixed Solids(mg/l)	52.0	118.0	18.0	22.0	22.0	16.0	36.0	23.0	34.0	58.0	52.0	27.0	-
25	Total Suspended Solids(mg/l)	13.0	35.0	29.0	25.0	19.0	37.0	5.0	14.0	6.0	16.0	10.0	11.0	-
26	Phosphate(mg/l)	BDL	0.091	0.03	0.03	0.02	BDL	0.044	0.14	0.02	BDL	0.03	0.02	-
27	Boron(mg/l)	BDL	2.1	0.1	BDL	0.0	0.007	0.004	0.103	BDL	BDL	1.18	0.4	Max 2mg/l
28	Potassium(mg/l)	4.2	47.8	47.5	1.3	19.2	9.5	32.7	9.8	3.5	6..9	13.7	6.1	-
29	Flouride(mg/l)	0.2	0.297	BDL	BDL	BDL	BDL	BDL	0.2	0.2	BDL	BDL	BDL	-
30	SAR	3.36	20.49	26.35	1.1	17.71	14.2	20.39	9.15	9.97	2.95	6.64	20.2	Max 26.0
31	Percent Sodium (%)	-	-	-	31.7	87.49	85.6	90.8	73.0	71.0	40.04	60.46	81.3	-

CHAPOLI DAM													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class C river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	28	28	28	28	29	30	30	26	29	29	-
2	Dissolved Oxygen(mg/l)	7.9	7.9	7.7	7.1	8.7	4.2	7.3	8.3	7.1	6.9	7.8	8.0	4 mg/l or more
3	pH	8.21	7.48	8.28	7.87	8.29	7.73	8.06	8.46	7.25	7.18	8.3	7.9	6-9
4	Conductivity(µs/cm)	159.5	81	99.44	74.33	64.66	1645.0	83	75.86	96.43	66.14	133.9	117.4	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.10	BDL	0.03	BDL	BDL	0.8	0.16	BDL	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.005	BDL	0.005	0.039	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	170	220	6.8	240	220	170	220	170	110	140	14	920	5000 or less MPN/100 ml
9	Fecal Coliform(MPN/100 ml)	130	170	4.0	130.0	170.0	130	79	94	79	110	11	540	-
10	Fecal Streptococci (MPN/100ml)	70	79	2.0	79.0	70.0	94	33	32	70	94	6.8	280	-
11	Turbidity(NTU)	BDL	3.14	3.84	5.34	3.22	1.23	3.41	1.86	3.22	2.10	4.30	2.8	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	30.0	40	48.0	26.0	28.0	30.0	22.0	26.0	22.0	120.0	28.0	22.0	-
14	Chlorides(mg/l)	7.99	9.0	11.0	10.5	8.0	5.99	8.5	6.4	9.0	5.5	26.0	23.0	-
15	COD(mg/l)	10.0	10.0	8	6	4	6.0	6.0	4.0	6.0	8.0	6.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.1	1.68	0.56	2.24	0.56	0.56	0.56	0.56	3.36	1.12	1.12	-
17	Ammonia (mg/l)	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	BDL	BDL	-
18	Total Hardness(mg/l)	22.0	24.0	40.0	24.0	26.0	28.0	28.0	22.0	24.0	26.0	28.0	60.0	-
19	Calcium(mg/l)	4.8	6.4	9.62	5.60	5.61	8,016	4.8	4.8	6.41	4.01	7.2	9.6	-
20	Magnesium(mg/l)	2.43	1.90	3.89	2.43	2.92	BDL	3.9	2.4	BDL	3.89	2.4	8.8	-

21	Sulphate(mg/l)	BDL	1.8	1.72	5.50	4.97	3.7	7.9	BDL	2.2	4.09	3.70	3.6	-
22	Sodium(mg/l)	47.5	30.8	30.8	5.3	21.1	6.6	64.0	9.0	25.8	6.3	30.1	40.7	-
23	Total Dissolved Solids(mg/l)	93.0	48.0	56.0	44.0	36.0	964.0	53.0	46.0	58.0	38.0	86.0	75.0	-
24	Total Fixed Solids(mg/l)	53.0	16.0	33.0	33.0	22.0	575.0	32.0	18.0	39.0	27.0	52.0	45.0	-
25	Total Suspended Solids(mg/l)	11.0	13.0	2.0	7.0	10.0	3.0	7.0	4.0	7.0	3.0	8.0	5.0	-
26	Phosphate(mg/l)	BDL	BDL	0.02	0.03	0.02	BDL	BDL	BDL	0.02	0.06	0.02	0.03	-
27	Boron(mg/l)	1.0	0.1	BDL	BDL	0.01	0.133	0.005	0.358	BDL	0.00709	0.5	BDL	-
28	Potassium(mg/l)	9.4	29.5	29.5	2.1	10.6	5.3	26.2	6.6	13.3	11.0	1.8	5.0	-
29	Flouride(mg/l)	0.2	BDL	BDL	BDL	0.31	1.1	0.7	BDL	BDL	BDL	0.2	0.49	-
30	SAR	24.98	14.97	11.85	2.65	10.22	2.96	30.7	4.7	12.66	3.17	13.71	13.43	-
31	Percent Sodium (%)	-	-	-	47.96	78.60	54.45	91.2	68.30	82.47	68.95	76.79	71.33	-
AMBULOR LAKE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class E river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	**sample was not collected as it was DRY**	28	29	28	28	28	29	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	6.5		6.4	6.1	6.7	6.0	7.8	4.2	2.6	1.8	2.4	7.6	-
3	pH	6.58		6.45	7.09	7.84	6.34	6.98	6.44	6.28	6.38	6.60	6.93	6-8.5
4	Conductivity(µs/cm)	73.56		93.43	67.42	52.71	1413.0	64	201.1	160.3	112.2	106.6	77.21	Max 2250 µs/cm
5	BOD(mg/l)	BDL		BDL	BDL	1.9	BDL	BDL	BDL	4.7	5.4	4.3	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2		0.8	0.23	0.17	0.5	0.3	0.2	BDL	0.2	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL		BDL	0.009	0.01	0.01	BDL	0.005	0.010	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	1100		9200	5400	5400	2200	2300	2200	2400	5400	2800	280	-
9	Fecal Coliform(MPN/100 ml)	700		2400	2200	1300	1100	1300	1100	790	2400	1700	170	-

10	Fecal Streptococci (MPN/100ml)	170		140	150	330	280	310	280	94	130	140	210	-
11	Turbidity(NTU)	7.15		6.83	24.80	18.60	3.00	4.24	4.76	32.00	9.95	6.80	6.24	-
12	Phenolphthalein Alkalinity(mg/l)	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	22		22.0	16.0	22.0	16.0	22.0	42.0	28.0	16.0	30.0	24.0	-
14	Chlorides(mg/l)	6.0		14.0	15.5	12.0	10.5	9.0	20.5	14.5	22.0	39.0	10.99	-
15	COD(mg/l)	8.0		6.0	4.0	4.0	8.0	4.0	10.0	18.0	18.0	18.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	2.2		1.68	1.12	1.68	1.12	1.12	1.12	1.68	1.68	1.12	1.68	-
17	Ammonia (mg/l)	0.28		0.45	0.18	0.09	0.09	0.07	0.15	0.22	BDL	BDL	0.05	-
18	Total Hardness(mg/l)	12.0		18.0	22.0	20.0	10.0	20.0	42.0	32.0	28.0	82.0	32.0	-
19	Calcium(mg/l)	4.0		5.6	4.8	3.21	3.2	4.01	9.6	8.0	7.2	16.8	7.21	-
20	Magnesium(mg/l)	0.5		BDL	2.4	2.9	BDL	2.4	4.4	2.9	2.4	9.7	3.4	-
21	Sulphate(mg/l)	5.4		6.7	7.6	7.9	9.3	3.46	7.4	21.0	26.0	3.8	6.5	-
22	Sodium(mg/l)	35.3		31.2	8.2	5.4	38.8	4.8	47.1	26.7	19.3	29.1	44.4	-
23	Total Dissolved Solids(mg/l)	47.0		60.0	41.0	33.0	904.0	39.0	129.0	103.0	70.0	68.0	43.0	-
24	Total Fixed Solids(mg/l)	16.0		36.0	27.0	19.0	542.0	23.0	77.0	62.0	49.0	41.0	25.0	-
25	Total Suspended Solids(mg/l)	26.0		12.0	19.0	3.0	9.0	7.0	9.0	20.0	19.0	8.0	16.0	-
26	Phosphate(mg/l)	0.04		BDL	0.020	BDL	BDL	BDL	0.04	BDL	BDL	BDL	BDL	-
27	Boron(mg/l)	0.1		0.6	BDL	0.0	0.009	BDL	BDL	BDL	BDL	0.4	0.456	Max 2mg/l
28	Potassium(mg/l)	32.6		29.6	4.7	4.1	17.1	2.1	33.2	14.3	9.8	1.8	39.7	-
29	Flouride(mg/l)	0.1		BDL	BDL	BDL	BDL	BDL	0.5	BDL	0.5	0.2	BDL	-
30	SAR	23.55		17.20	4.30	3.08	28.5	2.68	17.81	11.42	8.81	7.99	19.28	Max 26.0
31	Percent Sodium (%)	-		-	64.08	60.78	93.8	51.84	85.16	78.94	75.19	53.79	88.80	-

SARZORA LAKE													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for class E river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	26	28	27	28	28	30	28	32	30	-
2	Dissolved Oxygen(mg/l)	6.7	7.3	7.3	6.3	7.8	6.5	7.7	7.9	8.4	6.8	8.1	7.8	-
3	pH	6.9	7.04	7.50	8.20	7.60	6.92	6.80	6.77	7.49	6.99	7.56	7.4	6-8.5
4	Conductivity(µs/cm)	170.2	99	77.16	48.31	43.73	64.86	80	91.8	64.87	66.21	87.8	79.8	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	BDL	BDL	BDL	0.115	0.1	BDL	0.2	0.1	0.2	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.018	BDL	BDL	BDL	BDL	BDL	BDL	0.005	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	170	2200	330	790	330	1100	700	940	2400	2800	2200	1600	-
9	Fecal Coliform(MPN/100 ml)	78	1400	230	490	230	790	460	490	790	1700	1300	430	-
10	Fecal Streptococci (MPN/100ml)	49	120	11	110	70	110	110	84	79	110	140	540	-
11	Turbidity(NTU)	10.21	21.6	28.6	8.31	5.52	1.59	1.55	3.89	2.12	2.18	3.34	2.2	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	24	26	20.0	12.0	44.0	24.0	20.0	74.0	22.0	20.0	20.0	42.0	-
14	Chlorides(mg/l)	7.5	12.0	10.0	6.0	6.5	9.0	10.5	21.5	9.0	7.5	12,996	10.5	-
15	COD(mg/l)	10.0	8.0	8.0	8.0	4.0	6.0	8.0	10.0	6.0	8.0	12.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	1.1	0.56	1.12	1.68	0.56	1.12	1.12	1.68	1.12	1.7	1.12	-
17	Ammonia (mg/l)	0.11	BDL	BDL	0.100	BDL	BDL	0.08	0.08	BDL	BDL	0.06	0.09	-
18	Total Hardness(mg/l)	18.0	18.0	14.0	10.0	36.0	26.0	22.0	22.0	16.0	58.0	34.0	26.0	-
19	Calcium(mg/l)	2.4	2.4	2.4	1.6	8.0	4.8	4.0	4.0	4.0	4.0	8.0	4.0	-
20	Magnesium(mg/l)	2.9	2.9	BDL	1.5	3.9	3.4	2.9	2.9	1.5	11.7	3.4	3.9	-

21	Sulphate(mg/l)	2.79	17.5	18.3	10.2	7.6	6.4	6.3	8.0	3.1	5.1	20.9	BDL	-
22	Sodium(mg/l)	27.0	15.9	15.9	6.5	33.2	19.0	15.0	25.7	21.7	20.6	24.6	30.1	-
23	Total Dissolved Solids(mg/l)	102.0	59.0	46.0	33.0	24.0	38.0	51.0	61.0	43.0	40.0	53.0	51.0	-
24	Total Fixed Solids(mg/l)	41.0	24.0	29.0	20.0	14.0	25.0	31.0	20.0	14.0	16.0	21.0	31.0	-
25	Total Suspended Solids(mg/l)	16.0	16.0	27.0	18.0	14.0	7.0	4.0	7.0	6.0	4.0	7.0	6.0	-
26	Phosphate(mg/l)	BDL	0.04	0.04	BDL	BDL	0.03	BDL	0.03	BDL	0.02	0.03	BDL	-
27	Boron(mg/l)	0.5	0.3	0.74	BDL	0.03	0.448	BDL	BDL	BDL	BDL	0.2	0.5	Max 2mg/l
28	Potassium(mg/l)	21.9	2.5	6.7	3.9	16.6	10.3	9.2	16.5	1.4	9.1	5.5	3.1	-
29	Flouride(mg/l)	BDL	BDL	0.1	0.2	0.3	BDL	BDL	BDL	0.3	0.3	0.3	BDL	-
30	SAR	16.57	9.8	10.79	5.26	13.61	9.38	8.06	13.81	13.09	7.4	10.3	15.14	Max 26.0
31	Percent Sodium (%)	-	-	-	77.28	79.72	78.13	77.74	85.9	80.77	65.5	72.5	80.78	-

DASHI LAKE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	29	29	27	28	27	26	29	29	29	28	30	-
2	Dissolved Oxygen(mg/l)	6.5	6.5	6.3	5.6	5.2	6.5	5.9	5.7	5.4	6.8	7.1	6.3	-
3	pH	6.45	6.66	6.88	6.46	7.16	6.75	6.51	6.05	6.80	6.76	7.17	6.89	6-8.5
4	Conductivity(µs/cm)	117.9	115.20	159.30	87.36	79.97	68.52	112.2	101.3	109.8	110.7	169.9	119.5	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	BDL	BDL	0.1	0.17	0.2	0.1	BDL	BDL	0.1	0.02	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.007	BDL	-
8	Total Coliform(MPN/100ml)	790	320	3100	1100	770	490	230	330	400	320	340	350	-
9	Fecal Coliform(MPN/100ml)	330	220	1300	490	460	230	130	170	210	170	270	240	-
10	Fecal Streptococci (MPN/100ml)	79	70	170	70	79	79	33	39	33	11	23	170	-
11	Turbidity(NTU)	1.24	2.36	1.72	2.58	3.06	11.60	1.79	2.42	2.10	1.79	1.60	2.27	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	50	64.0	30.0	40.0	30.0	30.0	36.0	36.0	38.0	56.0	78.0	40.0	-
14	Chlorides(mg/l)	8	8.50	12.50	8.0	7.0	4.5	8.0	4.50	7.50	7.50	8.0	7.0	-
15	COD(mg/l)	10	2.0	6.0	4.0	8.0	6.0	6.0	8.0	8.0	10.0	10.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	0.56	0.60	1.68	0.56	1.1208	0.56	2.80	2.24	1.12	1.68	1.68	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	BDL	0.07	0.06	-
18	Total Hardness(mg/l)	4	52.0	46.0	38.0	38.0	24.0	40.0	44.0	52.0	48.0	84.0	52.0	-
19	Calcium(mg/l)	BDL	10.40	9.60	7.2	8.02	4.8	9.6	7.21	11.2	12.0	16.8	16.03	-
20	Magnesium(mg/l)	BDL	6.32	5.30	4.9	4.37	2.9	3.9	3.4	5.8	4.4	10.2	2.92	-

21	Sulphate(mg/l)	10.9	2.19	3.10	2.8	2.90	7.0	BDL	6.32	1.6	5.3	2.9	4.16	-
22	Sodium(mg/l)	41.3	17.8	17.2	15.2	3.9	7.7	28.1	7.5	32.4	18.3	19.9	25.6	-
23	Total Dissolved Solids(mg/l)	68	72.0	99.0	54.0	51.0	45.0	68.0	64.0	68.0	66.0	102.0	77.0	-
24	Total Fixed Solids(mg/l)	24	46.0	42.0	22.0	30.0	16.0	48.0	41.0	28.0	22.0	14.0	46.0	-
25	Total Suspended Solids(mg/l)	5	5.0	3.0	5.0	2.0	25.0	6.0	11.0	4.0	4.0	6.0	7.0	-
26	Phosphate(mg/l)	BDL	BDL	0.06	0.02	BDL	0.02	0.04	BDL	BDL	BDL	BDL	0.06	-
27	Boron(mg/l)	0.2	1.04	0.3	BDL	0.001	BDL	BDL	0.016	BDL	BDL	0.8	0.8	Max 2mg/l
28	Potassium(mg/l)	25.3	7.3	7.7	6.8	2.7	3.2	15.3	3.6	1.2	0.8	1.4	16.1	-
29	Flouride(mg/l)	0.4	0.22	0.2	BDL	BDL	BDL	0.22	0.19	0.1	0.3	0.4	BDL	-
30	SAR	51.47	6.16	6.29	6.186	1.57	3.9	10.89	2.88	11.10	6.4	7.1	8.32	Max 26.0
31	Percent Sodium (%)	-	-	-	64.56	34.76	58.5	76.27	45.07	66.3	53.8	57.4	68.76	-

TOYYAR LAKE

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	29	29	29	27	26	27	29	30	29	29	30	-
2	Dissolved Oxygen(mg/l)	6.8	7.7	6.3	7.0	7.5	7.6	7.1	7.60	7.3	6.5	7.4	8.8	-
3	pH	7.37	7.4	6.45	7.33	6.66	6.88	6.33	7.1	7.74	7.09	7.4	7.85	6-8.5
4	Conductivity(µs/cm)	77.47	80.45	71.78	54.46	44.7	45.95	63.36	50.37	77.99	68.54	62.91	60.76	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	BDL	0.1	1.051	0.24	0.19	0.3	BDL	BDL	BDL	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.004	BDL	BDL	0.007	0.005	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2400	940	240	350	340	2400	3500	5400	2400	2200	1300	130	-
9	Fecal Coliform(MPN/100ml)	1300	460	130	170	220	790	1300	2400	490	700	490	49	-

10	Fecal Streptococci (MPN/100ml)	170	110	94	49	33	140	170	110	170	93	110	24	-
11	Turbidity(NTU)	1.68	1.55	2.38	6.0	10.85	3.90	5.0	2.9	3.34	3.67	2.10	2.16	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	18	18.0	16.0	20.0	16.0	18.0	14.0	12.0	20.0	28.0	20.0	14.0	-
14	Chlorides(mg/l)	5.5	7.33	19.50	6.49	5.5	7.0	10.5	17.5	11.5	9.0	8.50	6.0	-
15	COD(mg/l)	4	4.0	10.0	4.0	6.0	12.0	4.0	6.0	4.0	4.0	6.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	2.24	1.68	1.12	1.68	1.12	1.12	1.12	0.56	1.12	1.12	0.56	-
17	Ammonia (mg/l)	BDL	0.042	BDL	0.053	BDL	BDL	0.05	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	18	24.0	26.0	18.0	16.0	16.0	20.0	38.0	20.0	14.0	14.0	36.0	-
19	Calcium(mg/l)	4	4.01	5.60	4.8	3.2	4.0	4.8	4.0	4.0	3.2	2.4	4.01	-
20	Magnesium(mg/l)	1.9	3.402	2.9	1.458	BDL	1.5	BDL	6.8	2.4	1.5	BDL	6.32	-
21	Sulphate(mg/l)	10	11.450	8.2	3.99	3.5	4.4	2.4	2.0	5.9	6.9	6.1	9.40	-
22	Sodium(mg/l)	21.5	29.8	29.4	22.1	28.7	25.1	5.6	38.1	5.1	22.6	27.1	34.7	-
23	Total Dissolved Solids(mg/l)	51	55.0	42.0	30.0	28.0	27.0	37.0	30.0	45.0	45.0	41.0	37.0	-
24	Total Fixed Solids(mg/l)	17	33.0	28.0	18.0	12.0	9.0	26.0	12.0	30.0.	15.0	27.0	22.0	-
25	Total Suspended Solids(mg/l)	9	6.0	6.0	13.0	18.0	10.0	11.0	6.0	7.0	6.0	6.0	4.0	-
26	Phosphate(mg/l)	BDL	BDL	0.02	0.053	0.04	BDL	BDL	0.0378	0.02	BDL	BDL	BDL	-
27	Boron(mg/l)	0.3	0.728	0.5	BDL	0.005	0.005	0.035	0.38	BDL	BDL	0.3	1.1	Max 2mg/l
28	Potassium(mg/l)	12.2	17.5	17.1	12.5	6.2	15.2	2.0	24.2	2.8	2.7	3.6	19.5	-
29	Flouride(mg/l)	BDL	0.353	BDL	BDL	BDL	BDL	BDL	BDL	0.3	BDL	0.4	BDL	-
30	SAR	12.46	15.48	14.24	12.49	17.9	15.2	3.06	16.39	2.85	14.74	18.38	15.34	Max 26.0
31	Percent Sodium (%)	-	-	-	84.68	87.1	88.06	53.15	85.2	55.24	84.33	87.7	84.11	-

PILERNE LAKE/SAULEM LAKE, PILERNE, SANGOLDA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	29	29	27	28	28	28	29	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	7.1	4.9	4.9	5.2	4.1	4.2	6.4	4.5	7.1	5.0	4.3	4.5	-
3	pH	6.48	6.41	6.56	6.01	6.64	5.60	7.05	5.79	6.56	6.48	6.18	6.16	6-8.5
4	Conductivity(µs/cm)	130.6	149.9	147.3	118.3	88.34	141.10	117.9	125.8	128.80	113.2	124.1	146.3	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.34	0.18	0.1	2.29	1.8	2.44	1.3	0.81	0.2	0.2	0.13	0.4	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.006	BDL	BDL	0.01	0.01	0.008	0.007	BDL	0.005	0.014	0.005	BDL	-
8	Total Coliform(MPN/100ml)	3500	490	5400	3500	2400	4900	3500	2800	2200	930	2800	920	-
9	Fecal Coliform(MPN/100ml)	2400	330	2400	1700	1300	2300	1700	1300	1300	680	1400	540	-
10	Fecal Streptococci (MPN/100ml)	220	140	240	220	140	270	170	140	170	70	210	350	-
11	Turbidity(NTU)	3.39	3.76	1.36	4.27	5.87	4.24	8.71	5.04	4.42	2.11	9.01	5.61	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	38	34	34	18.0	16.0	24.0	16.0	20.0	24.0	30.0	24.0	26.0	-
14	Chlorides(mg/l)	16	24	24.5	17.49	13.50	18.0	16.5	14.49	21.99	18.49	20.5	17.99	-
15	COD(mg/l)	6	8	4	4.0	4.0	4.0	4.0	BDL	10.0	12.0	10.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.12	0.6	1.12	1.68	1.68	0.56	2.80	3.36	2.24	1.68	1.12	-
17	Ammonia (mg/l)	BDL	0.07	BDL	0.11	0.06	BDL	0.07	BDL	0.10	0.10	0.09	0.06	-
18	Total Hardness(mg/l)	28	32	36	30.0	56.0	20.0	22.0	24.0	42.0	28.0	22.0	36.0	-
19	Calcium(mg/l)	5.6	6.41	8	8.82	6.41	5.6	4.8	5.61	6.4	7.2	5.6	8.82	-

20	Magnesium(mg/l)	3.4	3.89	3.9	BDL	9.72	1.5	2.4	2.43	6.3	2.4	1.9	3.40	-
21	Sulphate(mg/l)	4.9	7.59	4.5	4.12	2.57	9.5	3.9	8.92	19.3	7.3	11.9	9.70	-
22	Sodium(mg/l)	73.8	18.9	18.3	7.5	6.3	15.2	28.1	14.9	43.9	21.8	25.3	28.0	-
23	Total Dissolved Solids(mg/l)	84	89	90	68.0	50.0	93.0	70.0	81.0	79.0	61.0	74.0	94.0	-
24	Total Fixed Solids(mg/l)	55	56	38	40.0	30.0	31.0	47.0	52.0	33.0	20.0	29.0	55.0	-
25	Total Suspended Solids(mg/l)	8.0	7.0	5.0	2.0	2.0	15.0	17.0	6.0	6.0	5.0	12.0	16.0	-
26	Phosphate(mg/l)	BDL	BDL	0.03	0.02	BDL	0.02	BDL	0.042	0.03	BDL	BDL	0.31	-
27	Boron(mg/l)	0.89	1.05	0.4	BDL	0.014	BDL	0.017	0.020	BDL	BDL	0.4	0.5	Max 2mg/l
28	Potassium(mg/l)	61.4	7.2	7.4	5.1	4.1	7.9	15.0	7.4	3.0	2.1	3.5	19.4	-
29	Flouride(mg/l)	BDL	BDL	BDL	BDL	BDL	0.8	0.29	BDL	0.5	0.3	0.5	BDL	-
30	SAR	34.79	8.33	7.5	3.23	2.22	8.2	14.81	7.41	17.4	14.0	13.0	11.33	Max 26.0
31	Percent Sodium (%)	-	-	-	53.94	39.20	76.7	85.69	73.50	78.7	83.1	79.2	79.50	-

BONDVOL LAKE, CALAPUR, TALEIGAO

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	28	28	28	27	28	28	29	29	30	-
2	Dissolved Oxygen(mg/l)				5.0	4.9	5.0	4.8	4.6	4.8	4.1	4.2	6.7	-
3	pH				6.89	5.84	6.64	6.18	6.77	6.26	6.68	6.50	6.40	6-8.5
4	Conductivity(µs/cm)				62.12	48.38	1306.0	61.56	44.0	51.91	77.7	47.57	73.82	Max 2250 µs/cm
5	BOD(mg/l)				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)				0.31	0.32	0.3	0.107	BDL	BDL	0.3	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l				BDL	0.005	BDL	BDL	BDL	BDL	0.009	BDL	BDL	-
8	Total Coliform(MPN/100ml)				1300	630	790	700	790	700	2800	3500	920	-

9	Fecal Coliform(MPN/100ml)				780	460	490	330	230	330	1300	2200	350	-
10	Fecal Streptococci (MPN/100ml)				110	49	94	84	70	70	230	170	540	-
11	Turbidity(NTU)				3.57	2.48	2.11	5.16	1.98	2.05	2.35	1.02	2.37	-
12	Phenolphthalein Alkalinity(mg/l)				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)				12.0	18.0	16.0	16.0	16.0	16.0	16.0	18.0	22.0	-
14	Chlorides(mg/l)				11.5	7.49	13.0	11.49	17.0	14.0	19.49	23.99	17.0	-
15	COD(mg/l)				4.0	10.0	6.0	4.0	6.0	4.0	14.0	8.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)				0.56	1.68	0.56	1.12	0.56	0.56	1.12	1.12	0.56	-
17	Ammonia (mg/l)				BDL	BDL	0.05	BDL	BDL	BDL	0.09	BDL	BDL	-
18	Total Hardness(mg/l)				14.0	16.0	36.0	18.0	10.0	38.0	44.0	28.0	14.0	-
19	Calcium(mg/l)				2.4	5.61	7.2	4.81	2.4	12.02	961.9	5.61	4.0	-
20	Magnesium(mg/l)				BDL	0.486	4.4	BDL	BDL	BDL	4.8	3.402	0.972	-
21	Sulphate(mg/l)				4.4	1.58	3.4	BDL	7.5	2.72	2.6	2.381	4.7	-
22	Sodium(mg/l)				11.0	23.1	34.6	68.3	6.8	4.4	28.0	21.2	34.6	-
23	Total Dissolved Solids(mg/l)				36.0	31.0	770.0	34.0	28.0	32.0	46.0	26.0	42.0	-
24	Total Fixed Solids(mg/l)				25.0	19.0	523.0	20.0	17.0	19.0	18.0	15.0	25.0	-
25	Total Suspended Solids(mg/l)				7.0	5.0	5.0	12.0	6.0	7.0	4.0	3.0	6.0	-
26	Phosphate(mg/l)				0.10	BDL	0.17	BDL	BDL	BDL	0.06	BDL	BDL	-
27	Boron(mg/l)				1.2	0.012	0.128	0.004	3.43	BDL	BDL	BDL	0.91	Max 2mg/l
28	Potassium(mg/l)				6.2	5.3	18.2	34.2	2.4	2.5	1.9	14.9	20.1	-
29	Flouride(mg/l)				0.80	0.312	0.53	BDL	BDL	0.2	BDL	0.582	BDL	-
30	SAR				7.5	13.23	14.37	38.58	5.2	1.67	1.3	9.99	21.94	Max 26.0
31	Percent Sodium (%)				80.0	82.33	81.99	94.24	73.2	33.08	3.0	80.02	91.67	-

SULABHAT LAKE, AGACAIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	31	30	28	29	28	26	29	29	31	30	31	-
2	Dissolved Oxygen(mg/l)	6.9	6.3	7.7	5.6	5.0	2.9	2.7	4.8	5.8	6.4	8.0	6.2	-
3	pH	6.62	7.35	7.2	7.66	6.43	5.9	6.4	7.02	6.62	6.80	7.11	6.48	6-8.5
4	Conductivity(µs/cm)	83.64	85.08	72.23	72.67	60.46	1309.0	61.31	76.33	85.05	55.00	61.37	133.50	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	3.2	3.97	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	0.51	BDL	0.30	0.2	0.2	BDL	0.3	0.360	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.005	0.01	BDL	0.005	BDL	0.005	BDL	0.008	0.007	BDL	-
8	Total Coliform(MPN/100ml)	2200	1700	1300	3500	1400	2400	5400	4600	3300	4900	5400	350	-
9	Fecal Coliform(MPN/100ml)	1700	1400	790	1700	1100	1300	2200	2300	1700	3300	2400	140	-
10	Fecal Streptococci (MPN/100ml)	220	170	110	210	130	280	350	400	390	170	350	170	-
11	Turbidity(NTU)	9.03	8.00	6.01	4.01	2.3	3.90	4.8	1.56	4.92	3.12	3.18	4.18	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	32	24.0	16.0	18.0	24.0	28.0	24.0	20.0	18.0	14.0	18.0	10.0	-
14	Chlorides(mg/l)	15.5	11.0	7.99	9.50	7.99	300.0	8.0	25.99	14.50	12.50	14.49	25.0	-
15	COD(mg/l)	4	6.0	6.0	4.0	8.0	20.0	18.0	4.0	6.0	8.0	6.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.8	0.56	1.68	0.56	16.81	1.1	0.56	1.68	1.12	1.68	1.10	-
17	Ammonia (mg/l)	BDL	0.09	BDL	0.08	0.05	BDL	0.20	0.05	0.13	0.07	BDL	0.07	-
18	Total Hardness(mg/l)	36	24.0	18.0	20.0	20.0	24.0	24.0	38.0	48.0	36.0	20.0	26.0	-
19	Calcium(mg/l)	48.1	6.40	6.41	5.61	6.41	7.2	7.2	8.02	14.43	721.4	7.21	5.6	-

20	Magnesium(mg/l)	5.83	1.9	0.486	1.46	0.97	18.0	1.5	4.37	2.92	4.4	BDL	2.9	-
21	Sulphate(mg/l)	8.316	5.3	1.51	6.65	3.86	8.0	3.5	17.93	BDL	2.2	8.81	7.9	-
22	Sodium(mg/l)	21	28.0	28.9	6.4	26.1	19.1	16.4	21.1	15.9	31.8	22.8	51.4	-
23	Total Dissolved Solids(mg/l)	53	55.0	41.0	41.0	41.0	871.0	37.0	48.0	53.0	33.0	34.0	87.0	-
24	Total Fixed Solids(mg/l)	31	18.0	24.0	24.0	25.0	318.0	15.0	30.0	30.0	13.0	20.0	28.0	-
25	Total Suspended Solids(mg/l)	4	8.0	12.0	2.0	5.0	16.0	10.0	3.0	12.0	5.0	7.0	11.0	-
26	Phosphate(mg/l)	0.021	0.02	BDL	0.03	BDL	BDL	BDL	0.02	BDL	0.08	BDL	BDL	-
27	Boron(mg/l)	0.92	0.3	0.814	BDL	0.009	0.017	0.009	BDL	BDL	BDL	0.68	0.2	Max 2mg/l
28	Potassium(mg/l)	5.5	5.9	5.3	4.9	5.5	9.8	14.2	12.8	6.2	2.6	13.9	5.5	-
29	Flouride(mg/l)	1.29	BDL	0.453	BDL	0.457	0.2	0.2	BDL	BDL	BDL	0.211	BDL	-
30	SAR	4	13.7	15.6	3.4	13.59	9.17	7.9	8.48	5.4	1.7	11.62	24.93	Max 26.0
31	Percent Sodium (%)	-	-	-	61.5	81.06	76.9	78.0	73.23	56.02	4.5	82.67	87.0	-
MALEBHAAT LAKE, TISWADI														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	30	27	28	27	26	29	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	5	5	7.9	5.6	5.2	6.0	4.2	4.2	6.1	5.2	5.3	5.3	-
3	pH	7.64	7.58	8.48	7.57	6.73	7.53	6.74	7.5	7.48	7.45	7.39	7.50	6-8.5
4	Conductivity(µs/cm)	67500	60590	23560	848.7	2050.0	21300.0	32800.0	40510.0	46010.0	40920.0	15020.0	57510.0	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.4	0.1	0.396	BDL	0.1	0.3	0.4	0.1	0.14	0.1	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.005	0.019	0.014	0.007	0.010	0.006	0.005	0.018	0.01	BDL	0.006	-
8	Total Coliform(MPN/100ml)	700	540	490	700	2800	790	1400	2100	2400	2600	3500	1600	-

9	Fecal Coliform(MPN/100ml)	490	350	230	330	1700	230	1100	1300	1700	1700	2400	220	-
10	Fecal Streptococci (MPN/100ml)	94	79	70	79	240	70	120	110	130	220	540	94	-
11	Turbidity(NTU)	8.56	11.37	13.27	56.6	25.9	9.19	10.13	41.62	5.84	9.54	2.39	5.16	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	154	144	120	26	48.0	78.0	72.0	84.0	86.0	124.0	92.0	102.0	-
14	Chlorides(mg/l)	15620.1	15995.04	9122.20	218.9	74.97	8747.3	14120.62	14870.39	17494.58	13495.80	16869.8	17494.58	-
15	COD(mg/l)	-	-	-	4.0	10.0	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.7	2.8	2.8	1.68	0.56	1.7	0.56	0.56	1.68	1.12	0.56	-
17	Ammonia (mg/l)	BDL	BDL	0.09	0.123	0.18	0.07	0.32	0.05	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	10400	6800	3000	84.0	240.0	3480.0	5500.0	5600.0	7400.0	7600.0	5400.0	6000.0	-
19	Calcium(mg/l)	641.28	481	400.8	7.21	24.05	729.5	801.6	240.48	480.96	481.0	400.8	641.28	-
20	Magnesium(mg/l)	2138.4	1360.8	486	16.03	43.74	403.4	850.5	1215.0	1506.60	1555.2	1069.2	1069.2	-
21	Sulphate(mg/l)	1845.11	1290.7	15.2	38.91	58.66	1904.0	2472.4	2069.78	2206.62	2065.4	729.6	2645.83	-
22	Sodium(mg/l)	3150	3167	3160	67.2	27.3	5600.0	5564.0	4264.0	5500.0	7875.0	984.6	5680.0	-
23	Total Dissolved Solids(mg/l)	44550	36353.0	14715.0	543.0	1312.0	12567.0	19682.0	23802.0	23743.0	23324.0	9012.0	37956.0	-
24	Total Fixed Solids(mg/l)	26730	14541.0	4893.0	326.0	787.0	7665.0	7873.0	14287.0	14251.0	13994.0	3604.0	22773.0	-
25	Total Suspended Solids(mg/l)	4	12.0	26.0	30.0	30.0	15.0	14.0	33.0	9.0	11.0	4.0	11.0	-
26	Phosphate(mg/l)	0.276	0.05	BDL	0.03	0.09	0.05	0.05	0.04	0.03	BDL	0.04	0.08	-
27	Boron(mg/l)	1.33	0.8	BDL	0.04	0.18	1.229	1.927	0.86	0.19	2.5501	BDL	1.7	Max 2mg/l
28	Potassium(mg/l)	1075	1079	1060	40.2	19.1	2918.0	2254.0	3175.0	3550.0	6150.0	738.0	1800.0	-
29	Flouride(mg/l)	1.45	0.9	1	0.04	0.348	1.3	1.1	1.7	1.1	BDL	1.4	1.2	-
30	SAR	84.49	104.36	150.07	19.707	4.69	235.29	193.6	158.06	174.47	231.0	36.32	194.22	Max 26.0
31	Percent Sodium (%)	-	-	-	82.20	40.63	88.26	82.6	83.64	81.99	88.51	54.0	81.39	-

GAWALI MAULA LAKE, TISWADI														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	30	28	29	28	26	29	28	30	30	31	-
2	Dissolved Oxygen(mg/l)	3.5	4.7	5.5	6.0	4.1	2.5	1.6	BDL	5.0	5.6	4.8	6.5	-
3	pH	6.95	7.08	6.22	7.51	6.02	6.0	6.86	6.93	6.12	6.44	6.52	7.02	6-8.5
4	Conductivity(µs/cm)	1867	1690.0	414.6	72.84	83.43	1342.0	46.59	203.1	1295.0	4552.0	17090.0	40300.0	Max 2250 µs/cm
5	BOD(mg/l)	4.7	BDL	BDL	BDL	BDL	3.6	3.2	5.41	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.4	BDL	0.2	BDL	0.10	0.2	0.3	BDL	BDL	0.1	0.2	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.005	-
8	Total Coliform(MPN/100ml)	1300	1100	1300	1700	1300	1700	630	580	680	1700	3500	350	-
9	Fecal Coliform(MPN/100ml)	790	700	790	700	490	700	460	310	450	1100	1300	130	-
10	Fecal Streptococci (MPN/100ml)	220	170	110	140	110	130	94	79	92	78	94	540	-
11	Turbidity(NTU)	18.11	21.80	6.41	8.54	3.83	5.0	3.27	6.63	7.01	10.16	2.85	4.68	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	100	82	24	14.0	24.0	30.0	16.0	26.0	26.0	44.0	58.0	100.0	-
14	Chlorides(mg/l)	749.77	1000.00	100.97	15.5	15.99	200.0	8.0	61.48	499.85	2849.10	5373.3	15745.12	-
15	COD(mg/l)	14	8.0	8.0	8.0	8.0	20.0	20.0	16.0	8.0	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	0.6	1.12	1.1	0.56	1.68	0.6	1.12	0.56	0.56	1.68	0.56	-
17	Ammonia (mg/l)	BDL	0.08	BDL	0.08	0.05	BDL	0.18	0.06	0.09	0.08	BDL	BDL	-
18	Total Hardness(mg/l)	190	1000	50	10.0	18.0	22.0	18.0	58.0	134.0	520.0	2000.0	5200.0	-
19	Calcium(mg/l)	16.03	320.6	8.82	3.2	3.21	5.6	4.0	6.41	15.23	48.1	721.4	641.28	-
20	Magnesium(mg/l)	36.45	48.6	6.804	0.5	2.43	14.0	1.9	10.21	23.33	97.2	48.6	874.80	-

21	Sulphate(mg/l)	30.46	96.40	1.17	4.1	3.74	10.8	BDL	17.09	60.14	103.8	537.6	1466.63	-
22	Sodium(mg/l)	32.3	35.7	36.3	21.5	870.1	19.4	12.6	10.5	320.0	2340.0	183.6	5375.0	-
23	Total Dissolved Solids(mg/l)	1194	1030.0	233.0	41.0	55.0	893.0	28.0	121.0	776.0	2822.0	10254.0	24986.0	-
24	Total Fixed Solids(mg/l)	716	412.0	139.0	14.0	33.0	297.0	11.0	75.0	463.0	1693.0	4101.0	14991.0	-
25	Total Suspended Solids(mg/l)	9	16.0	11.0	12.0	6.0	25.0	5.0	15.0	23.0	10.0	4.0	9.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.03	BDL	0.02	BDL	0.02	BDL	BDL	0.02	0.08	-
27	Boron(mg/l)	0.79	0.5	0.711	BDL	0.018	0.069	0.002	BDL	BDL	0.1669	0.2	1.3	Max 2mg/l
28	Potassium(mg/l)	12.8	13.7	12.8	8.9	580.2	10.1	10.0	6.2	110.0	310.0	98.6	2125.0	-
29	Flouride(mg/l)	1.29	0.3	0.413	0.1	0.438	0.1	BDL	0.3	0.2	BDL	0.7	1.2	-
30	SAR	6.31	2.62	12.99	15.8	518.14	9.98	7.3	3.64	72.88	214.32	9.36	195.22	Max 26.0
31	Percent Sodium (%)	-	-	-	89.2	99.61	79.6	79.15	50.12	91.77	86.29	26.8	83.18	-
CURCA LAKE, TISWADI														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	27	28	27	26	28	28	30	29	30	-
2	Dissolved Oxygen(mg/l)				5.6	8.1	6.9	4	4.3	4.4	4.0	4.2	5.6	-
3	pH				7.16	6.67	6.21	6.64	7.09	6.73	6.76	6.61	7.04	6-8.5
4	Conductivity(µs/cm)				101.0	128.4	1654.0	166.6	21600.0	29410.0	22270.0	29920.0	35490.0	Max 2250 µs/cm
5	BOD(mg/l)				BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)				0.98	0.67	0.3	0.535	0.1	0.1	1.7	0.1	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l				0.011	0.005	0.008	0.009	0.006	0.008	0.043	BDL	BDL	-
8	Total Coliform(MPN/100ml)				1300	790	1100	2200	2400	2000	4600	5400	540	-
9	Fecal Coliform(MPN/100ml)				790	330	790	1400	790	1100	2300	2400	280	-

10	Fecal Streptococci (MPN/100ml)				130	79	140	170	220	240	230	350	140	-
11	Turbidity(NTU)				12.62	4.42	5.76	4.24	1.86	11.34	9.11	4.47	7.68	-
12	Phenolphthalein Alkalinity(mg/l)				BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)				18.0	24.0	32.0	50.0	66.0	68.0	76.0	64.0	70.0	-
14	Chlorides(mg/l)				18.0	28.49	18.5	33.49	10496.75	11496.44	8622.0	10496.7	12621.1	-
15	COD(mg/l)				6.0	6.0	8.0	6.0	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)				0.56	2.24	1.12	0.56	1.68	1.68	1.68	1.68	2.20	-
17	Ammonia (mg/l)				BDL	BDL	0.17	BDL	0.16	0.17	0.20	0.12	0.12	-
18	Total Hardness(mg/l)				18	24.0	56.0	34.0	6600.0	5400.0	2800.0	6000.0	4400.0	-
19	Calcium(mg/l)				4.8	4.81	10.4	8.02	1122.24	641.28	641.3	1202.4	651.9	-
20	Magnesium(mg/l)				BDL	2.91	7.3	3.402	923.40	923.40	291.6	729.0	486.0	-
21	Sulphate(mg/l)				5.1	3.29	2.5	BDL	1251.66	777.98	1227.9	576.0	1494.5	-
22	Sodium(mg/l)				18.6	15.1	64.3	82.4	3426	3460.0	662.5	454.9	826.3	-
23	Total Dissolved Solids(mg/l)				62.0	82.0	1008.0	93.0	12847.0	16246.0	13361.0	17952.0	22200.0	-
24	Total Fixed Solids(mg/l)				46.0	49.0	655.0	55.0	7710.0	9745.0	6344.0	7180.0	7399.0	-
25	Total Suspended Solids(mg/l)				17.0	6.0	13.0	8.0	6.0	15.0	15.0	6..0	15.0	-
26	Phosphate(mg/l)				0.08	0.05	0.54	BDL	0.02	0.03	0.11	BDL	BDL	-
27	Boron(mg/l)				BDL	0.024	0.104	0.017	0.77	1.146	1.2176	0.4	0.3	Max 2mg/l
28	Potassium(mg/l)				9.5	4.1	35.8	41.2	1252.0	1955.0	129.0	318.2	186.1	-
29	Flouride(mg/l)				BDL	0.294	0.2	BDL	1.5	1.0	0.3	1.0	0.2	-
30	SAR				10.48	7.69	21.61	34.48	107.12	123.70	30.7	14.64	36.10	Max 26.0
31	Percent Sodium (%)				81.69	71.32	84.97	91.54	69.58	77.58	45.9	28.6	49.1	-

CANTURLIM LAKE, TISWADI														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	29	27	29	27	26	29	28	30	29	31	-
2	Dissolved Oxygen(mg/l)	4.7	4.3	7.8	5.4	5.2	3.8	4.1	4.7	4.9	4.2	4.4	2.6	-
3	pH	7.55	7.066	7.67	7.59	7.13	6.52	6.02	7.56	5.64	7.69	6.41	6.0	6-8.5
4	Conductivity(µs/cm)	66520	60840	25670	757.3	1750.0	1339.0	99.44	40410.0	123.4	43390.0	154.8	126.5	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	2.3	BDL	BDL	BDL	BDL	BDL	3.6	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.5	0.5	0.273	BDL	0.8	0.4	0.4	0.3	1.1	0.1	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.006	0.010	0.107	0.006	0.007	0.008	0.006	BDL	0.025	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2400	2100	2200	2400	3400	1300	2800	2200	1300	3300	5400	920	-
9	Fecal Coliform(MPN/100ml)	1300	1400	1700	1300	2700	790	1700	1300	790	1300	3500	220	-
10	Fecal Streptococci (MPN/100ml)	170	200	140	170	330	130	150	140	110	330	540	47	-
11	Turbidity(NTU)	8.77	11.82	12.11	26.8	35.2	6.39	4.59	4.60	4.62	7.53	1.16	4.28	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	146	138	76	34.0	42.0	22.0	28.0	82.0	22.0	112.0	18.0	20.0	-
14	Chlorides(mg/l)	16619.84	16494.88	8997.21	43.49	69.97	13.5	13.0	14495.51	21.49	16369.0	22.0	17.5	-
15	COD(mg/l)	-	-	-	4.0	12.0	12.0	10.0	-	4.0	-	10.0	18.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	1.1	0.56	2.24	0.56	0.56	1.68	0.56	1.12	1.68	1.68	1.6	-
17	Ammonia (mg/l)	BDL	0.06	0.28	0.108	0.17	BDL	0.23	0.05	0.10	0.16	BDL	0.05	-
18	Total Hardness(mg/l)	8800	7400.0	3400.0	82.0	180.0	32.0	28.0	4800.0	50.0	6800.0	32.0	28.0	-
19	Calcium(mg/l)	1362.72	400.8	320.64	12.82	24.05	5.6	6.4	561.12	7.21	481.0	7.2	6.4	-

20	Magnesium(mg/l)	1312.2	1555.2	631.8	12.15	29.16	4.4	3.0	826.20	7.78	1360.8	3.4	2.9	-
21	Sulphate(mg/l)	2479.21	1646.7	1356.6	33.22	57.76	11.4	3.8	1811.06	7.84	1795.7	5.9	8.5	-
22	Sodium(mg/l)	3125	3137.0	3137.0	46.7	20.1	37.3	26.2	4026.0	7.4	1394.0	38.4	22.2	-
23	Total Dissolved Solids(mg/l)	41242	36504.0	14294.0	484.0	1120.0	803.0	60.0	22682.0	75.0	26034.0	93.0	79.0	-
24	Total Fixed Solids(mg/l)	24745	14602.0	8574.0	290.0	672.0	554.0	24.0	13613.0	45.0	10414.0	37.0	26.0	-
25	Total Suspended Solids(mg/l)	4	12.0	14.0	21.0	26.0	14.0	8.0	12.0	11.0	10.0	2.0	14.0	-
26	Phosphate(mg/l)	0.09	0.05	0.05	0.09	0.05	0.04	BDL	0.04	0.02	0.13	0.02	BDL	-
27	Boron(mg/l)	1.83	0.4	1.4	0.04	0.16	0.023	BDL	1.02	BDL	2.5426	0.3	BDL	Max 2mg/l
28	Potassium(mg/l)	1100	1121.0	1121.0	36.1	10.3	19.4	16.6	2546.0	3.1	275.7	23.1	2.7	-
29	Flouride(mg/l)	1.44	1.1	0.3	0.11	0.42	0.2	BDL	1.9	0.3	BDL	0.6	BDL	-
30	SAR	85.45	100.31	143.75	13.216	3.9	16.68	12.1	152.86	2.70	45.9	16.68	10.3	Max 26.0
31	Percent Sodium (%)	-	-	-	76.83	36.36	85.01	82.1	82.57	41.19	47.6	85.3	72.81	-
PARRA LAKE, BARDEZ														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	**sample was not collected as it was DRY**	27	28	28	28	28	29	29	28	30	-
2	Dissolved Oxygen(mg/l)	6.2	4.9		7.8	7.6	8.3	4.8	4.8	7.4	6.3	8.1	7.5	-
3	pH	8.18	6.46		7.3	7.88	7.63	7.32	7.06	7.74	8.23	8.15	6.81	6-8.5
4	Conductivity(µs/cm)	2925	151.5		1228.0	475.4	702.50	926.7	1499.0	1900.0	2022.0	2182.0	2909.0	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2		0.5	0.175	0.18	0.2	BDL	0.1	BDL	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL		0.019	BDL	BDL	0.02	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	390	330		230	330	5400	130	220	260	210	170	1600	-

9	Fecal Coliform(MPN/100ml)	270	260		130	170	2400	79	130	170	130	79	540	-
10	Fecal Streptococci (MPN/100ml)	70	84		23	46	140	33	32	33	24	46	540	-
11	Turbidity(NTU)	1.08	2.59		10.9	2.27	2.64	BDL	1.77	1.87	0.99	0.64	1.67	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL		BDL	BDL	8.0	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	48	34		82.0	50.0	48.0	68.0	76.0	60.0	34.0	20.0	24.0	-
14	Chlorides(mg/l)	12.5	25		50.5	10.0	115.0	11.0	7.50	16.99	105.0	49.98	404.87	-
15	COD(mg/l)	8	4		6.0	4.0	10.0	4.0	4.0	10.0	6.0	12.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.6	1.12		0.56	1.12	2.2416	1.12	1.68	3.36	1.12	2.24	0.56	-
17	Ammonia (mg/l)	0.06	0.08		BDL	BDL	0.11	0.2	BDL	0.16	BDL	0.07	BDL	-
18	Total Hardness(mg/l)	14	34		450.0	208.0	226.0	410.0	960.0	1160.0	1380.0	2000.0	1800.0	-
19	Calcium(mg/l)	4	7.21		81.8	81.76	85.0	108.2	376.75	352.7	505.0	721.4	521.04	-
20	Magnesium(mg/l)	BDL	3.89		108.8	BDL	3.4	34.0	4.86	68.0	29.16	48.6	121.50	-
21	Sulphate(mg/l)	15.5	7.5		444.3	161.62	19.4	227.9	628.76	232.0	1288.9	174.1	374.40	-
22	Sodium(mg/l)	69.2	21.6		2269.0	7.4	32.3	45.3	31.1	44.5	3.8	26.2	2480.0	-
23	Total Dissolved Solids(mg/l)	1667	89		753.0	304.0	464.0	556.0	927.0	1218.0	1294.0	1308.0	1746.0	-
24	Total Fixed Solids(mg/l)	556	64		275.0	182.0	165.0	400.0	591.0	58.0	776.0	523.0	1046.0	-
25	Total Suspended Solids(mg/l)	6	6		18.0	2.0	11.0	4.0	6.0	3.0	2.0	6.0	6.0	-
26	Phosphate(mg/l)	BDL	BDL		0.02	BDL	0.06	BDL	BDL	BDL	BDL	BDL	0.16	-
27	Boron(mg/l)	0.3	1.01		0.02	0.016	BDL	0.018	0.039	0.298	34.21	0.6	1.6	Max 2mg/l
28	Potassium(mg/l)	39.4	8.9		1540.0	3.8	14.2	23.0	14.1	13.8	1.7	8.2	1570.0	-
29	Flouride(mg/l)	0.5	BDL		0.7	BDL	0.8	0.67	0.97	0.7	BDL	1.2	1.0	-
30	SAR	43.5	9.17		232.47	1.15	4.9	5.37	2.25	3.07	0.42	1.3	139.34	Max 26.0
31	Percent Sodium (%)	-	-		95.23	11.92	34.5	32.45	10.59	12.2	6.94	4.3	86.47	-

KHANDEPAR LAKE, BICHOLIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	31	29	26	27	27	28	30	29	27	28	29	-
2	Dissolved Oxygen(mg/l)	7.1	5.8	4.1	6.6	5.3	6.6	7.7	5.8	5.7	3.4	5.6	4.3	-
3	pH	5.68	5.67	5.69	6.81	6.86	5.5	5.50	5.37	8.12	5.66	6.04	6.69	6-8.5
4	Conductivity(µs/cm)	68.06	57.72	69.77	89.78	77.91	1327.0	73.99	99.73	52.63	70.73	56.53	86.25	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.20	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	0.1	1.2	0.4	0.7	BDL	0.289	0.33	0.4	0.6	BDL	0.35	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.010	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.010	-
8	Total Coliform(MPN/100ml)	270	23	5400	3300	2200	2100	2200	2400	3500	1100	700	920	-
9	Fecal Coliform(MPN/100ml)	170	13	2400	2300	1700	1400	1700	790	2200	790	490	350	-
10	Fecal Streptococci (MPN/100ml)	79	9.2	110	110	120	110	130	140	170	94	110	430	-
11	Turbidity(NTU)	1.14	1.11	18.59	1.29	0.63	1.42	1.54	1.31	2.45	1.86	2.18	1.43	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	16	26	18	20.0	24.0	20.0	22.0	24.0	14.0	18.0	22.0	30.0	-
14	Chlorides(mg/l)	7.5	13	15.16	10.0	10.5	7.5	7.49	14.0	9.0	11.49	13.49	21.5	-
15	COD(mg/l)	4	8	4	4.0	4.0	6.0	6.0	6.0	10.0	14.0	4.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	0.6	1.12	0.56	1.68	1.12	2.24	1.12	1.12	1.12	1.12	0.56	-
17	Ammonia (mg/l)	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	-
18	Total Hardness(mg/l)	12	28	20	20.0	26.0	38.0	22.0	22.0	14.0	20.0	20.0	60.0	-
19	Calcium(mg/l)	4	5.61	4.01	5.61	9.6	7.21	4.0	4.0	3.2	4.0	4.81	15.2	-

20	Magnesium(mg/l)	0.5	5.44	2.43	1.5	0.5	4.86	2.916	2.9	1.5	2.43	7.97	5.3	-
21	Sulphate(mg/l)	14.5	8.5	7.54	5.4	3.7	9.95	1.451	2.4	3.0	6.47	3.79	3.3	-
22	Sodium(mg/l)	34.9	10.8	10.8	12.5	5.8	11.9	40.0	63.7	22.3	20.2	24.8	27.9	-
23	Total Dissolved Solids(mg/l)	41	33.0	47.0	56.0	42.0	849.0	41.0	59.0	30.0	40.0	31.0	55.0	-
24	Total Fixed Solids(mg/l)	16	11.0	28.0	20.0	14.0	509.0	24.0	39.0	10.0	25.0	18.0	33.0	-
25	Total Suspended Solids(mg/l)	6	5.0	38.0	6.0	3.0	4.0	4.0	4.0	5.0	4.0	6.0	5.0	-
26	Phosphate(mg/l)	BDL	0.04	BDL	BDL	0.02	BDL	BDL	BDL	0.03	BDL	0.02	0.02	-
27	Boron(mg/l)	BDL	0.2	0.927	BDL	0.010	0.006	BDL	BDL	BDL	BDL	0.338	1.5	Max 2mg/l
28	Potassium(mg/l)	40.7	7.8	7.8	7.3	3.2	5.6	20.2	32.9	1.7	5.5	12.8	16.3	-
29	Flouride(mg/l)	BDL	BDL	BDL	BDL	0.2	0.2	0.451	0.49	0.3	0.4	0.332	BDL	-
30	SAR	23.28	4.6	6.01	6.7	2.6	4.84	21.51	34.29	14.60	11.27	13.50	8.70	Max 26.0
31	Percent Sodium (%)	-	-	-	73.69	47.1	59.13	89.70	93.33	83.7	79.99	84.78	68.23	-

BANASTARIM LAKE

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	30	29	27	28	28	30	30	30		31	-
2	Dissolved Oxygen(mg/l)	4.2	4.9	1.7	4.9	6.4	5.9	4.8	4.7	2.6	4.3	4.1	3.4	-
3	pH	7.24	7.4	6.5	7.58	6.41	6.42	6.01	6.68	6.83	6.94	7.03	7.05	6-8.5
4	Conductivity(µs/cm)	51050	53220.0	382.6	119.8	87.20	250.1	107.1	6745.0	509.7	20300.0	37050.0	51570.0	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	6.1	BDL	BDL	BDL	BDL	BDL	4.5	BDL	BDL	6.4	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.305	BDL	0.3	0.449	0.22	0.13	0.6	BDL	BDL	0.11	1.7	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.017	0.006	0.016	BDL	BDL	0.006	0.007	BDL	BDL	0.01	0.010	0.010	-
8	Total Coliform(MPN/100ml)	1300	490	460	920	540	3500	4700	4900	5400	2400	2800	170	-

9	Fecal Coliform(MPN/100ml)	790	230	230	220	170	790	1300	2300	2400	1700	1400	79	-
10	Fecal Streptococci (MPN/100ml)	110	79	70	130	94	130	170	130	240	210	220	40	-
11	Turbidity(NTU)	5.87	25	9.57	11.48	7.36	13.46	13.03	8.04	8.33	6.09	3.16	4.36	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	132	148	30	20.0	22.0	22.0	22.0	32.0	38.0	60.0	74.0	72.0	-
14	Chlorides(mg/l)	14245.6	16120.0	90.0	23.99	18.0	46.99	21.0	3349.0	129.5	9372.09	12121.20	16494.89	-
15	COD(mg/l)	-	-	22	4.0	4.0	8.0	8.0	-	16.0	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.54	1.68	1.68	1.12	1.68	1.68	1.12	0.56	1.12	1.12	1.12	-
17	Ammonia (mg/l)	0.05	0.12	BDL	BDL	BDL	0.08	0.22	0.07	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	7200	5000	50	22.0	18.0	28.0	34.0	2400.0	60.0	3800.0	4000.0	6600.0	-
19	Calcium(mg/l)	641.3	721.4	7.2	5.61	3.2	4.0	4.0	160.3	12.8	721.44	481.0	640.28	-
20	Magnesium(mg/l)	1360.8	777.6	7.8	1.944	2.4	4.4	5.8	486.0	6.8	486.0	680.4	1215.0	-
21	Sulphate(mg/l)	2598	1817.3	13.7	8.319	4.4	13.1	6.0	78.6	10.0	716.85	1505.3	2373.14	-
22	Sodium(mg/l)	7375	4650	4647	30.5	33.3	34.9	21.2	2439.2	48.0	5675.0	1077.0	8625.0	-
23	Total Dissolved Solids(mg/l)	28588	32996	245	67.0	55.0	146.0	69.0	4047.0	311.0	11571.0	24377.0	28832.0	-
24	Total Fixed Solids(mg/l)	17152	20787.0	147.0	40.0	23.0	50.0	23.0	1619.0	211.0	6942.0	8133.0	17299.0	-
25	Total Suspended Solids(mg/l)	15	28	15	25.0	12.0	28.0	19.0	12.0	17.0	6.0	12.0	9.0	-
26	Phosphate(mg/l)	0.028	0.02	0.03	0.062	BDL	BDL	BDL	0.03	0.02	0.14	BDL	0.03	-
27	Boron(mg/l)	1.137	1.89	0.4	BDL	0.007	0.019	0.020	0.66	BDL	0.106	0.4	1.3	Max 2mg/l
28	Potassium(mg/l)	5775	1625	1620	20.8	7.7	13.9	9.3	1134.0	24.3	3625.0	201.5	3550.0	-
29	Flouride(mg/l)	1.155	1.59	BDL	BDL	BDL	BDL	0.1	BDL	0.3	BDL	1.2	1.2	-
30	SAR	233.1	169.85	1697.39	15.69	19.8	17.1	75.61	135.69	15.33	231.0	44.7	297.92	Max 26.0
31	Percent Sodium (%)	-	-	-	87.16	87.9	85.34	9.6	84.7	78.67	88.51	52.3	87.90	-

XELDEM LAKE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	2.2	29	29	28	29	30	30	30	29	30	-
2	Dissolved Oxygen(mg/l)	2.2	5.2	0.72	2.3	2.7	1.3	2.8	2.1	6.2	6.7	7.0	5.3	-
3	pH	6.2	6.07	30.0	6.75	6.40	6.09	6.44	6.54	8.27	6.81	6.8	6.87	6-8.5
4	Conductivity(µs/cm)	76.93	78	4.8	76.11	67.80	76.04	131	130.1	236.8	95.77	98.56	79.45	Max 2250 µs/cm
5	BOD(mg/l)	6.1	BDL	4.4	4.8	3.2	5.2	3.5	4.8	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	1.0	BDL	13.3	0.040	BDL	0.130	BDL	BDL	0.3	1.62	0.8	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	7.4	0.010	BDL	BDL	BDL	0.04	BDL	BDL	0.024	0.025	-
8	Total Coliform(MPN/100ml)	5400	9200	52.0	330	790	3500	1300	2400	2600	2700	2300	920	-
9	Fecal Coliform(MPN/100ml)	3500	5400	18.0	130	490	1300	790	1300	1300	1700	1300	540	-
10	Fecal Streptococci (MPN/100ml)	280	350	101.0	49	70	130	170	220	110	130	140	70	-
11	Turbidity(NTU)	11.54	10.21	0.05	4.98	5	3.24	1.15	100.0	89.5	18.68	79.4	35.9	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	24.0	32	5.3	38.0	32.0	28.0	24.0	36.0	54.0	20.0	42.0	22.0	-
14	Chlorides(mg/l)	7.0	5.0	BDL	15	6.5	6.5	17.99	14.0	17.5	8.50	10.0	8.0	-
15	COD(mg/l)	18.0	8.0	3.45	16.0	20.0	20.0	16.0	16.0	10.0	12.0	10.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	0.56	2.2	1.7	1.1	1.7	0.56	1.12	1.13	2.24	1.68	2.24	-
17	Ammonia (mg/l)	BDL	BDL	0.72	BDL	0.06	0.03	0.190	BDL	0.30	BDL	0.06	BDL	-
18	Total Hardness(mg/l)	24.0	22.0	30.0	30.0	30.0	20.0	34.0	52.0	36.0	42.0	20.0	20.0	-

19	Calcium(mg/l)	4.008	6.41	4.8	10.42	4.8	4.0	8.02	9.62	8.8	7.21	7.2	8.02	-
20	Magnesium(mg/l)	3.4	BDL	4.4	BDL	4.4	2.4	3,402	6.80	3.4	5.83	0.5	BDL	-
21	Sulphate(mg/l)	5.0	4.8	13.3	12.91	6.4	5.1	8,320	23.08	31.2	3.45	8.5	7.59	-
22	Sodium(mg/l)	3.2	7.9	7.4	6.3	7.1	10.1	45.6	9.8	43.4	21.8	31.8	40.8	-
23	Total Dissolved Solids(mg/l)	45.0	49.0	52.0	42.0	43.0	47.0	73.0	85.0	152.0	63.0	63.0	49.0	-
24	Total Fixed Solids(mg/l)	14.0	28.0	18.0	25.0	26.0	19.0	44.0	51.0	51.0	47.0	38.0	33.0	-
25	Total Suspended Solids(mg/l)	12.0	19.0	101.0	2.0	8.0	4.0	5.0	99.0	6.0	26.0	26.0	48.0	-
26	Phosphate(mg/l)	0.01	BDL	0.05	BDL	0.02	0.27	0.112	0.16	0.07	0.11	0.04	0.191	-
27	Boron(mg/l)	BDL	1.4	0.4	BDL	0.007	BDL	0.003	0.011	BDL	BDL	0.5	0.48	Max 2mg/l
28	Potassium(mg/l)	0.9	5.9	5.3	4.4	5.6	2.1	22.8	7.7	32.2	2.6	15.6	9.3	-
29	Flouride(mg/l)	BDL	0.2	BDL	BDL	BDL	BDL	0.500	BDL	BDL	BDL	BDL	0.207	-
30	SAR	1.66	3.98	3.45	2.64	3.3	5.6	19.08	3.42	17.56	8.55	16.21	20.38	Max 26.0
31	Percent Sodium (%)	-	-	-	77.28	58	65.5	85.69	51.59	86.1	65.17	86.03	86.20	-

NANDA LAKE

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	29	29	29	29	28	29	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	4.8	6.7	5.3	6	6.1	6.2	6.7	6.0	5.9	7.9	7.4	5.2	-
3	pH	6.49	6.68	6.8	6.94	6.72	6.29	7.01	7.87	6.91	6.91	6.5	6.76	6-8.5
4	Conductivity(µs/cm)	54.67	80	67.95	124.80	69.40	85.93	101	78.84	63.71	70.34	61.8	86.18	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	0.2	BDL	0.16	BDL	BDL	0.7	BDL	0.2	1,080	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.014	0.008	0.015	0.013	0.007	0.01	0.005	BDL	0.015	0.020	-
8	Total Coliform(MPN/100ml)	1100	2100	3500	5400	3500	4900	3500	1700	2100	2400	2000	920	-

9	Fecal Coliform(MPN/100ml)	490	1400	1300	1700	2400	2300	2400	1100	1400	1300	1100	130	-
10	Fecal Streptococci (MPN/100ml)	110	220	140	170	140	490	220	140	200	220	170	94	-
11	Turbidity(NTU)	5.51	5.98	13.73	17.35	29.10	26.50	9.80	11.55	36.1	4.56	7.7	4.47	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	22.0	28	24.0	28.0	28.0	22.0	26.0	26.0	20.0	20.0	26.0	18.0	-
14	Chlorides(mg/l)	4.5	8.5	9.50	10.00	5.00	5.00	10.49	8.00	6.99	6.0	8.0	7.50	-
15	COD(mg/l)	8.0	10.0	4.0	10.0	8.0	10.0	4.0	6.0	8.0	14.0	6.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.12	1.7	0.6	1.7	1.7	1.68	2.24	1.12	1.12	1.68	1.68	-
17	Ammonia (mg/l)	BDL	0.05	0.17	0.08	0.20	0.03	BDL	BDL	BDL	BDL	0.08	0.391	-
18	Total Hardness(mg/l)	20.0	28.0	28.0	24.0	22.0	22.0	24.0	26.0	64.0	26.0	26.0	20.0	-
19	Calcium(mg/l)	4.8	8.82	5.6	5.6	4.8	4.8	5.61	4.81	4.8	4.81	4.8	4.81	-
20	Magnesium(mg/l)	BDL	BDL	3.4	2.4	2.4	2.4	2.43	3.40	12.6	3.40	3.4	BDL	-
21	Sulphate(mg/l)	BDL	7.36	5.6	8.6	4.9	4.3	5567	22.03	9.50	3.09	3.5	4.21	-
22	Sodium(mg/l)	20.3	5.7	5.5	8.6	5.0	2.2	49.2	4.3	43.9	26.9	24.2	40.2	-
23	Total Dissolved Solids(mg/l)	34.0	51.0	39.0	80.0	44.0	53.0	57.0	48.0	42.0	43.0	39.0	52.0	-
24	Total Fixed Solids(mg/l)	22.0	30.0	14.0	32.0	26.0	22.0	34.0	28.0	13.0	33.0	23.0	36.0	-
25	Total Suspended Solids(mg/l)	9.0	15.0	26.0	22.0	34.0	18.0	12.0	12.0	16.0	3.0	10.0	6.0	-
26	Phosphate(mg/l)	0.02	BDL	0.03	BDL	0.05	0.22	0.02	0.03	0.03	BDL	0.02	0.149	-
27	Boron(mg/l)	0.98	1.1	0.3	BDL	0.0	BDL	BDL	0.023	BDL	BDL	0.5	0.59	Max 2mg/l
28	Potassium(mg/l)	14.2	3.6	3.3	4.2	3.7	1.1	24.6	2.6	3.0	0.4	3.2	7.7	-
29	Flouride(mg/l)	BDL	0.20	BDL	0.5	BDL	BDL	BDL	BDL	BDL	BDL	0.2	BDL	-
30	SAR	11.07	2.51	2.6	4.3	2.6	1.2	24.54	2.12	14.86	13.25	11.94	21.88	Max 26.0
31	Percent Sodium (%)	-	-	-	61.4	54.7	31.3	90.18	45.67	72.90	76.88	76.94	87.64	-

COTTOMBI LAKE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	29	29	28	28	29	30	30	30	29	30	-
2	Dissolved Oxygen(mg/l)	4.4	4.8	2.3	2.8	4.8	4.8	5.8	5.0	7.0	4.6	5.8	4.9	-
3	pH	6.51	6.35	7.23	6.93	6.47	6.33	6.72	7.38	7.5	6.59	6.4	6.80	6-8.5
4	Conductivity(µs/cm)	98.61	70	106.9	70.0	59.5	60.0	79	159.2	87.11	72.44	75.8	67.10	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	5.7	5.8	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2	BDL	BDL	0.1	BDL	BDL	BDL	BDL	BDL	0.9	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.007	BDL	BDL	BDL	BDL	0.005	0.011	BDL	0.035	BDL	-
8	Total Coliform(MPN/100ml)	700	490	1300	3500	940	5400	5400	2200	2600	2400	1300	140	-
9	Fecal Coliform(MPN/100ml)	460	330	490	790	460	1300	2200	1700	1700	1400	780	110	-
10	Fecal Streptococci (MPN/100ml)	280	140	27	280	110	140	240	140	210	170	210	120	-
11	Turbidity(NTU)	6.21	9.18	14.84	3.92	5.9	3.13	2.64	2.81	10.6	6.83	8.3	4.70	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.0	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	28	30	38.0	28.0	28.0	20.0	24.0	36.0	22.0	22	28.0	22.0	-
14	Chlorides(mg/l)	12.99	4.0	13.0	7.5	5.5	6.5	8.49	15.0	11.5	6.0	15.0	6.50	-
15	COD(mg/l)	12.0	4.0	18.0	20.0	12.0	8.0	4.0	6.0	6.0	16	6.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	2.80	2.8	0.6	0.6	2.8	0.56	1.12	0.56	1.12	1.68	2.24	-
17	Ammonia (mg/l)	BDL	0.12	0.5	BDL	BDL	0.16	BDL	0.08	BDL	0.32	0.15	0.07	-
18	Total Hardness(mg/l)	20.0	28.0	26.0	26.0	30.0	38.0	24.0	44.0	26.0	28.0	16.0	20.0	-
19	Calcium(mg/l)	4.0	5.61	6.4	5.6	5.6	6.4	5.61	8.01	4.0	6.41	4.8	4.81	-

20	Magnesium(mg/l)	2.43	3.40	2.4	2.9	3.9	5.3	2.43	5.83	3.9	2.92	1.0	BDL	-
21	Sulphate(mg/l)	2.0	BDL	8.0	5.4	5.2	5.2	BDL	8.12	10.0	2.01	6.0	4.63	-
22	Sodium(mg/l)	7.6	5.3	5.8	11.2	5.1	10.4	57.7	10.6	41.5	27.6	23.2	39.5	-
23	Total Dissolved Solids(mg/l)	63.0	42.0	60.0	45.0	38.0	37.0	44.0	101.0	56.0	45.0	48.0	40.0	-
24	Total Fixed Solids(mg/l)	38.0	22.0	21.0	18.0	23.0	15.0	26.0	6.0	18.0	27	29.0	29.0	-
25	Total Suspended Solids(mg/l)	17.0	11.0	29.0	8.0	14.0	4.0	5.0	3.0	8.0	3.0	12.0	6.0	-
26	Phosphate(mg/l)	BDL	BDL	0.05	0.02	0.03	0.16	0.03	0.02	0.02	0.63	0.03	0.032	-
27	Boron(mg/l)	1.2	1.2	0.2	BDL	0.0	BDL	BDL	0.021	BDL	BDL	0.7	0.25	Max 2mg/l
28	Potassium(mg/l)	6.3	2.3	2.0	3.2	2.0	2.3	28.85	9.1	2.7	1.0	3.8	11.1	-
29	Flouride(mg/l)	0.3	0.3	BDL	0.3	0.3	BDL	0.282	BDL	BDL	BDL	0.3	BDL	-
30	SAR	4.23	2.5	2.76	5.4	2.3	4.3	28.94	4.03	20.89	12.78	13.65	21.50	Max 26.0
31	Percent Sodium (%)	-	-	-	62.8	42.8	51.9	91.59	58.74	84.8	75.40	82.37	88.23	-

PANCHAMI LAKE, PONDA

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	29	28	30	29	30	29	28	29	30	-
2	Dissolved Oxygen(mg/l)	6.6			5.6	7.2	7.5	7.7	7.2	5.2	6.7	8.5	5.9	-
3	pH	6.4			6.1	6.83	7.03	6.90	6.45	5.74	6.17	6.46	6.21	6-8.5
4	Conductivity(µs/cm)	78.14			113.20	34.13	1321.0	1301	34.66	63.97	62.9	58.30	68.96	Max 2250 µs/cm
5	BOD(mg/l)	BDL			BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL			0.42	0.1	BDL	BDL	BDL	0.25	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005			BDL	BDL	BDL	BDL	0.006	0.09	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	1700			1100	790	700	1300	940	1100	940	1100	1600	-

9	Fecal Coliform(MPN/100ml)	1300			780	490	460	780	490	700	490	490	540	-
10	Fecal Streptococci (MPN/100ml)	130			120	110	94	130	140	170	210	170	150	-
11	Turbidity(NTU)	8.7			2.4	1.42	2.14	1.32	2.42	3.73	9.78	2.37	2.39	-
12	Phenolphthalein Alkalinity(mg/l)	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	20			16.0	12.0	14.0	8.0	30.0	40.0	24.0	24.0	16.0	-
14	Chlorides(mg/l)	6.5			449.9	6.5	72.48	3.50	4.49	10.49	15.5	7.99	9.49	-
15	COD(mg/l)	8.0			10.0	4.0	8.0	6.0	6.0	6.0	10.0	8.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68			1.68	2.24	1.12	0.560	1.12	0.56	1.12	2.80	1.12	-
17	Ammonia (mg/l)	0.09			0.10	BDL	BDL	BDL	BDL	0.07	0.07	BDL	BDL	-
18	Total Hardness(mg/l)	50			36.0	20.0	112.0	16.0	24.0	50.0	34.0	16.0	16.0	-
19	Calcium(mg/l)	13.63			10.42	4.00	9.62	BDL	4.8	7.21	7.2	3.21	2.40	-
20	Magnesium(mg/l)	3.89			2.43	2.40	21.38	2.92	2.92	7.78	3.9	7.97	2.43	-
21	Sulphate(mg/l)	7.88			53.68	2.60	2.65	2.60	1.76	4.30	3.00	3,456	2.18	-
22	Sodium(mg/l)	4.2			11.2	22.3	34.0	34.4	30.1	12.0	25.2	19.1	41.2	-
23	Total Dissolved Solids(mg/l)	44			61.0	22.0	754.0	744.0	19.0	40.0	40.0	33.0	42.0	-
24	Total Fixed Solids(mg/l)	26			36.0	9.0	256.0	284.0	11.0	24.0	24.0	19.0	29.0	-
25	Total Suspended Solids(mg/l)	3			2.0	4.0	6.0	4.0	15.0	4.0	12.0	6.0	3.0	-
26	Phosphate(mg/l)	BDL			0.12	0.02	BDL	0.029	BDL	0.10	BDL	0.02	0.022	-
27	Boron(mg/l)	0.869			0.0	0.0	0.007	BDL	BDL	BDL	BDL	0.421	0.432	Max 2mg/l
28	Potassium(mg/l)	2.4			9.8	9.9	19.0	19.0	20.2	9.8	4.1	13.2	11.5	-
29	Flouride(mg/l)	0.327			0.01	0.30	BDL	BDL	0.464	BDL	0.4	0.393	BDL	-
30	SAR	0.16			4.42	12.40	8.64	22.90	15.32	4.38	10.70	11.9	26.58	Max 26.0
31	Percent Sodium (%)	-			62.04	85.40	63.1	92.21	86.69	59.26	72.52	86.25	91.60	-

BETAL TEMPLE LAKE, PONDA													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	30	27	29	28	29	29	30	29	28	29	30	-
2	Dissolved Oxygen(mg/l)	6.7	8.1	7.3	7.3	6.2	7.5	7.6	5.0	3.0	7.2	7.5	7.0	-
3	pH	6.85	7.24	6.8	6.35	7	6.25	7.05	6.23	5.99	6.33	6.59	7.30	6-8.5
4	Conductivity(µs/cm)	68.62	76	62.00	50.91	45.80	1329.0	1230	67.0	61.55	75.1	56.73	75.62	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	5.0	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2	BDL	0.28	0.5	BDL	BDL	BDL	BDL	0.1	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	0.012	BDL	BDL	0.005	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2200	1700	1300	1700	1100	1100	4900	1400	1700	790	5400	920.0	-
9	Fecal Coliform(MPN/100ml)	1300	1100	790	780	490	490	2300	460	700	490	2400	540.0	-
10	Fecal Streptococci (MPN/100ml)	130	110	110	130	110	130	110	170	220	130	140	540.0	-
11	Turbidity(NTU)	4.65	4.29	5.76	8.31	5.93	3.49	2.69	3.77	2.09	3.53	4.71	4.42	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	22.0	26	18.0	32.0	16.0	22.0	14.0	20.0	14.0	24.0	30.0	16.0	-
14	Chlorides(mg/l)	4.50	13.5	8.8	10.0	8.5	10.0	6.0	12.99	8.50	14.5	7.49	7.50	-
15	COD(mg/l)	4.0	8.0	4.0	8.0	4.0	6.0	10.0	8.0	18.0	8.0	4.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	2.8	2.24	0.56	2.24	0.56	1.68	1.68	1.68	0.56	0.56	0.56	-
17	Ammonia (mg/l)	BDL	0.03	0.11	BDL	BDL	BDL	0.27	BDL	BDL	0.05	BDL	BDL	-
18	Total Hardness(mg/l)	32.0	18.0	24.0	30.0	26.0	16.0	14.0	26.0	26.0	28.0	24.0	22.0	-
19	Calcium(mg/l)	4.81	4.0	4.81	6.41	4.80	3.2	4.01	5.61	8.02	4.8	4.01	3.21	-

20	Magnesium(mg/l)	4.86	1.9	2.91	3.4	3.4	2.0	BDL	2.92	1.46	3.9	13.94	3.40	-
21	Sulphate(mg/l)	3.18	2.2	4.54	3.70	2.40	2.4	4.98	1.87	4.61	4.2	7.24	6.10	-
22	Sodium(mg/l)	4.8	3.4	3.4	4.2	22.0	36.0	36.0	28.3	13.9	20.6	23.9	42.7	-
23	Total Dissolved Solids(mg/l)	42.0	49.0	40.0	13.0	28.0	851.0	742.0	37.0	35.0	49.0	32.0	47.0	-
24	Total Fixed Solids(mg/l)	25.0	29.0	24.0	8.0	11.0	511.0	504.0	22.0	21.0	30.0	20.0	32.0	-
25	Total Suspended Solids(mg/l)	2.0	8.0	26.0	3.0	11.0	9.0	3.0	12.0	2.0	5.0	15.0	10.0	-
26	Phosphate(mg/l)	BDL	0.02	0.02	0.07	0.02	BDL	0.022	BDL	BDL	BDL	0.020	0.024	-
27	Boron(mg/l)	0.850	BDL	0.76	BDL	0.02	0.009	0.023	BDL	BDL	BDL	0.438	0.442	Max 2mg/l
28	Potassium(mg/l)	2.7	2.6	2.6	3.1	7.5	19.3	19.3	12.8	11.6	9.1	13.0	11.1	-
29	Flouride(mg/l)	BDL	0.3	0.11	0.01	0.4	BDL	BDL	0.781	BDL	0.4	BDL	BDL	-
30	SAR	2.18	1.98	1.73	1.9	10.9	22.4	22.78	13.70	6.39	9.88	12.42	23.49	Max 26.0
31	Percent Sodium (%)	-	-	-	42.67	75.6	91.5	91.73	82.81	72.90	77.34	83.28	89.06	-

KARMALE LAKE, PONDA

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	sample was not collected as it was DRY	27	29	28	29	29	30	29	27	29	30	-
2	Dissolved Oxygen(mg/l)	6.7		6.9	6.7	6.3	6.3	7.3	5.4	4.3	4.4	6.0	4.6	-
3	pH	6.5		6.91	6.15	6.94	6.15	6.90	6.27	6.05	6.17	6.35	6.37	6-8.5
4	Conductivity(µs/cm)	57.89		85.47	64.00	38.82	1333.0	1231	51.12	80.88	53.7	56.72	71.39	Max 2250 µs/cm
5	BOD(mg/l)	BDL		BDL	BDL	1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL		BDL	BDL	0.2	0.3	0.254	BDL	0.10	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL		0.01	BDL	BDL	BDL	BDL	0.005	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2200		1300	1100	940	700	7000	490	470	490	2400	1600	-
9	Fecal Coliform(MPN/100ml)	1300		490	450	330	330	4900	230	270	230	1300	540	-

10	Fecal Streptococci (MPN/100ml)	110	220	170	130	110	460	130	170	140	240	280	-
11	Turbidity(NTU)	3.89	8.12	1.93	4.02	1.73	2.19	3.27	3.03	4.66	5.04	6.02	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	20	20.0	18.0	14.0	18.0	10.0	26.0	34.0	28.0	120.0	18.0	-
14	Chlorides(mg/l)	4.50	12.23	15.50	6.00	9.0	6.50	7.49	8.50	9.50	23.5	7.99	-
15	COD(mg/l)	8.0	10.0	8.0	4.0	6.0	4.0	8.0	6.0	10.0	4.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.12	1.12	1.68	0.56	1,121	0.56	2.24	1.12	1.12	0.56	-
17	Ammonia (mg/l)	0.11	0.139	BDL	BDL	BDL	0.06	BDL	BDL	0.08	BDL	BDL	-
18	Total Hardness(mg/l)	28	18.0	20.0	16.0	20.0	12.0	20.0	24.0	40.0	34.0	20.0	-
19	Calcium(mg/l)	5.61	3.21	5.61	4	5.6	1.60	4.01	6.41	4.00	4.01	3.21	-
20	Magnesium(mg/l)	3.4	2.43	1.46	BDL	BDL	BDL	2.43	1.94	7.30	5.83	2.92	-
21	Sulphate(mg/l)	3.95	14.19	2.48	2.50	2.3	2.71	2.46	4.27	3.4	7.24	3.97	-
22	Sodium(mg/l)	5.5	5.5	7.2	22.0	36.8	36.8	25.4	15.6	23.7	13.1	40.8	-
23	Total Dissolved Solids(mg/l)	37	56.0	37.0	24.0	773.0	755.0	28.0	51.0	34.0	31.0	45.0	-
24	Total Fixed Solids(mg/l)	22	34.0	22.0	10.0	525.0	531.0	16.0	30.0	20.0	19.0	31.0	-
25	Total Suspended Solids(mg/l)	2	39.0	2.0	8.0	5.0	6.0	12.0	3.0	7.0	25.0	5.0	-
26	Phosphate(mg/l)	BDL	0.03	0.14	0.02	BDL	0.033	BDL	0.02	BDL	0.02	BDL	-
27	Boron(mg/l)	0.933	0.8	BDL	0.023	0.008	BDL	BDL	BDL	BDL	0.407	BDL	Max 2mg/l
28	Potassium(mg/l)	2.6	2.6	4.7	8.6	18.4	18.4	12.8	13.4	4.4	12.3	8.6	-
29	Flouride(mg/l)	0.519	0.19	BDL	0.2	BDL	0.206	0.643	BDL	BDL	0.41	BDL	-
30	SAR	2.59	3.27	3.83	13.3	16.32	27.67	14.15	7.63	9.97	5.91	23.31	Max 26.0
31	Percent Sodium (%)	-	-	62.74	82.2	84.59	93.97	85.57	77.64	71.32	72.08	88.96	-

DHULPE LAKE, SHIRODA, PONDA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	sample was not collected as it was DRY	sample was not collected as it was DRY	28	27	28	28	28	30	29	30	30	LOCATION NOT ACCESSIBLE	-
2	Dissolved Oxygen(mg/l)			6.1	6.8	6.3	6.5	5.7	7.1	2.5	4.1	7.4		-
3	pH			6.6	7.33	6.44	6.24	6.50	6.76	6.02	6.0	7.46		6-8.5
4	Conductivity(µs/cm)			64.13	57.58	107.90	96.88	144	135.1	93.73	106.20	208.80		Max 2250 µs/cm
5	BOD(mg/l)			BDL	BDL	1.0	BDL	BDL	BDL	BDL	BDL	BDL		-
6	Nitrate Nitrogen as NO_3-N(mg/l)			1.7	0.1	BDL	BDL	0.4	BDL	BDL	BDL	BDL		-
7	Nitrite Nitrogen as NO_2-N mg/l			0.018	0.006	BDL	BDL	BDL	BDL	BDL	BDL	BDL		-
8	Total Coliform(MPN/100ml)			790	490	1400	1100	1100	1500	1300	3300	940		-
9	Fecal Coliform(MPN/100ml)			330	230	780	490	490	700	790	1300	490		-
10	Fecal Streptococci (MPN/100ml)			70	84	110	170	110	130	140	110	110		-
11	Turbidity(NTU)			28.2	17.3	2.5	1.76	4.69	20.3	1.30	5.19	5.87		-
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		-
13	Total Alkalinity(mg/l)			38.0	30.0	58.0	46.0	58.0	20.0	10.0	480.0	68.0		-
14	Chlorides(mg/l)			5.49	15.50	8.00	6.99	6.5	15.99	8.5	7.0	9.0		-
15	COD(mg/l)			8.0	4.0	8.0	4.0	6.0	6.0	8.0	8.0	6.0		-
16	Total Kjeldahl Nitrogen(mg/l)			1.12	2.8	0.56	2.80	0.50	0.56	1.12	1.12	1.12		-
17	Ammonia (mg/l)			0.22	BDL	BDL	BDL	0.05	BDL	BDL	0.15	BDL		-
18	Total Hardness(mg/l)			26.0	28.0	50.0	62.0	62.0	36.0	50.0	38.0	82.0		-
19	Calcium(mg/l)			8.02	5.61	6.40	8.02	4.8	7.21	6.4	5.6	14.43		-

20	Magnesium(mg/l)			BDL	3.4	8.3	10.21	12.2	4,374	8.3	5.832	11.18		-
21	Sulphate(mg/l)			4.88	7.20	0.70	BDL	BDL	5.05	4.9	BDL	4.81		-
22	Sodium(mg/l)			20.4	10.8	12.8	18.3	19.2	25.5	26.0	23.4	24.70		-
23	Total Dissolved Solids(mg/l)			43.0	39.0	60.0	51.0	95.0	75.0	59.0	67.0	133.0		-
24	Total Fixed Solids(mg/l)			23.0	24.0	20.0	31.0	32.0	45.0	24.0	22.0	79.0		-
25	Total Suspended Solids(mg/l)			19.0	13.0	4.0	7.0	15.0	15.0	4.0	10.0	10.0		-
26	Phosphate(mg/l)			0.04	0.06	0.04	BDL	BDL	BDL	0.04	BDL	0.03		-
27	Boron(mg/l)			1.0	BDL	0.0	0.003	BDL	BDL	BDL	BDL	1.10		Max 2mg/l
28	Potassium(mg/l)			11.4	4.6	6.1	3.0	8.7	12.6	21.3	1.3	17.0		-
29	Flouride(mg/l)			1.0	BDL	BDL	0.4	BDL	0.540	0.1	BDL	BDL		-
30	SAR			11.33	5.09	4.7	6.06	6.59	10.60	9.6	9.8	6.90		Max 26.0
31	Percent Sodium (%)			-	63.09	56.3	53.88	62.2	76.68	76.32	68.34	61.95		-

UDDEN LAKE, SHIRODA, PONDA

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	29	28	27	28	28	28	30	29	30	30	29	-
2	Dissolved Oxygen(mg/l)	4.5	3.8	6.4	6.8	7	6.8	7.3	6.8	6.4	6.3	5.5	4.0	-
3	pH	6.37	6.4	6.72	7.54	6.29	6.84	6.88	6.80	6.47	6.63	6.4	7.24	6-8.5
4	Conductivity(µs/cm)	87.95	90	75.2	48.16	57.85	25.23	87	75.43	67.50	62.70	125.6	85.02	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.4	0.2	0.1	0.1	BDL	BDL	BDL	0.1	0.8	0.2	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005	BDL	0.007	0.005	BDL	BDL	BDL	BDL	BDL	BDL	0.017	BDL	-
8	Total Coliform(MPN/100ml)	1100	3900	2400	2700	4900	5400	4600	2800	3500	5400	2400	1600	-

9	Fecal Coliform(MPN/100ml)	790	2700	790	1400	1300	2400	1700	1200	1300	2400	1300	540	-
10	Fecal Streptococci (MPN/100ml)	170	210	110	130	330	240	390	240	130	94	140	220	-
11	Turbidity(NTU)	11.16	12.1	12.65	29.3	5.55	4.96	4.14	7.05	4.82	5.08	9.12	8.43	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	50.0	34	30	18	26	26.0	26.0	18.0	20.0	24.0	14.0	18.0	-
14	Chlorides(mg/l)	5.99	18.0	8.0	5.5	8.0	5.99	8.0	5.49	9.5	7.0	22.49	11.0	-
15	COD(mg/l)	10.0	4.0	6.0	6.0	10.0	4.0	6.0	6.0	6.0	10.0	6.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	3.4	0.6	0.56	0.56	1.12	1.12	1.12	1.12	1.68	1.1	1.68	-
17	Ammonia (mg/l)	BDL	0.08	0.06	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	22.0	26.0	20.0	14.0	22.0	30.0	22.0	30.0	32.0	18.0	26.0	16.0	-
19	Calcium(mg/l)	5.61	4.8	7.2	4.0	4.0	8.02	7.21	6.41	6.4	6.4	3.2	4.8	-
20	Magnesium(mg/l)	1.944	3.4	BDL	BDL	2.9	2.43	BDL	3,402	3.88	0.486	4.4	BDL	-
21	Sulphate(mg/l)	3.78	3.6	9.1	3.7	3.1	2.21	2.81	2.21	3.7	4.0	16.51	8.1	-
22	Sodium(mg/l)	4.8	4.9	5.0	8.7	10.4	18.0	7.1	23.3	25.9	24.4	25.7	21.1	-
23	Total Dissolved Solids(mg/l)	49.0	60.0	45.0	31.0	31.0	16.0	52.0	42.0	43.0	41.0	82.0	51.0	-
24	Total Fixed Solids(mg/l)	29.0	20.0	18.0	19.0	10.0	9.0	31.0	25.0	17.0	13.0	27.0	20.0	-
25	Total Suspended Solids(mg/l)	25.0	8.0	10.0	16.0	11.0	9.0	7.0	10.0	7.0	11.0	12.0	15.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.03	BDL	BDL	BDL	BDL	0.03	BDL	BDL	BDL	-
27	Boron(mg/l)	1.265	0.2	0.2	BDL	0.006	0.005	BDL	BDL	BDL	BDL	0.300	BDL	Max 2mg/l
28	Potassium(mg/l)	3.5	3.4	3.5	5.5	5.3	3.0	2.1	12.4	20.3	1.8	3.3	2.3	-
29	Flouride(mg/l)	BDL	BDL	0.3	BDL	BDL	BDL	0.4	0.540	1.0	BDL	0.2	BDL	-
30	SAR	2.47	2.42	2.16	5.51	5.6	7.87	3.51	10.52	10.8	13.14	13.2	16.50	Max 26.0
31	Percent Sodium (%)	-	-	-	74.04	69.4	66.77	52.93	78.44	80	79.15	79.3	87.7	-

TARVALEM LAKE, SHIRODA, PONDA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	28	27	28	28	27	30	29	29	29	29	-
2	Dissolved Oxygen(mg/l)			6.2	6.7	5.9	6.2	5.4	6.7	5.6	6.5	7.2	5.6	-
3	pH			7.86	7.28	7.03	6.92	6.99	7.27	6.46	7.28	7.23	7.47	6-8.5
4	Conductivity(µs /cm)			58.2	35.8	56.8	34.96	74	95.86	53.26	149.80	99.45	106.10	Max 2250 µs/cm
5	BOD(mg/l)			BDL	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)			0.3	0.2	0.32	BDL	0.3	0.140	0.9	BDL	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l			BDL	BDL	0.007	BDL	BDL	0.015	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/ 100ml)			2400	460	1100	1300	1400	2100	2200	2800	2200	1600	-
9	Fecal Coliform(MPN/ 100ml)			790	330	460	790	780	940	1300	1700	1100	540	-
10	Fecal Streptococci (MPN/100ml)			130	94	94	130	170	220	280	220	170	430	-
11	Turbidity(NTU)			3.85	5.55	17.16	1.1	2.36	2.23	2.80	3.19	3.86	4.12	-
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)			30	20	18	18.0	26.0	16.0	10.0	32.0	30.0	14.0	-
14	Chlorides(mg/l)			8.5	4.5	8.0	6.49	10.0	8.99	10.0	20.0	16.49	22.0	-
15	COD(mg/l)			4.0	4.0	6.0	6.0	8.0	8.0	8.0	8.0	6.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)			0.60	0.56	2.24	0.56	1.12	0.56	0.56	1.12	1.12	1.12	-
17	Ammonia (mg/l)			0.08	BDL	0.11	BDL	0.08	BDL	BDL	BDL	0.14	BDL	-
18	Total Hardness(mg/l)			16.0	10.0	12.0	48.0	18.0	38.0	26.0	20.0	34.0	16.0	-
19	Calcium(mg/l)			3.2	1.6	4.0	4.01	4.0	8.02	8.0	4.8	9.62	2.4	-

20	Magnesium(mg/l)			BDL	BDL	BDL	9.23	1.9	4,374	BDL	1.9	2.43	2.43	-
21	Sulphate(mg/l)			3.1	2.2	6.4	BDL	3.1	5.59	6.6	6.7	6.48	10.3	-
22	Sodium(mg/l)			14.6	12.7	48.2	19.7	17.6	20.0	25.8	28.5	24.30	34.6	-
23	Total Dissolved Solids(mg/l)			35.0	23.0	35.0	22.0	48.0	53.0	34.0	97.0	63.0	64.0	-
24	Total Fixed Solids(mg/l)			14.0	14.0	14.0	13.0	16.0	31.0	14.0	32.0	37.0	26.0	-
25	Total Suspended Solids(mg/l)			6.0	6.0	25.0	7.0	11.0	8.0	5.0	7.0	4.0	8.0	-
26	Phosphate(mg/l)			BDL	BDL	0.03	BDL	BDL	BDL	0.05	BDL	0.12	BDL	-
27	Boron(mg/l)			0.2	BDL	0.0	0.006	BDL	BDL	BDL	BDL	1.53	BDL	Max 2mg/l
28	Potassium(mg/l)			5.2	9.1	14.5	2.9	7.2	8.5	20.2	7.1	16.80	4.1	-
29	Flouride(mg/l)			BDL	0.4	BDL	0.4	BDL	0.254	0.5	BDL	BDL	0.2	-
30	SAR			9.098	10.27	32.2	7.66	10.20	8.03	11.85	15.57	9.90	19.15	Max 26.0
31	Percent Sodium (%)			-	87.69	93.3	63.06	80.6	69.69	82.9	84.16	77.33	85.6	-

TARVALE (MOIGAL) LAKE, SHIRODA, PONDA

Sr. No	Parameters	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Limit for Class E as per CPCB classification based on designated best use
1	Temperature°C	29	29	28	27	28	28	27	30	29	29	29	29	-
2	Dissolved Oxygen(mg/l)	5.0	6.1	4.1	6.4	6.3	5.3	5.9	6.3	5.9	6.5	5.3	4.1	-
3	pH	5.76	6.97	5.51	6.76	6.99	7.13	6.18	7.02	6.27	6.02	6.64	6.78	6-8.5
4	Conductivity(µs /cm)	41.96	41	34.5	29.8	27.5	25.19	31	42.70	30.07	27.92	156.90	38.82	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.3	0.1	BDL	BDL	0.2	BDL	0.1	BDL	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/ 100ml)	230	1300	1300	790	2600	2800	1400	1100	1700	3500	1300	920	-

9	Fecal Coliform(MPN/100ml)	130	790	490	230	780	1300	680	490	1300	1700	790	350	-
10	Fecal Streptococci (MPN/100ml)	79	130	110	70	130	220	110	120	140	130	110	540	-
11	Turbidity(NTU)	5.1	5.0	1.46	2.69	1.24	BDL	0.96	2.26	1.39	2.71	2.44	2.31	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	30.0	24	18	8	14	12.0	14.0	14.0	12.0	16.0	20.0	10.0	-
14	Chlorides(mg/l)	4.99	44.5	7.5	5.5	11.5	3.99	11.5	10.0	7.0	6.5	12.0	10.0	-
15	COD(mg/l)	8.0	6.0	4.0	4.0	8.0	4.0	8.0	6.0	8.0	6.0	4.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	2.2	1.1	3.4	1.7	0.56	1.68	0.56	0.56	0.56	1.68	1.68	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	0.06	-
18	Total Hardness(mg/l)	30.0	28.0	12.0	10.0	6.0	16.0	18.0	20.0	12.0	10.0	30.0	8.0	-
19	Calcium(mg/l)	2.4	6.40	4.0	2.4	1.6	4.81	4.8	3.2	4.0	3.2	6.41	2.4	-
20	Magnesium(mg/l)	5.83	2.9	BDL	BDL	0.500	BDL	1.5	2.9	BDL	0.5	3.40	BDL	-
21	Sulphate(mg/l)	3.26	6.9	2.4	BDL	0.9	BDL	BDL	BDL	BDL	BDL	3.74	6.4	-
22	Sodium(mg/l)	3.9	3.9	4.0	11.4	6.2	19.2	15.1	7.6	25.6	23.1	30.30	18.5	-
23	Total Dissolved Solids(mg/l)	23.0	27.0	21.0	17.0	15.0	17.0	21.0	28.0	19.0	17.0	100.0	23.0	-
24	Total Fixed Solids(mg/l)	14.0	9.0	9.0	11.0	6.0	10.0	7.0	19.0	8.0	6.0	60.0	9.0	-
25	Total Suspended Solids(mg/l)	20.0	4.0	7.0	7.0	4.0	6.0	9.0	5.0	4.0	6.0	3.0	5.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.03	0.07	BDL	BDL	0.02	0.06	BDL	0.03	BDL	-
27	Boron(mg/l)	1.137	0.4	BDL	BDL	0.007	0.026	BDL	BDL	BDL	BDL	1.05	BDL	Max 2mg/l
28	Potassium(mg/l)	3.4	2.8	3.0	8.1	3.1	2.6	6.9	4.7	20.1	1.1	18.20	1.1	-
29	Flouride(mg/l)	BDL	0.4	0.3	BDL	0.2	0.3	BDL	1.3	0.3	0.3	BDL	BDL	-
30	SAR	1.92	1.8	2.66	8.78	6.1	11.29	8.53	4.35	17.08	16.98	13.68	20.77	Max 26.0
31	Percent Sodium (%)	-	-	-	85.26	81.7	79.04	77.8	66.85	91	86.74	83.18	92.5	-

TALAULIM (TALSAL) LAKE, PONDA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	29	27	29	28	28	27	30	29	30	30	30	-
2	Dissolved Oxygen(mg/l)	4.9	6	7.1	5.7	6.4	7.2	7.8	6.4	6.8	6.9	7.1	7.1	-
3	pH	6.1	6.05	6.78	6.26	7.02	5.94	6.5	6.07	6.20	6.80	7.51	7.20	6-8.5
4	Conductivity(µs /cm)	36.21	39	83.12	34.9	36.45	51.88	41	37.30	34.79	39.47	67.46	57.79	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.301	BDL	0.1	BDL	BDL	0.1	0.37	0.1	BDL	0.112	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.162	BDL	BDL	-
8	Total Coliform(MPN/ 100ml)	3500	1700	2400	1100	790	5400	1300	2400	2700	2400	2200	1600	-
9	Fecal Coliform(MPN/ 100ml)	1300	790	790	700	330	1300	780	790	1100	1300	1300	920	-
10	Fecal Streptococci (MPN/100ml)	220	220	220	120	94	70	130	150	220	280	220	350	-
11	Turbidity(NTU)	2.46	3.44	3.11	3.47	3.5	3.52	4.16	3.12	5.12	4.37	3.26	3.14	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	20.0	24	24	14	14	22.0	18.0	32.0	30.0	14.0	20.0	20.0	-
14	Chlorides(mg/l)	4	101.5	24.49	6	7	15.0	8.0	10.0	6.0	10.9	9.5	25.49	-
15	COD(mg/l)	BDL	8.0	10.0	6.0	4.0	2.0	10.0	8.0	6.0	8.0	6.0	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	2.2	1.12	0.6	1.68	2.24	2.24	0.56	1.68	1.68	2.24	1.12	-
17	Ammonia (mg/l)	0.062	BDL	BDL	BDL	0.05	0.22	0.19	BDL	BDL	0.06	BDL	0.05	-
18	Total Hardness(mg/l)	20.0	16.0	28.0	12.0	8.0	32.0	16.0	14.0	40.0	18.0	142.0	18.0	-
19	Calcium(mg/l)	4.81	3.20	8.016	4	2.4	8.02	4.8	4.0	4.01	5.6	46.5	5.6	-

20	Magnesium(mg/l)	1.94	1.9	1.944	BDL	0.500	2.92	1.0	BDL	7.29	BDL	6.32	BDL	-
21	Sulphate(mg/l)	2.000	2.2	3.856	3.500	2.600	5.45	2.2	5.4	4.41	6.1	2.39	4.86	-
22	Sodium(mg/l)	5.30	4.0	4.0	3.7	18.4	29.3	11.7	34.8	12.8	39.6	11.8	40.3	-
23	Total Dissolved Solids(mg/l)	23.0	25.0	53.0	22.0	24.0	33.0	27.0	24.0	22.0	24.0	37.0	32.0	-
24	Total Fixed Solids(mg/l)	13.0	15.0	31.0	9.0	8.0	19.0	8.0	14.0	13.0	BDL	22.0	19.0	-
25	Total Suspended Solids(mg/l)	2.0	10.0	2.0	5.0	9.0	4.0	17.0	7.0	5.0	7.0	10.0	12.0	-
26	Phosphate(mg/l)	BDL	0.03	0.025	BDL	0.05	BDL	BDL	BDL	BDL	BDL	0.02	BDL	-
27	Boron(mg/l)	1.45	1.05	0.649	BDL	0.008	0.120	0.010	0.108	BDL	0.0017	0.246	0.392	Max 2mg/l
28	Potassium(mg/l)	2.9	3.8	3.8	3.4	0.6	15.7	7.2	32.1	8.6	5.0	7.3	7.3	-
29	Flouride(mg/l)	BDL	0.3	BDL	0.4	0.4	BDL	BDL	0.2	BDL	0.3	BDL	BDL	-
30	SAR	2.88	2.49	1.79	2.5	15.3	6.99	6.88	22.05	5.39	21.83	2.30	22.23	Max 26.0
31	Percent Sodium (%)	-	-	-	61.2	86.8	56.14	76.6	93.07	64.44	87.1	26.56	87.87	-

MACASANA LAKE, MACASANA, CURTORIM

Sr. No	Parameters	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Limit for Class E as per CPCB classification based on designated best use
1	Temperature°C	30	30	28	27	28	27	28	29	29	29	29	29	-
2	Dissolved Oxygen(mg/l)	3.0	3.5	4.6	6.2	4.7	6.0	2.3	1.6	1.2	5.7	1.5	4.1	-
3	pH	7.27	6.8	6.39	8.11	7.7	6.63	6.46	6.64	6.71	7.10	6.40	7.79	6-8.5
4	Conductivity(µs /cm)	144.6	173	109.8	49.72	76.17	133.0	130	105.0	93.3	111.8	107.40	125.4	Max 2250 µs/cm
5	BOD(mg/l)	3.6	5.6	BDL	BDL	1.7	BDL	5.4	5.4	5.6	2.6	4.5	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	BDL	2.2	0.4	0.1	0.11	0.2	0.1	0.4	BDL	0.12	0.5	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005	BDL	0.01	0.009	BDL	BDL	BDL	0.006	0.011	BDL	0.01	BDL	-
8	Total Coliform(MPN/ 100ml)	490	320	240	330	1300	5400	4700	4000	5400	2800	5400	920	-

9	Fecal Coliform(MPN/100ml)	230	210	130	230	790	2400	1700	2700	1300	1400	2400	540	-
10	Fecal Streptococci (MPN/100ml)	70	68	49	84	130	110	140	130	170	110	130	49	-
11	Turbidity(NTU)	9.11	19.63	13.23	17.93	4.51	2.31	9.17	5.86	8.84	4.80	9.30	11.14	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	60.0	36	18.0	24.0	22.0	32.0	28.0	32.0	36.0	36.0	36.0	38.0	-
14	Chlorides(mg/l)	8.0	19.6	16.99	5.5	6.99	18.0	19.5	10.0	11.0	9.50	12.50	25.5	-
15	COD(mg/l)	20.0	20.0	6.0	4.0	8.0	10.0	18.0	18.0	18.0	14.0	16.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	2.8	1.12	1.68	1.12	1.12	1.68	0.56	1.12	2.80	0.56	1.68	2.8	-
17	Ammonia (mg/l)	BDL	0.236	0.46	BDL	0.06	0.12	0.32	0.06	0.06	0.05	BDL	0.06	-
18	Total Hardness(mg/l)	56.0	56.0	24.0	22.0	22.0	22.0	38.0	48.0	28.0	38.0	32.0	46.0	-
19	Calcium(mg/l)	16.8	8.82	5.61	4	4	5.6	4.0	10.4	5.6	6.41	5.61	8.0	-
20	Magnesium(mg/l)	3.4	8.263	2.43	2.9	2.92	1.9	6.8	5.3	3.4	5.35	4.37	6.3	-
21	Sulphate(mg/l)	6.3	11.008	13.74	9.9	5.5	5.8	10.5	4.5	4.6	BDL	10.80	7.2	-
22	Sodium(mg/l)	6.7	19.8	19.8	46	36.1	26.4	48.3	19.2	25.7	1.7	26.0	51.5	-
23	Total Dissolved Solids(mg/l)	88.0	115.0	69.0	32.0	43.0	72.0	78.0	59.0	57.0	67.0	61.0	83.0	-
24	Total Fixed Solids(mg/l)	37.0	69.0	41.0	19.0	24.0	24.0	47.0	20.0	23.0	48.0	36.0	24.0	-
25	Total Suspended Solids(mg/l)	15.0	19.0	13.0	22.0	10.0	5.0	15.0	12.0	11.0	23.0	18.0	8.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.02	BDL	BDL	BDL	0.31	0.03	0.02	0.05	BDL	-
27	Boron(mg/l)	0.3	0.84	0.8	BDL	0.019	0.010	BDL	BDL	BDL	BDL	1.36	0.7	Max 2mg/l
28	Potassium(mg/l)	3.0	16.7	16.7	6.8	22	9.5	41.2	6.1	2.4	7.7	14.60	4.9	-
29	Flouride(mg/l)	0.5	0.18	0.4	0.2	BDL	BDL	0.3	0.5	0.2	BDL	BDL	BDL	-
30	SAR	2.11	6.77	9.88	24.7	19.41	13.6	20.77	6.84	10.74	0.7	11.64	19.2	Max 26.0
31	Percent Sodium (%)	-	-	-	88.4	89.36	82.6	89.2	61.6	71.1	44.42	80.27	79.70	-

MAIMOLLEM LAKE, VASCO														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	28	31	28	27	28	28	28	30	29	30	30	30	-
2	Dissolved Oxygen(mg/l)	4.8	8.5	2.7	6.4	6.9	5.6	2.5	7.6	3.8	1.6	12.9	4.9	-
3	pH	7.13	9.53	7.41	8.29	8.02	9.34	7.98	9.26	7.77	7.4	7.48	8.11	6-8.5
4	Conductivity(µs/cm)	5151	4289	1888	572	373.2	626.8	583	674.4	3075.0	3228.0	9830.0	15280.0	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	3.6	BDL	1.5	BDL	3.2	BDL	4.6	3.6	2.5	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	2.431	0.249	0.9	1	4.5	0.3	2.5	0.08	BDL	0.3	2.5	0.10	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.073	0.012	0.033	0.183	0.133	0.017	0.017	BDL	BDL	0.032	0.044	0.012	-
8	Total Coliform(MPN/100ml)	3500	2200	920	1300	1100	1700	1400	5400	9200	4700	3500	1600	-
9	Fecal Coliform(MPN/100ml)	1700	1300	350	790	490	790	780	790	3500	3200	2400	920	-
10	Fecal Streptococci (MPN/100ml)	210	130	110	140	94	110	120	170	540	400	350	350	-
11	Turbidity(NTU)	23.1	1.52	52.1	18.9	16.84	56.1	42.30	232.0	36.5	44.9	9.35	5.06	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.0	BDL	-
13	Total Alkalinity(mg/l)	124.0	98	80.0	68.0	68.0	78.0	62.0	78.0	88.0	114.0	72.0	124.0	-
14	Chlorides(mg/l)	2999.1	1399.6	150	95.5	49	141.5	94.5	89.5	1299.6	1149.6	3448.90	6248.1	-
15	COD(mg/l)	-	10.0	20.0	12.0	16.0	10.0	16.0	10.0	18.0	20.0	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	2.24	3.92	1.68	2.24	2.24	1.68	1.68	2.24	3.4	1.7	2.20	-
17	Ammonia (mg/l)	1.701	BDL	0.43	0.13	1.65	0.42	0.10	0.06	0.33	2.72	1.69	BDL	-
18	Total Hardness(mg/l)	494.0	462.0	260.0	92.0	76.0	106.0	126.0	126.0	400.0	348.00	1600.0	2200.0	-
19	Calcium(mg/l)	52.91	50.0	48.1	23.3	19.2	23.3	36.1	35.3	47.3	48.1	240.5	240.5	-
20	Magnesium(mg/l)	87.97	81.65	34.0	8.3	6.8	11.7	8.7	9.2	68.5	55.4	243.0	388.8	-

21	Sulphate(mg/l)	299.38	84.701	85.7	17.3	19.5	28.0	65.9	1.4	62.2	77.1	501.8	781.2	-
22	Sodium(mg/l)	380	2275	2281.0	34.0	45.7	99.8	37.2	109.4	2090.0	136.7	328.8	588.5	-
23	Total Dissolved Solids(mg/l)	2884.0	2401.0	1156.0	366.0	244.0	401.0	388.0	385.0	1694.0	2082.0	6437.0	10018.0	-
24	Total Fixed Solids(mg/l)	1730.0	1441.0	480.0	220.0	81.0	241.0	129.0	130.0	575.0	693.0	2143.0	3335.0	-
25	Total Suspended Solids(mg/l)	32.0	32.0	27	21	29	30.0	84.0	90.0	60.0	18.0	44.0	14.0	-
26	Phosphate(mg/l)	0.191	0.036	0.41	0.16	0.19	0.03	0.03	0.16	0.04	0.6	0.1	BDL	-
27	Boron(mg/l)	1.827	1.272	BDL	0.03	0.02	0.041	1,142	BDL	0.139	0.61	BDL	0.7	Max 2mg/l
28	Potassium(mg/l)	170	1550	1556.0	26.2	34.6	37.1	12.3	50.7	100.0	23.5	74.1	112.0	-
29	Flouride(mg/l)	0.46	0.189	0.3	0.2	BDL	BDL	BDL	0.2	0.2	BDL	0.5	1.1	-
30	SAR	45.28	280.41	355.98	8.6	12.7	23.9	52.48	23.2	274.0	19.0	21.2	33.2	Max 26.0
31	Percent Sodium (%)	-	-	-	65.6	75.5	79.7	7.9	78.25	95	60.8	45.5	52.70	-
BANDOLEM LAKE, SANCOALE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	29	30	28	28	28	28	28	29	29	30	31	31	-
2	Dissolved Oxygen(mg/l)	3.6	4.1	2.5	1.4	4.1	4.1	5.1	4.1	5.0	6.0	5.1	4.8	-
3	pH	6.53	6.65	6.66	8.38	7.33	6.36	6.94	7.23	6.63	6.99	7.0	6.95	6-8.5
4	Conductivity(µs/cm)	11220.0	19420	1841.0	190.8	134.4	1762.0	233	1394.0	11690.0	20230.0	8626.0	17300.0	Max 2250 µs/cm
5	BOD(mg/l)	2.8	2.1	4.7	5.1	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	BDL	BDL	0.1	0.29	0.7	0.346	0.2	0.7	1.0	0.3	0.559	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.002	0.01	0.01	0.04	0.03	0.047	BDL	0.017	0.02	0.026	0.02	-
8	Total Coliform(MPN/100ml)	3500	3500	5400	2200	2400	2200	2400	2100	3500	5400	4900	540	-
9	Fecal Coliform(MPN/100ml)	1300	1700	2400	1700	790	700	490	1300	1300	2400	2300	220	-

10	Fecal Streptococci (MPN/100ml)	170	220	170	170	220	170	170	140	130	350	220	170	-
11	Turbidity(NTU)	12.37	13.21	11.36	10.68	12.96	3.19	5.65	7.69	7.9	4.47	7.1	4.46	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	74	96	88.0	26.0	28.0	34.0	32.0	42.0	38.0	58.0	34.0	56.0	-
14	Chlorides(mg/l)	2849.1	7093.5	572.37	40.50	31.49	116.5	36.99	349.89	4498.6	7397.7	3049.1	4998.5	-
15	COD(mg/l)	-	-	14.0	16.0	6.0	12.0	6.0	6.0	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.8	2.24	2.24	1.12	0.56	2.24	0.56	1.12	1.12	0.6	1.68	1.12	-
17	Ammonia (mg/l)	0.13	0.063	0.18	0.21	0.47	0.47	0.883	BDL	0.07	BDL	0.18	0.28	-
18	Total Hardness(mg/l)	1400.0	2100.0	194.0	36.0	32.0	56.0	102.0	148.0	1160.0	2120.0	960.0	3400.0	-
19	Calcium(mg/l)	240.5	168.34	20.84	9.6	8.02	12.8	3.21	13.6	432.9	432.9	96.2	400.8	-
20	Magnesium(mg/l)	194.4	408.24	34.5	2.92	2.92	5.8	22.84	27.7	19.4	252.7	175.0	583.2	-
21	Sulphate(mg/l)	311.9	4150.83	59.11	7.8	8.56	19.2	3,553	27.7	220.7	833.5	143.4	471.7	-
22	Sodium(mg/l)	1575.0	2500.0	2500	30.2	8.6	8.8	82	79.4	307.7	2730.0	275.2	5583.1	-
23	Total Dissolved Solids(mg/l)	7139.0	13011.0	1233.0	116.0	86.0	1128.0	130.0	926.0	7482.0	12340.0	5521.0	9688.0	-
24	Total Fixed Solids(mg/l)	2402.0	7807.0	739.0	80.0	51.0	677.0	78.0	308.0	4489.0	8267.0	3313.0	5812.0	-
25	Total Suspended Solids(mg/l)	44.0	10.0	34.0	19.0	3.0	8.0	6.0	12.0	10.0	9.0	9.0	11.0	-
26	Phosphate(mg/l)	0.02	BDL	0.059	0.02	0.033	BDL	BDL	0.04	0.02	0.020	0.03	0.03	-
27	Boron(mg/l)	1.1	1.942	0.44	BDL	0.029	0.143	0.006	0.026	1,158	0.02	1.6	0.420	Max 2mg/l
28	Potassium(mg/l)	450.0	1538.0	1538	12.8	7.2	3.1	41.0	37.2	74.6	1372.0	120.0	2791.6	-
29	Flouride(mg/l)	0.6	0.676	BDL	BDL	BDL	BDL	BDL	BDL	0.7	1.2	0.5	0.619	-
30	SAR	106.81	147.24	475.23	12.07	3.68	2.9	22.72	17.47	20.46	147.5	23.64	251.71	Max 26.0
31	Percent Sodium (%)	-	-	-	77.45	59.07	38.9	82.52	73.8	45.81	85.69	59.31	89.49	-

DURGA LAKE, CHINCHINIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	28	27	28	27	28	29	30	28	30	32	-
2	Dissolved Oxygen(mg/l)	2.8	6.2	5.8	5.7	6.2	5.9	5.8	4.2	4.8	2.4	5.3	5.1	-
3	pH	6.7	7.14	7.36	7.85	7.72	6.91	6.73	6.65	6.91	6.82	7.32	7.5	6-8.5
4	Conductivity(µs/cm)	798.5	28980	30280.0	130.3	62.1	309.5	2716	165.4	251.2	330.1	444.30	692.3	Max 2250 µs/cm
5	BOD(mg/l)	4.8	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	3.6	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.1	BDL	BDL	0.1	0.1	0.20	0.1	0.2	0.11	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.005	0.01	0.007	0.006	0.006	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2800	1700	2400	3500	2400	330	1300	1700	2100	2200	1300	1600	-
9	Fecal Coliform(MPN/100ml)	1300	1300	790	1300	1300	230	790	1100	1700	1300	780	920	-
10	Fecal Streptococci (MPN/100ml)	220	110	170	210	170	110	150	210	260	110	110	540	-
11	Turbidity(NTU)	17.78	5.8	8.97	22.2	15.1	10.44	13.99	719.1	10.14	9.82	10.52	20.9	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	68	104	102.0	22.0	28.0	44.0	36.0	60.0	58.0	64.0	60.0	90.0	-
14	Chlorides(mg/l)	199.3	9747.0	10596.7	22.0	6.0	45.5	849.7	33.5	11.0	66.5	89.97	135.0	-
15	COD(mg/l)	20.0	-	-	10.0	4.0	10.0	12.0	6.0	8.0	18.0	14.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	2.2	0.56	1.12	2.80	0.56	0.56	1.68	2.24	1.12	1.1	1.1	1.68	-
17	Ammonia (mg/l)	BDL	BDL	0.10	0.08	0.05	BDL	0.17	0.06	BDL	BDL	BDL	0.18	-
18	Total	76.0	2100.0	3420.0	28.0	24.0	62.0	272.0	70.0	54.0	114.00	88.0	92.0	-

	Hardness(mg/l)													
19	Calcium(mg/l)	9.6	400.8	240.5	6.4	8.0	14.4	23.3	12.0	9.6	6.4	12.02	14.4	-
20	Magnesium(mg/l)	12.60	267.3	685.3	2.9	BDL	6.3	52.0	9.7	7.3	23.8	14.09	13.6	-
21	Sulphate(mg/l)	2.40	1148.23	1590.8	15.5	12.0	14.5	102.8	10.5	BDL	6..0	47,232	3.7	-
22	Sodium(mg/l)	81.4	1106.0	1109.0	4.3	40.9	35.0	2090.0	27.5	27.3	27.3	45.9	73.7	-
23	Total Dissolved Solids(mg/l)	479.0	16228.0	18471.0	87.0	35.0	182.0	1738.0	109.0	167.0	198.0	267.0	443.0	-
24	Total Fixed Solids(mg/l)	192.0	9736.0	12745.0	52.0	21.0	127.0	1043.0	36.0	55.0	79.0	106.0	266.0	-
25	Total Suspended Solids(mg/l)	24.0	20.0	19.0	36.0	30.0	16.0	16.0	10.0	12.0	12.0	15.0	18.0	-
26	Phosphate(mg/l)	BDL	0.077	BDL	0.03	0.037	0.02	BDL	0.03	BDL	0.04	BDL	BDL	-
27	Boron(mg/l)	0.3	1.744	1.52	BDL	0.01	0.101	0.102	BDL	BDL	0.012	0.3	0.5	Max 2mg/l
28	Potassium(mg/l)	42.4	132.6	153.9	1.9	20.45	19.7	1920.0	16.2	6.4	12.3	18.1	14.4	-
29	Flouride(mg/l)	BDL	0.921	1.12	BDL	0.373	0.2	0.5	BDL	0.3	BDL	0.3	0.3	-
30	SAR	24.41	60.51	51.55	1.99	19.29	12.62	340.73	8.3	9.39	7.0	12.7	19.68	Max 26.0
31	Percent Sodium (%)	-	-	-	39.95	87	78.06	98.16	66.77	66.61	56.7	71.0	75.86	-

SAPU TOLLEM (TOLLEA BANDAR), VELIM

Sr. No	Parameters	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Limit for Class E as per CPCB classification based on designated best use
1	Temperature°C	30	30	28	26	28	27	28	29	30	28	30	32	-
2	Dissolved Oxygen(mg/l)	3.5	5.7	6.6	6.7	6.7	5.8	7.9	4.6	5.7	5.4	4.6	2.9	-
3	pH	6.3	6.74	7.3	7.92	7.7	6.40	6.94	6.70	6.43	6.85	6.88	7.1	6-8.5
4	Conductivity(µs/cm)	87.8	102	95.86	55.30	53.38	165.4	126	108.00	111.00	113.50	114.0	226.2	Max 2250 µs/cm
5	BOD(mg/l)	3.6	BDL	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	3.5	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.9	0.2	BDL	0.2	0.1	0.2	0.1	0.2	0.13	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.021	0.007	0.007	0.006	0.005	BDL	BDL	BDL	BDL	BDL	-

8	Total Coliform(MPN/100ml)	490	2800	1700	2400	1100	2200	1700	2200	3400	5400	5400	1600	-
9	Fecal Coliform(MPN/100ml)	330	1700	790	1300	790	1300	1100	1700	1700	2400	2400	540	-
10	Fecal Streptococci (MPN/100ml)	110	150	23	94	70	170	200	170	94	240	110	350	-
11	Turbidity(NTU)	6.82	7.22	52.5	13.91	19.08	15.83	25.40	10.99	6.02	5.13	4.92	7.5	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	24	42	20	18	22	28.0	28.0	58.0	30.0	32.0	28.0	54.0	-
14	Chlorides(mg/l)	8.0	15.5	18.0	7.0	6.5	12.5	14.0	22.0	14.0	13.5	15,495	39.0	-
15	COD(mg/l)	18.0	6.0	10.0	4.0	6.0	10.0	12.0	6.0	8.0	6.0	12.0	16.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	0.6	2.24	2.24	1.12	1.12	1.68	1.68	2.8	1.7	1.1	1.12	-
17	Ammonia (mg/l)	0.07	BDL	0.73	0.05	0.078	0.09	0.13	0.11	BDL	BDL	BDL	0.08	-
18	Total Hardness(mg/l)	24.0	24.0	14.0	18.0	16.0	34.0	36.0	42.0	28.0	88	102.0	56.0	-
19	Calcium(mg/l)	5.6	5.6	4.8	4.8	5.61	7.2	6.4	6.4	6.4	7.2	7.2	9.6	-
20	Magnesium(mg/l)	2.4	2.4	BDL	BDL	BDL	3.9	4.9	6.3	2.9	17	20.4	7.8	-
21	Sulphate(mg/l)	2.8	8.7	17.4	9	12	28.1	11.3	8.1	2.9	6.3	22.4	2.8	-
22	Sodium(mg/l)	27.7	38.5	36.5	10.3	31.5	23.8	32.1	27.4	22.2	21	24.3	40.1	-
23	Total Dissolved Solids(mg/l)	53.0	62.0	61.0	34.0	30.0	101.0	80.0	72.0	73.0	68.0	68.0	145.0	-
24	Total Fixed Solids(mg/l)	21.0	25.0	37.0	14.0	18.0	71.0	48.0	23.0	24.0	27.0	27.0	87.0	-
25	Total Suspended Solids(mg/l)	10.0	6.0	68.0	11.0	35.0	19.0	21.0	5.0	14.0	8.0	9.0	15.0	-
26	Phosphate(mg/l)	BDL	BDL	0.04	0.03	0.031	0.02	BDL	0.03	BDL	0.02	0.02	BDL	-
27	Boron(mg/l)	BDL	BDL	0.6	BDL	0.0	0.014	0.018	0.008	BDL	0.02	0.3	0.5	Max 2mg/l
28	Potassium(mg/l)	24.7	32.4	30.4	4.9	15.8	13.6	27.5	17.2	2.6	9.8	3.9	6.0	-
29	Flouride(mg/l)	BDL	BDL	BDL	BDL	0.331	BDL	0.3	BDL	BDL	BDL	0.3	BDL	-
30	SAR	13.84	19.2	22.42	5.8	18.04	9.16	13.52	10.86	10.3	6.0	6.5	13.60	Max 26.0
31	Percent Sodium (%)	-	-	-	70.5	89.04	73.48	84.1	77.8	72.73	56.0	50.5	72.60	-

ORLIM LAKE, ORLIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	28	29	29		29	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.7	8.1	7.7	5.4	4.7		7.7	4.8	6.4	1.7	8.0	7.3	-
3	pH	6.93	8.05	7.95	6.62	7.81		7.8	6.7	6.77	7.70	7.44	7.69	6-8.5
4	Conductivity(µs/cm)	228.2	238	235.1	132.5	144.5		235	151.2	231.2	259.9	232.3	240.5	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.7		BDL	BDL	BDL	3.6	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	1.1	0.1	BDL	0.02	0.11		BDL	0.03	0.3	0.1	0.53	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.928	0.086	0.033	BDL	0.005		0.024	BDL	0.010	BDL	0.016	0.032	-
8	Total Coliform(MPN/100ml)	330	270	390	320	780		1300	1700	1300	1300	2200	1600	-
9	Fecal Coliform(MPN/100ml)	130	170	220	220	450		780	1100	490	780	1100	920	-
10	Fecal Streptococci (MPN/100ml)	49	78	70	79	92		110	140	130	130	460	540	-
11	Turbidity(NTU)	23.9	58.5	24.6	1.81	7.61		2.08	10.06	3.2	53.0	36.5	41.5	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	0		BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	46.0	36	28.0	30.0	40.0		28.0	42.0	50.0	114.0	28.0	46.0	-
14	Chlorides(mg/l)	27.5	34.9	33.99	13.5	17		28.99	21.5	30.99	22.0	31.5	27.5	-
15	COD(mg/l)	10.0	6.0	10.0	14.0	6.0		10.0	12.0	10.0	18.0	8.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	3.4	2.24	0.56	1.12	L	2.24	1.68	1.1	1.68	1.68	0.56	-
17	Ammonia (mg/l)	0.69	0.25	0.075	BDL	BDL	O	0.09	0.05	0.06	0.55	0.09	0.08	-
18	Total Hardness(mg/l)	22.0	44.0	58.0	38.0	88.0	C	62.0	38.0	82.0	116.0	74.0	82.0	-
19	Calcium(mg/l)	5.6	10.4	14.43	11.20	16.00	A	16.8	8.0	28.9	35.3	12.0	12.8	-
20	Magnesium(mg/l)	1.9	4.4	5.346	2.43	11.7	T	4.9	4.3	2.4	6.8	10.7	12.2	-

21	Sulphate(mg/l)	16.0	25.1	49.41	16.00	14.70	I	56.1	7.0	7.0	19.7	53.7	69.7	-
22	Sodium(mg/l)	10.2	33.9	34.8	10.2	8.3	O	31.8	8.5	8.9	27.6	31.4	32.8	-
23	Total Dissolved Solids(mg/l)	145.0	151.0	132.0	79.0	87.0	N	138.0	89.0	139.0	166.0	139.0	158.0	-
24	Total Fixed Solids(mg/l)	49.0	50.0	79.0	55.0	35.0		55.0	64.0	56.0	100.0	56.0	94.0	-
25	Total Suspended Solids(mg/l)	53.0	25.0	35.0	9.0	6.0	N	6.0	13.0	6.0	29.0	40.0	58.0	-
26	Phosphate(mg/l)	BDL	BDL	0.134	BDL	0.030	O	0.14	0.03	0.03	0.03	BDL	0.02	-
27	Boron(mg/l)	0.2	BDL	0.685	BDL	0.010	T	BDL	0.012	BDL	0.00774	0.8	0.9	Max 2mg/l
28	Potassium(mg/l)	2.9	29.1	25.0	3.9	4.2		24.0	3.6	4.6	7.7	11.4	23.1	-
29	Flouride(mg/l)	1.2	BDL	0.278	BDL	0.04	A	0.3	0.2	0.2	0.4	0.4	BDL	-
30	SAR	5.25	12.50	11.07	4.9	2.2	C	9.7	3.43	2.3	6.02	9.3	9.28	Max 26.0
31	Percent Sodium (%)	-	-	-	52.56	31.1	C	72.01	49.59	30.1	45.62	65.33	69.12	-
VODLE TOLLEM, BENAULIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	28	29	29	29	28	30	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	3.0	0.3	3.0	4.7	3.1	3.0	3.0	3.4	1.9	1.2	1.4	3.5	-
3	pH	6.83	7.29	6.17	7.18	7.84	6.92	6.69	6.48	6.71	7.1	6.74	6.49	6-8.5
4	Conductivity(µs/cm)	319.7	464	561.3	187.7	148.6	1831.0	561	206.0	205.5	228.7	241.2	366.8	Max 2250 µs/cm
5	BOD(mg/l)	4.8	5.6	5.4	1.9	5.4	3.6	5.4	5.4	5.0	4.3	5.6	4.7	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.5	BDL	BDL	BDL	BDL	BDL	BDL	0.1	BDL	BDL	0.13	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.01	0.039	0.006	BDL	BDL	0.021	0.006	BDL	BDL	BDL	0.016	-
8	Total Coliform(MPN/100ml)	1700	1400	1300	3500	2800	2400	2100	2400	3500	7000	2200	920	-
9	Fecal Coliform(MPN/100ml)	790	790	780	790	1100	790	780	1300	1700	3300	1300	350	-

10	Fecal Streptococci (MPN/100ml)	220	230	200	110	140	130	170	150	220	170	210	430	-
11	Turbidity(NTU)	30.2	27.1	52.2	6.97	3.76	7.32	2.40	16.44	15.9	24.20	38.5	44.9	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	100.0	90	22.0	48.0	38.0	52.0	24.0	50.0	48.0	80.0	68.0	94.0	-
14	Chlorides(mg/l)	39.0	54.0	76.48	24.49	18.49	26.0	67.0	24.5	22.49	33.0	33.99	60.0	-
15	COD(mg/l)	20.0	20.0	18.0	10.0	18.0	20.0	18.0	18.0	18.0	18.0	20.0	18.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.6	2.24	1.12	0.56	0.56	1.12	1.12	1.68	1.12	0.56	2.2	0.56	-
17	Ammonia (mg/l)	BDL	0.28	2.869	BDL	0.053	0.05	2.64	0.12	BDL	0.07	0.10	BDL	-
18	Total Hardness(mg/l)	72.0	94.0	68.0	66.0	40.0	46.0	68.0	50.0	68.0	64.0	66.0	86.0	-
19	Calcium(mg/l)	18.4	20.84	21.64	21.64	12.02	12.8	25.0	10.4	14.43	19.20	19.2	24.1	-
20	Magnesium(mg/l)	6.30	10.20	3.402	2.916	2.43	3.4	1.0	5.8	7.78	3.90	4.4	6.3	-
21	Sulphate(mg/l)	2.8	16.9	80.88	17.03	13.86	16.20	84.8	8.7	11.80	5.1	50.9	33.9	-
22	Sodium(mg/l)	BDL	38.0	39.4	58.7	27.5	19.3	38.4	12.7	43.2	29.9	31.3	34.9	-
23	Total Dissolved Solids(mg/l)	195.0	306.0	314.0	105.0	83.0	1171.0	320.0	121.0	131.0	146.0	145.0	209.0	-
24	Total Fixed Solids(mg/l)	78.0	184.0	118.0	63.0	49.0	468.0	48.0	78.0	78.0	88.0	58.0	125.0	-
25	Total Suspended Solids(mg/l)	54.0	23.0	40.0	15.0	9.0	8.0	6.0	22.0	16.0	23.0	11.0	60.0	-
26	Phosphate(mg/l)	BDL	0.026	0.331	BDL	0.035	0.06	0.30	0.02	BDL	0.07	BDL	0.02	-
27	Boron(mg/l)	BDL	1.12	0.485	0.003	0.011	0.121	BDL	0.241	BDL	0.00871	0.7	1.3	Max 2mg/l
28	Potassium(mg/l)	8.6	29.8	27.5	30.0	13.7	16.2	26.2	7.2	21.9	7.9	8.0	24.7	-
29	Flouride(mg/l)	0.7	0.23	BDL	BDL	0.5	BDL	BDL	BDL	BDL	0.2	0.4	BDL	-
30	SAR	4.58	9.6	11.13	16.75	10.23	6.76	10.50	4.46	12.96	8.79	9.1	8.96	Max 26.0
31	Percent Sodium (%)	-	-	-	78.32	74.03	68.6	70.82	55.12	74.56	62.04	62.44	66.24	-

DHAKTE (DIULER) TOLLEM, BENAULIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	sample was not collected as it was DRY	sample was not collected as it was DRY	sample was not collected as it was DRY	29	sample was not collected as it was DRY	sample was not collected as it was DRY	sample was not collected as it was DRY	sample was not collected as it was DRY	LOCATION NOT ACCESSIBLE	LOCATION NOT ACCESSIBLE	sample was not collected as it was DRY	sample was not collected as it was DRY	-
2	Dissolved Oxygen(mg/l)				7.1									-
3	pH				6.84									6-8.5
4	Conductivity(µs/cm)				122.4									Max 2250 µs/cm
5	BOD(mg/l)				1.1									-
6	Nitrate Nitrogen as NO_3-N(mg/l)				0.295									-
7	Nitrite Nitrogen as NO_2-N mg/l				0.007									-
8	Total Coliform(MPN/100ml)				330									-
9	Fecal Coliform(MPN/100ml)				230									-
10	Fecal Streptococci (MPN/100ml)				79									-
11	Turbidity(NTU)				4.52									-
12	Phenolphthalein Alkalinity(mg/l)				BDL									-
13	Total Alkalinity(mg/l)				24									-
14	Chlorides(mg/l)				20.0									-
15	COD(mg/l)				6.0									-
16	Total Kjeldahl Nitrogen(mg/l)				1.12									-
17	Ammonia (mg/l)				BDL									-
18	Total Hardness(mg/l)				28.0									-
19	Calcium(mg/l)				11.2									-
20	Magnesium(mg/l)				3.89									-
21	Sulphate(mg/l)				18.69									-

22	Sodium(mg/l)				62.3								-
23	Total Dissolved Solids(mg/l)				68.0								-
24	Total Fixed Solids(mg/l)				40.0								-
25	Total Suspended Solids(mg/l)				13.0								-
26	Phosphate(mg/l)				BDL								-
27	Boron(mg/l)				BDL								Max 2mg/l
28	Potassium(mg/l)				28.3								-
29	Flouride(mg/l)				BDL								-
30	SAR				22.67								Max 26.0
31	Percent Sodium (%)				85.71								-

KAMALA LAKE (KOMOLLAM TOLLEM), BENAULIM

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	28	29	28	27	28	30	28	27	29	30	-
2	Dissolved Oxygen(mg/l)	BDL	1.3	0.2	BDL	5.4	0.7	BDL	6.8	6.7	BDL	1.5	0.2	-
3	pH	6.4	6.78	7.05	6.67	7.88	7.69	7.16	7.43	6.72	6.8	6.73	7.02	6-8.5
4	Conductivity(µs/cm)	398.3	494	736.0	34.8	196.4	49.56	324	460.00	420.20	424.50	39.4	486.0	Max 2250 µs/cm
5	BOD(mg/l)	5.8	4.7	5.8	2.8	1.7	2.8	5.8	BDL	BDL	5.76	4.5	5.6	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.1	0.1	1.06	BDL	0.4	BDL	BDL	2.8	BDL	0.2	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.011	BDL	0.005	BDL	0.03	BDL	BDL	BDL	BDL	0.007	0.01	0.006	-
8	Total Coliform(MPN/100ml)	1400	1700	3300	5400	4900	1300	5400	2300	2000	2200	9200	540	-
9	Fecal Coliform(MPN/100ml)	940	1300	2300	2400	2300	790	2400	1300	1700	1100	3500	350	-
10	Fecal Streptococci (MPN/100ml)	140	130	170	220	170	130	210	170	110	130	350	430	-

11	Turbidity(NTU)	22.16	5.28	1.58	5.16	5.40	2.04	1.35	4.75	3.73	3.12	5.51	5.48	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	120.0	90	128.0	74.0	44.0	9.4	80.0	90.0	94.0	108.0	126.0	104.0	-
14	Chlorides(mg/l)	65.97	68.5	63.48	499.80	14.49	25.99	30.99	42.9	42.98	44.49	57.98	52.0	-
15	COD(mg/l)	16.0	18.0	18.0	20.0	4.0	20.0	18.0	18.0	6.0	18.0	16.0	20.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.68	2.24	2.24	1.68	0.056	1.68	4.48	4.48	0.56	1.68	1.12	-
17	Ammonia (mg/l)	0.07	1.947	1.81	1.22	0.16	BDL	0.84	1.03	1.49	BDL	0.69	0.10	-
18	Total Hardness(mg/l)	92.0	120.0	112.0	600.0	140.0	90.0	92.0	104.0	102.0	118.0	114.0	102.0	-
19	Calcium(mg/l)	25.65	26.45	28.06	160.30	20.04	26.5	28.06	29.7	29.66	31.26	38.47	28.1	-
20	Magnesium(mg/l)	6.8	13.12	10.2	48.6	21.87	5.8	5.35	7.3	6,804	9.72	4.37	7.8	-
21	Sulphate(mg/l)	3.80	4.065	2.49	23.90	19.87	9.6	18.21	18.96	10.13	25.86	7.35	10.3	-
22	Sodium(mg/l)	17.7	69.8	69.8	3.8	25.4	27.2	58.2	64.3	32.8	31.1	29.8	71.2	-
23	Total Dissolved Solids(mg/l)	243.0	277.0	431.0	22.0	131.0	31.0	207.0	276.0	340.0	257.0	25.0	292.0	-
24	Total Fixed Solids(mg/l)	148.0	166.0	261.0	9.0	78.0	12.0	125.0	179.0	658.0	151.0	15.0	117.0	-
25	Total Suspended Solids(mg/l)	42.0	23.0	11.0	9.0	19.0	6.0	5.0	10.0	13.0	32.0	8.0	11.0	-
26	Phosphate(mg/l)	0.29	1.963	0.58	0.29	0.08	0.12	0.25	1.38	1.50	0.64	0.54	BDL	-
27	Boron(mg/l)	1.2	1.802	1.0	0.0	0.0	BDL	0.019	0.035	BDL	0.019436	0.74	0.3	Max 2mg/l
28	Potassium(mg/l)	8.7	65.1	65.1	3.5	20.1	12.8	31.6	39.5	19.3	12.7	15.3	14.0	-
29	Flouride(mg/l)	BDL	0.175	BDL	0.4	0.25	0.3	0.2	0.18	0.66	BDL	BDL	0.3	-
30	SAR	4.39	15.69	15.96	0.4	5.55	6.8	14.24	15.0	7.56	6.87	6.44	16.82	Max 26.0
31	Percent Sodium (%)	-	-	-	3.4	5.55	55.34	72.88	73.75	58.6	51.66	51.28	70.4	-

AGRICULTURAL CANAL UPSTREAM OF CUNCOLIM INDUSTRIAL ESTATE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	28	27	28	27	28	28	30	28	28	31	-
2	Dissolved Oxygen(mg/l)	7.0	7.0	6.8	6.5	4.3	6.7	6.3	5.8	5.8	7.7	7.9	7.4	-
3	pH	7.14	6.88	7.63	7.70	7.11	6.80	6.70	6.77	7.01	6.92	7.02	7.5	6-8.5
4	Conductivity(µs/cm)	89	71	88.72	74.90	67.93	114.5	83	112.3	177.4	69.75	66.84	67.9	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.1	0.2	BDL	0.31	0.1	0.1	0.1	BDL	0.13	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.17	BDL	0.005	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2400	3900	240×10^2	3300	3100	5400	1100	1200	2200	2400	3500	1600	-
9	Fecal Coliform(MPN/100ml)	1700	2200	33×10^2	2300	2300	2400	780	700	1300	790	2400	540	-
10	Fecal Streptococci (MPN/100ml)	140	210	170	170	210	220	170	130	490	350	240	430	-
11	Turbidity(NTU)	0.92	1.56	3.01	49.6	4.84	6.01	6.43	8.73	4.78	2.4	1.35	1.1	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	24	34	26.0	18.0	22.0	32.0	26.0	40.0	36.0	18.0	14.0	32.0	-
14	Chlorides(mg/l)	35.99	7.0	14.0	8.5	8.5	12.5	8.0	23.0	25.5	6.5	7.0	10.0	-
15	COD(mg/l)	6.0	4.0	4.0	4.0	4.0	6.0	8.0	8.0	10.0	4.0	6.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	1.1	1.12	1.68	0.56	0.56	0.56	1.68	1.68	1.12	1.1	1.12	-
17	Ammonia (mg/l)	BDL	BDL	0.12	0.07	0.06	BDL	0.07	BDL	BDL	BDL	0.06	0.09	-
18	Total Hardness(mg/l)	18.0	26.0	28.0	34.0	18.0	32.0	24.0	60.0	40.0	42.0	40.0	20.0	-
19	Calcium(mg/l)	4.0	4.0	4.81	6.4	4.01	5.6	5.6	7.2	9.6	4.0	8.8	7.2	-
20	Magnesium(mg/l)	BDL	3.9	3.89	4.40	BDL	4.4	2.4	10.2	3.9	7.8	4.4	0.5	-
21	Sulphate(mg/l)	2.2	6.2	5.40	11.10	3.74	5.8	2.0	9.4	3.3	4.1	12.0	4.0	-

22	Sodium(mg/l)	30.1	4.3	5.3	20.9	33.1	22.8	22.0	27.1	25.0	20.8	21.4	30.9	-
23	Total Dissolved Solids(mg/l)	53.0	43.0	54.0	48.0	38.0	67.0	53.0	74.0	106.0	42.0	40.0	43.0	-
24	Total Fixed Solids(mg/l)	21.0	17.0	38.0	20.0	22.0	46.0	32.0	24.0	58.0	16.0	16.0	26.0	-
25	Total Suspended Solids(mg/l)	4.0	10.0	7.0	32.0	11.0	14.0	11.0	8.0	8.0	4.0	6.0	3.0	-
26	Phosphate(mg/l)	BDL	BDL	0.03	0.06	0.02	0.03	BDL	0.02	BDL	BDL	0.03	BDL	-
27	Boron(mg/l)	BDL	BDL	0.59	BDL	0.01	0.034	BDL	BDL	BDL	BDL	0.7	0.6	Max 2mg/l
28	Potassium(mg/l)	27.5	2.1	2.4	7.1	16.6	12.5	18.6	22.1	6.6	9.1	2.2	2.5	-
29	Flouride(mg/l)	BDL	BDL	0.33	0.40	0.23	BDL	BDL	BDL	BDL	BDL	0.2	BDL	-
30	SAR	17.5	2.2	2.54	9.00	19.18	10.20	10.97	9.18	9.62	8.6	8.3	15.75	Max 26.0
31	Percent Sodium (%)	-	-	-	72.20	89.78	77.92	83.47	73.9	70.07	71.7	64.1	81.27	-
AGRICULTURAL CANAL DOWNSTREAM OF CUNCOLIM INDUSTRIAL ESTATE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class E as per CPCB classification based on designated best use**
1	Temperature°C	30	30	28	27	28	27	28	29	**sample was not collected as it was DRY**	28	28	31	-
2	Dissolved Oxygen(mg/l)	7.5	8.8	7.8	6.1	5.2	6.0	6.5	7.5		6.7	8.1	6.5	-
3	pH	6.86	7.22	7.20	7.46	7.21	6.18	6.71	6.45		6.56	8.68	7.5	6-8.5
4	Conductivity(µs/cm)	66.0	60	140.8	323.6	472.7	618.5	79	245.9		51.30	67.61	56.71	Max 2250 µs/cm
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.7	BDL	BDL	BDL		BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.12	0.40	0.11	1.56	0.10	0.1		0.2	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.007	0.014	0.010	BDL	0.005	BDL		BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	2700	4300	7900	2300	2100	1300	680	840		5400	9200	540	-
9	Fecal Coliform(MPN/100ml)	2200	3100	4900	1300	1700	790	450	630		2400	3500	280	-
10	Fecal Streptococci (MPN/100ml)	170	320	230	140	130	110	140	140		540	350	220	-

11	Turbidity(NTU)	1.38	1.4	3.88	54.60	6.94	1.95	6.07	5.40		3.16	2.91	1.1	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	18	28	26	30	32	40.0	26.0	62.0		20.0	20.0	36.0	-
14	Chlorides(mg/l)	6.0	9.5	17.49	17.00	95.47	28.50	7.5	47.5		5.5	7,498	6.5	-
15	COD(mg/l)	8.0	4.0	4.0	4.0	4.0	6.0	10.0	6.0		4.0	10.0	6.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	1.1	0.56	2.24	1.12	1.12	0.56	1.68		0.56	1.1	1.12	-
17	Ammonia (mg/l)	BDL	BDL	BDL	0.09	BDL	0.09	0.06	BDL		BDL	0.05	0.08	-
18	Total Hardness(mg/l)	18.0	20.0	42.0	680.0	50.0	174.0	38.0	100.0		24.0	58.0	26.0	-
19	Calcium(mg/l)	4.0	4.8	5.61	64.10	8.02	35.3	4.8	21.6		4.8	4.0	4.8	-
20	Magnesium(mg/l)	BDL	BDL	6.8	126.4	7.3	20.9	6.3	11.2		2.9	11.7	3.4	-
21	Sulphate(mg/l)	BDL	4.0	27.3	334.0	106.5	95.0	2.9	14.0		4.0	14.8	BDL	-
22	Sodium(mg/l)	26.8	3.2	3.4	1213.0	53.5	40.2	14.2	30.1		20.6	23.1	25.1	-
23	Total Dissolved Solids(mg/l)	39.0	36.0	88.0	145.0	264.0	371.0	51.0	163.0		31.0	41.0	36.0	-
24	Total Fixed Solids(mg/l)	16.0	14.0	62.0	60.0	158.0	237.0	31.0	54.0		12.0	16.0	22.0	-
25	Total Suspended Solids(mg/l)	6.0	10.0	8.0	35.0	13.0	5.0	10.0	9.0		5.0	8.0	4.0	-
26	Phosphate(mg/l)	BDL	0.02	BDL	0.040	0.020	0.06	BDL	BDL		BDL	0.02	BDL	-
27	Boron(mg/l)	BDL	0.3	0.67	0.29	0.57	0.008	BDL	0.59		0.00045	0.5	0.5	Max 2mg/l
28	Potassium(mg/l)	25.7	1.6	1.7	759.0	26.8	22.4	10.0	15.7		9.1	8.0	1.5	-
29	Flouride(mg/l)	BDL	BDL	0.38	0.20	0.45	0.34	BDL	BDL		BDL	0.20	BDL	-
30	SAR	15.6	1.7	1.36	124.30	19.34	7.55	6.02	7.43		10.5	8.3	12.39	Max 26.0
31	Percent Sodium (%)	-	-	-	91.20	82.63	52.61	68.50	58.3		79.4	66.5	76.41	-

RIVER MAPUSA ON CULVERT ON HIGHWAY MAPUSA-PANAJI													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	28	29	29	30	29	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	2.5	4.0	7.1	2.3	4.2	4.1	5.0	2.5	5.7	6.0	4.8	3.5	4 mg/l or more
3	pH	6.46	6.42	7.29	6.8	7.48	6.49	6.55	6.51	7.23	6.97	6.57	6.68	6.5 - 8.5
4	Conductivity(µs/cm)	175.2	76.5	63.59	162.4	96.58	165.90	177.6	125.2	238.8	303.0	4.4	473.5	-
5	BOD(mg/l)	4.5	BDL	BDL	3.2	BDL	BDL	BDL	3.9	BDL	BDL	BDL	4.48	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.10	BDL	0.1	0.4	0.30	0.30	0.5	0.53	0.30	BDL	0.13	0.3	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.017	0.01	0.008	0.03	0.012	BDL	0.025	BDL	BDL	-
8	Total Coliform(MPN/100ml)	3300	4600	4600	4900	4600	7900	4900	4000	3300	3900	3300	1600	-
9	Fecal Coliform(MPN/100ml)	2300	3300	3300	3300	3100	1300	3300	2600	2300	2600	2300	920	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	270	220	220	260	270	490	260	220	200	230	260	240	-
11	Turbidity(NTU)	6.04	8.04	2.88	12.91	15.58	11.33	1.27	9.23	6.70	4.18	5.02	6.86	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	28.0	42.0	30.0	44.0	38.0	40.0	34.0	38.0	30.0	38.0	48.0	28.0	-
14	Chlorides(mg/l)	17.0	8.00	6.50	19.0	12.0	15.0	21.5	60.48	44.99	68.48	1549.50	93.97	-
15	COD(mg/l)	16.0	8	8.0	20	8.0	4.0	8.0	10.0	14.0	12.0	8.0	16.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.12	1.1	3.36	2.24	2.2416	1.12	1.68	3.36	1.12	1.68	0.56	-
17	Ammonia (mg/l)	BDL	0.07	BDL	0.15	0.08	BDL	0.25	0.371	0.20	BDL	0.08	BDL	-
18	Total Hardness(mg/l)	38.00	30.0	22.0	44.0	34.0	38.0	42.0	70.0	52.0	56.0	1800.0	70.0	-
19	Calcium(mg/l)	9.6	5.6	5.6	12.0	9.62	9.6	12.0	17.63	12.8	12.0	80.2	16.83	-

20	Magnesium(mg/l)	3.40	3.89	BDL	3.4	2.43	3.4	2.9	BDL	4.9	6.3	388.8	6.80	-
21	Sulphate(mg/l)	4.2	5.49	3.00	18.0	10.74	10.5	9.0	6.32	9.9	9.3	84.3	8.70	-
22	Sodium(mg/l)	73.1	17.5	17.8	17.4	6.1	18.7	34.9	18.2	52.0	33.2	138.1	45.0	-
23	Total Dissolved Solids(mg/l)	107.0	47.0	39.0	103.0	63.0	110.0	103.0	79.0	149.0	170.0	3.0	287.0	-
24	Total Fixed Solids(mg/l)	72.0	31.0	16.0	46.0	37.0	37.0	67.0	53.0	63.0	57.0	BDL	171.0	-
25	Total Suspended Solids(mg/l)	16	17.0	7.0	23.0	4.0	26.0	9.0	14.0	10.0	9.0	9.0	13.0	-
26	Phosphate(mg/l)	0.02	0.02	BDL	0.06	0.04	0.03	0.02	0.083	BDL	BDL	0.02	BDL	-
27	Boron(mg/l)	0.92	0.98	0.5	BDL	0.007	BDL	0.009	0.032	BDL	0.25	0.5	0.7	-
28	Potassium(mg/l)	59.2	8.2	8.5	7.0	3.8	8.2	18.1	7.8	5.1	4.7	33.1	13.5	-
29	Flouride(mg/l)	0.29	BDL	0.3	0.2	BDL	0.4	0.22	0.53	0.1	BDL	0.6	BDL	-
30	SAR	28.67	8.03	9.16	6.265	2.49	7.3	12.79	5.26	17.49	11.0	9.0	13.09	-
31	Percent Sodium (%)	-	-	-	61.26	45.10	67.4	78.06	52.05	76.4	67.4	26.7	71.23	-
CUMBHARJUA CANAL, CORLIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	30	29	29	29	28	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	6.3	4.9	4.4	6.7	7.6	7.8	6.7	5.4	7.0	5.9	6.2	6.4	4 mg/l or more
3	pH	7.48	7.35	6.68	7.87	7.33	6.75	6.51	7.10	7.14	7.22	7.39	7.45	6.5 - 8.5
4	Conductivity(µs/cm)	47350.0	61610.0	15600.0	343.0	183.3	195.9	243.5	10360.0	22680.0	31800.0	45970.0	29530.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	2.2	0.493	0.1	0.22	0.4	BDL	0.15	0.22	2.2	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.03	0.02	BDL	0.004	BDL	0.01	BDL	0.01	0.05	0.018	0.013	-
8	Total Coliform(MPN/100ml)	490	460	350	540	920	540	920	540	3500	3500	1700	<1.8	-

9	Fecal Coliform(MPN/ 100ml)	230	230	170	240	220	350	540	350	1300	1700	1100	<1.8	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	70	68	46	79	130	130	170	220	280	220	240	<1.8	-
11	Turbidity(NTU)	12.4	65.80	7.37	10.14	14.63	15.36	18.0	7.62	9.82	5.52	4.16	5.26	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	112	132.0	54.0	26.0	20.0	26.0	36.0	40.0	54.0	86.0	66.0	80.0	-
14	Chlorides(mg/l)	11496.4	17119.0	5448.3	82.97	39.0	34.49	39.5	2649.2	8372.4	15745.12	12871.0	16120.0	-
15	COD(mg/l)	-	-	-	6.0	6.0	6.0	4.0	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.60	1.68	1.12	0.56	1.12	1.12	1.12	1.68	0.56	1.68	0.56	0.56	-
17	Ammonia (mg/l)	BDL	0.05	0.28	0.073	BDL	BDL	0.19	0.12	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	5800.0	6200.0	1720.0	50.0	24.0	28.0	48.0	3600.0	2400.0	7200.0	4000.0	5600.0	-
19	Calcium(mg/l)	561.12	641.3	128.26	7.21	4.0	7.2	12.8	160.3	144.3	961.92	320.6	961.92	-
20	Magnesium(mg/ l)	1069.2	1117.8	340.2	7.776	3.4	2.4	3.9	777.6	495.7	1166.4	777.6	777.6	-
21	Sulphate(mg/l)	1881.5	2180.7	321.3	13.09	9.1	8.4	12.3	68.5	1096.2	1313.04	3059.2	2034.12	-
22	Sodium(mg/l)	1535.0	5325.0	5325.0	200.0	41.1	30.9	13.5	8231.0	5070.0	3200.0	1010.0	8725.0	-
23	Total Dissolved Solids(mg/l)	26557.0	35734.0	9171.0	192.0	122.0	112.0	146.0	6216.0	13381.0	20988.0	28714.0	19273.0	-
24	Total Fixed Solids(mg/l)	9120.0	23941.0	5501.0	115.0	41.0	38.0	99.0	2486.0	8430.0	12592.0	19073.0	11563.0	-
25	Total Suspended Solids(mg/l)	25.000	35.0	7.0	22.0	27.0	32.0	23.0	12.0	14.0	6.0	11.0	9.0	-
26	Phosphate(mg/l)	0.04	0.03	0.02	0.075	BDL	BDL	BDL	0.08	0.02	0.10	BDL	0.03	-
27	Boron(mg/l)	BDL	1.540	1.5	BDL	0.015	0.014	0.041	0.96	0.644	0.165	0.4	1.2	-
28	Potassium(mg/l)	1259.00	1825.0	1825.0	115.2	29.5	13.8	5.4	5221.0	2613.0	575.0	195.0	4350.0	-
29	Flouride(mg/l)	0.5	1.39	0.8	BDL	BDL	BDL	BDL	0.2	0.5	BDL	1.2	1.2	-
30	SAR	53.8	179.55	347.94	73.06	21.4	14.1	4.67	380.09	283.42	98.09	43.10	295.85	-
31	Percent Sodium (%)	-	-	-	95.46	90.5	82.25	53.09	93.5	92.31	63.95	52.32	88.26	-

RIVER MANDOVI NEAR MANDOVI BRIDGE,													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	30	28	28	29	28	29	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.8	8.6	7.1	7.2	7.7	7.4	5.5	4.5	4.8	5.8	5.8	5.5	4 mg/l or more
3	pH	7.4	7.86	8.23	6.88	6.72	6.98	7.30	7.86	7.73	7.88	8.0	7.82	6.5 - 8.5
4	Conductivity(µs/cm)	51080.0	68570.0	41340.0	971.4	17100.0	907.0	24860.0	30720.0	35940.0	30150.0	56150.0	45480.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.1	0.7	0.306	0.1	0.259	0.118	0.25	0.3	0.6	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.02	BDL	0.02	0.01	0.005	BDL	BDL	0.01	0.009	0.018	BDL	BDL	-
8	Total Coliform(MPN/100ml)	110	120	240	310	330	330	320	200	220	280	390	920	-
9	Fecal Coliform(MPN/100ml)	68	93	170	210	230	230	220	140	170	170	210	350	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	49	63	110	79	130	140	110	110	110	79	93	280	-
11	Turbidity(NTU)	6.3	4.35	8.41	16.57	4.8	11.92	4.85	7.28	5.17	3.45	7.08	2.36	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	124.0	134.0	92.0	40.0	66.0	30.0	64.0	50.0	64.0	106.0	94.0	94.0	-
14	Chlorides(mg/l)	15120.3	17244.65	15370.00	399.88	5548.3	10.0	10621.71	16744.81	15217.70	15370.23	17619.50	16744.8	-
15	COD(mg/l)	-	-	-	6.0	-	191.9	-	-	-	-	-		-
16	Total Kjeldahl Nitrogen(mg/l)	3.90	1.68	0.56	1.12	1.68	1.12	0.56	1.68	1.68	1.68	2.8	0.56	-
17	Ammonia (mg/l)	0.1	0.12	BDL	BDL	0.13	BDL	0.068	0.08	BDL	0.04	BDL	BDL	-
18	Total Hardness(mg/l)	7800.0	6600.0	5200.0	84.0	1740.0	64.0	4200.0	9400.0	5000.0	6200.0	8600.0	6800.0	-
19	Calcium(mg/l)	1122.2	881.76	801.60	13.63	136.3	13.63	801.6	480.96	561.1	400.8	400.8	480.9	-

20	Magnesium(mg/l)	1215.0	1069.2	777.6	12.15	340.2	7.29	534.6	1992.6	874.8	1263.6	1846.8	1360.8	-
21	Sulphate(mg/l)	1824.3	3004.09	1906.40	36.59	673.4	9.089	296.1	2769.03	2748.9	2790.0	2762.2	5542.2	-
22	Sodium(mg/l)	6750.0	1575.0	5028.0	12.4	3530.0	1575.0	4500.0	7200.0	7300.0	7309.8	4360.0	5540.3	-
23	Total Dissolved Solids(mg/l)	32691.0	35448.0	24390.0	524.0	10944.0	503.0	13921.0	19660.0	22409.0	19454.0	35684.0	25468.0	-
24	Total Fixed Solids(mg/l)	19615.0	21265.0	17804.0	314.0	6566.0	301.0	8352.0	11796.0	9244.0	8239.0	11902.0	15280.0	-
25	Total Suspended Solids(mg/l)	20	7.0	15.0	4.0	10.0	16.0	10.0	7.0	8.0	5.0	17.0	6.0	-
26	Phosphate(mg/l)	0.02	0.040	0.020	0.031	0.06	BDL	BDL	0.03	0.08	0.04	BDL	0.38	-
27	Boron(mg/l)	1.76	1.1	1.1	0.05	1.17	0.434	0.133	2.56	1.538	2.5241	0.4	1.820	-
28	Potassium(mg/l)	3250.00	975	801.6	10.4	1260.0	787.5	2250.0	3100.0	3209.0	3251.9	400.0	3825.4	-
29	Flouride(mg/l)	1	1.40	1.30	BDL	0.9	BDL	BDL	BDL	0.6	0.8	1.2	1.15	-
30	SAR	186.20	50.43	178.93	3.45	228.7	122.99	174.1	204.73	272.4	253.4	130.1	182.57	-
31	Percent Sodium (%)	-	-	-	46.93	91.0	87.81	83.48	80.64	88.0	86.4	67.9	83.57	-
RIVER MANDOVI AT TONCA MARCELA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	29	29	28	29	30	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	5.2	6.4	5.4	7.0	7.1	7.8	7.0	6.5	5.4	4.3	4.6	5.2	4 mg/l or more
3	pH	7.42	7.35	6.82	7.75	6.53	6.85	6.74	7.21	7.04	6.99	7.35	7.28	6.5 - 8.5
4	Conductivity(µs/cm)	40090.0	48340.0	12310.0	147.9	108.1	121.8	111.3	8490.0	15700.0	19400.0	38480.0	23230.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.90	BDL	0.1	0.436	0.20	0.23	0.3	BDL	0.12	0.20	2.5	0.01	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.024	0.02	0.007	BDL	BDL	BDL	0.02	BDL	0.006	0.06	0.028	0.025	-
8	Total Coliform(MPN/100ml)	540	330	310	460	400	3500	5400	1300	490	490	700	280	-

9	Fecal Coliform(MPN/100ml)	240	220	230	330	260	1300	1300	330	330	330	460	170	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	94	70	79	93	79	170	170	230	140	200	260	70	-
11	Turbidity(NTU)	3.11	4.39	10.11	9.13	9.87	9.34	27.5	4.45	1.93	3.70	3.35	5.28	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	126.00	118.0	46.0	32.0	14.0	26.0	20.0	34.0	44.0	80.0	62.0	68.0	-
14	Chlorides(mg/l)	11871.3	14745.4	7997.5	27.49	21.0	19.5	17.0	2699.2	5498.3	11746.36	10871.60	14620.47	-
15	COD(mg/l)	-	-	-	6.0	10.0	10.0	6.0	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.70	0.560	1.680	1.68	1.68	0.56	0.56	1.12	0.56	0.56	2.80	1.12	-
17	Ammonia (mg/l)	0.1	BDL	0.09	0.165	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	-
18	Total Hardness(mg/l)	6000.0	6000.0	2200.0	32.0	20.0	26.0	24.0	2200.0	1640.0	4200.0	4000.0	5200.0	-
19	Calcium(mg/l)	561.10	400.80	320.60	6.41	4.0	4.8	5.6	59.3	112.2	1523.0	400.8	480.96	-
20	Magnesium(mg/l)	1117.8	1215.00	340.20	3.888	2.4	3.4	2.4	498.6	330.5	97.2	729.0	972.0	-
21	Sulphate(mg/l)	1772.3	1587.30	428.40	7.425	4.9	6.2	11.1	66.8	229.1	844.60	2805.8	1400.30	-
22	Sodium(mg/l)	8000.0	3800.0	3795.0	300.8	34.6	27.9	7.0	5451.4	4015.0	6100.0	810.0	8350.0	-
23	Total Dissolved Solids(mg/l)	24054.0	28037.0	8125.0	83.0	69.0	65.0	64.0	5094.0	9263.0	12028.0	25219.0	12912.0	-
24	Total Fixed Solids(mg/l)	9622.0	17633.0	4875.0	49.0	28.0	22.0	42.0	2037.0	6206.0	7216.0	16781.0	7747.0	-
25	Total Suspended Solids(mg/l)	10.00	10.0	18.0	20.0	16.0	19.0	28.0	8.0	8.0	4.0	7.0	8.0	-
26	Phosphate(mg/l)	BDL	0.020	BDL	0.085	0.02	BDL	BDL	BDL	BDL	0.04	BDL	BDL	-
27	Boron(mg/l)	0.6	1.390	BDL	BDL	0.008	0.010	0.024	0.76	4.639	0.13524	0.3	0.9	-
28	Potassium(mg/l)	5625	1300.0	1296.0	200.1	8.6	12.3	2.8	2328.3	2009.0	4100.0	167.0	5850.0	-
29	Flouride(mg/l)	1.2	1.13	0.3	BDL	0.2	0.1	BDL	BDL	0.9	BDL	1.2	0.8	-
30	SAR	276.11	133.69	208.78	132.56	19.4	13.8	3.5	326.38	307.21	214.32	34.08	309.80	-
31	Percent Sodium (%)	-	-	-	97.99	87.1	83.0	55.09	93.3	94.63	86.29	46.37	90.72	-

RIVER MANDOVI NEAR HOTEL MARIOTT													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	29	30	28	28	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.5	6.4	6.0	7.7	6.2	7.3	6.8	4.1	5.8	6.6	6.2	6.8	4 mg/l or more
3	pH	7.84	8.12	8.13	8.36	8.20	7.83	7.58	8.15	7.66	7.88	8.06	8.08	6.5 - 8.5
4	Conductivity(µs/cm)	63870.0	67950.00	47940.00	23650.00	11960.0	6726.0	42140.0	45560.0	44880.0	33090.0	55810.0	48170.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.10	0.20	0.2	0.2	0.367	0.1	0.13	0.5	0.4	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005	BDL	0.041	0.01	0.005	0.005	0.005	0.02	0.012	0.013	BDL	BDL	-
8	Total Coliform(MPN/100ml)	120	110	220	230	170	490	260	220	230	280	330	1600	-
9	Fecal Coliform(MPN/100ml)	93	68	110	130	93	230	140	170	130	170	220	540	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	70	46	92	79	70	130	120	94	110	94	120	350	-
11	Turbidity(NTU)	5.4	7.58	18.48	16.61	10.34	18.76	11.04	4.16	5.10	4.02	6.02	3.7	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.0	BDL	-
13	Total Alkalinity(mg/l)	118.0	142.0	90.0	60.0	52.0	42.0	88.0	98.0	74.0	118.0	84.0	98.0	-
14	Chlorides(mg/l)	15820	17744.50	16494.90	9247.1	4798.5	3149.0	15620.0	16744.8	16767.8	15995.04	17869.50	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-		-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	0.56	0.56	0.56	1.12	1.68	1.12	1.12	2.80	2.24	2.2	1.12	-
17	Ammonia (mg/l)	0.1	0.05	BDL	0.06	0.10	0.077	0.27	0.07	0.07	0.08	BDL	BDL	-
18	Total Hardness(mg/l)	8800.0	7000.0	7200.0	5000.0	1360.0	1560.0	5800.0	8200.0	7600.0	5800.0	9000.0	7200.0	-
19	Calcium(mg/l)	721.4	961.92	961.90	400.8	96.2	320.64	400.8	641.28	561.10	561.2	481.0	641.3	-

20	Magnesium(mg/l)	1701.00	1117.80	1166.40	972.0	272.2	184.68	1166.4	1603.8	1506.6	1069.2	1895.4	1360.8	-
21	Sulphate(mg/l)	1850.31	3256.28	1742.20	539.7	407.1	887.15	1480.5	3524.22	3429.5	3492.2	4295.7	2093.1	-
22	Sodium(mg/l)	4375.0	5525.0	5530.0	92.9	1600.0	1987.0	1525.6	9600.0	992.0	9615.2	4030.0	10050.0	-
23	Total Dissolved Solids(mg/l)	40876.0	35267.0	28284.0	13960.0	7654.0	3766.0	26970.0	25969.0	27492.0	20256.0	36666.0	26975.0	-
24	Total Fixed Solids(mg/l)	24525.0	21160.0	20364.0	4746.0	4592.0	2259.0	16182.0	15581.0	11342.0	8356.0	12338.0	16185.0	-
25	Total Suspended Solids(mg/l)	2	9.0	17.0	30.0	13.0	23.0	14.0	4.0	9.0	6.0	18.0	7.0	-
26	Phosphate(mg/l)	0.02	0.04	0.03	0.05	0.03	BDL	0.10	0.03	0.03	0.05	BDL	0.03	-
27	Boron(mg/l)	1.9717	1.6	1.4	1.32	0.085	0.3	0.229	4.21	1.994	2.9685	0.4	1.974	-
28	Potassium(mg/l)	1075.00	2350	2482	15.3	1200.0	993.5	1213.5	3275.0	3179.0	3289.5	350.0	8150.0	-
29	Flouride(mg/l)	1.387	1.5	1.4	0.9	0.8	BDL	0.9	BDL	0.5	0.7	1.0	1.33	-
30	SAR	125.71	171.33	169.52	3.6	117.9	146.28	54.50	286.53	298.32	336.8	116.9	317.6	-
31	Percent Sodium (%)	-	-	-	7.3	88.4	88.98	63.61	85.15	86.1	88.8	64.8	90.09	-
RIVER MANDOVI AT IFFI JETTY														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	29	30	28	28	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.0	7.1	6.1	7.2	5.9	8.1	6.0	4.2	5.5	4.1	6.1	5.3	4 mg/l or more
3	pH	7.89	7.96	8.08	8.65	8.68	7.29	7.77	8.02	7.86	7.93	8.03	8.02	6.5 - 8.5
4	Conductivity(µs/cm)	64430.0	64420.00	47390.00	27350.00	11930.0	4892.0	37100.0	40300.0	45030.0	47450.0	56480.0	47620.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.3	0.2	0.2	0.362	0.1	0.18	0.5	0.5	0.2	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.041	0.010	BDL	0.005	BDL	0.02	0.013	0.015	BDL	0.005	-
8	Total Coliform(MPN/100ml)	1100	150	330	320	140	460	330	210	130	170	260	1600	-

9	Fecal Coliform(MPN/ 100ml)	490	83	130	170	110	330	170	150	78	110	170	350	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	110	70	78	94	79	110	94	110	49	49	79	430	-
11	Turbidity(NTU)	3.5	5.61	19.10	17.63	9.27	10.26	9.77	3.84	5.11	3.99	5.41	3.42	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	10.0	BDL	BDL	BDL	22.0	BDL	-
13	Total Alkalinity(mg/l)	124.0	144.0	86.0	66.0	54.0	42.0	80.0	94.0	68.0	120.0	74.0	96.0	-
14	Chlorides(mg/l)	16740	17494.58	16120.00	12246.2	3948.8	2499.2	15245.3	15995.04	15878.9	16369.92	17744.5	17244.7	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-		-
16	Total Kjeldahl Nitrogen(mg/l)	3.36	1.12	0.56	1.12	0.56	0.56	1.12	1.12	1.12	3.36	2.2	1.12	-
17	Ammonia (mg/l)	0.1	0.17	0.07	BDL	0.08	BDL	0.14	0.11	BDL	0.11	BDL	BDL	-
18	Total Hardness(mg/l)	10800.0	6800.0	6400.0	5000.0	1480.0	1300.0	5800.0	7800.0	700.0	7000.0	9000.0	7600.0	-
19	Calcium(mg/l)	721.4	881.76	881.80	320.6	104.2	264.53	561.1	480.96	481.0	400.8	641.3	400.8	-
20	Magnesium(mg/ l)	2187.00	1117.80	1020.60	1020.6	296.5	155.52	1069.2	1603.8	1409.4	1458.0	1798.2	1603.8	-
21	Sulphate(mg/l)	4532.22	3145.02	1435.10	697.8	565.7	762.6	1421.3	1776.09	1648.50	1802.1	3197.4	2026.8	-
22	Sodium(mg/l)	7900.0	5450.0	5439.0	101.0	1000.0	1358.0	1100.0	8800.0	8702.0	8815.6	4140.0	6985.8	-
23	Total Dissolved Solids(mg/l)	41235.0	34891.0	27012.0	15400.0	7635.0	2739.0	23744.0	26598.0	28482.0	30631.0	37573.0	26667.0	-
24	Total Fixed Solids(mg/l)	24741.0	20931.0	18098.0	5236.0	4581.0	1643.0	14246.0	15958.0	12064.0	12637.0	12530.0	16000.0	-
25	Total Suspended Solids(mg/l)	2	6.0	18.0	32.0	12.0	12.0	13.0	4.0	9.0	5.0	14.0	9.0	-
26	Phosphate(mg/l)	0.025	0.060	0.030	0.07	0.02	0.405	0.48	0.02	0.07	0.04	BDL	0.04	-
27	Boron(mg/l)	1.942	1.90	0.63	1.50	0.082	0.22	2.258	4.12	1.961	2.8051	0.4	1.834	-
28	Potassium(mg/l)	1575.00	2075.0	2148.0	17.0	800.0	679.0	880.2	3650.0	3529.0	3678.7	400.0	3254.1	-
29	Flouride(mg/l)	1.365	1.5	1.4	0.8	0.8	BDL	0.9	BDL	0.8	0.5	1.2	1.39	-
30	SAR	207.16	172.36	176.35	3.9	70.7	146.26	38.53	272.17	283.05	289.2	118.5	220.66	-
31	Percent Sodium (%)	-	-	-	8.1	81.8	92.23	54.85	85.62	88.6	87.0	65.1	83.6	-

RIVER MANDOVI AT RIBANDAR-CHODAN FERRY, PANAJI													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	30	28	28	28	27	29	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.6	7.7	6.8	6.9	7.6	8.0	5.7	4.7	4.4	4.6	4.9	5.7	4 mg/l or more
3	pH	7.39	7.73	7.66	7.12	6.66	7.04	7.59	7.91	7.71	7.48	7.88	7.69	6.5 - 8.5
4	Conductivity(µs/cm)	50010.0	64880	29280	473	14130.0	259.0	42210.0	28700.0	31190.0	26980.0	51050.0	43200.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.94	0.94	0.1	0.312	BDL	0.20	0.30	0.4	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.02	BDL	0.04	0.02	BDL	BDL	BDL	0.01	0.009	0.008	BDL	BDL	-
8	Total Coliform(MPN/100ml)	170	140	220	240	210	490	400	260	110	220	320	920	-
9	Fecal Coliform(MPN/100ml)	110	78	130	170	140	230	210	210	78	130	210	350	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	70	49	93	94	79	110	84	140	70	49	58	430	-
11	Turbidity(NTU)	1.0	11.23	4.64	21.4	4.9	12.24	6.58	7.29	6.27	4.95	5.61	3.49	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.0	BDL	-
13	Total Alkalinity(mg/l)	122.0	132.0	74.0	62.0	62.0	34.0	64.0	76.0	56.0	98.0	78.0	96.0	-
14	Chlorides(mg/l)	14495.5	16994.73	11246.5	101.97	4589.6	10.0	16244.96	13870.70	13972.50	13745.73	17994.40	16244.9	-
15	COD(mg/l)	-	-	-	6.0	-	50.98	-	-	-	-	-		-
16	Total Kjeldahl Nitrogen(mg/l)	2.80	2.24	0.56	0.56	1.12	1.68	0.56	1.12	0.56	3.36	2.2	1.12	-
17	Ammonia (mg/l)	BDL	0.14	BDL	0.05	0.05	BDL	0.071	0.11	BDL	0.11	BDL	BDL	-
18	Total Hardness(mg/l)	3400.0	5400.0	4000.0	46.0	1400.0	68.0	5800.0	5600.0	4400.0	4400.0	7000.0	6800.0	-
19	Calcium(mg/l)	561.1	561.12	641.3	8.82	120.2	14.43	1202.4	1122.24	721.4	641.3	641.3	561.1	-

20	Magnesium(mg/l)	486.00	972	583.2	5.83	267.3	7.78	680.4	680.4	631.8	680.4	1312.2	1312.2	-
21	Sulphate(mg/l)	1787.9	2781.56	1416.6	29.79	508.8	6.198	688.4	2748.05	2697.2	2741.1	3328.0	2741.6	-
22	Sodium(mg/l)	7020.0	5550.0	2149.0	7.6	2620.0	1083.0	5210.0	6800.0	6702.0	6812.7	4300.0	9750.0	-
23	Total Dissolved Solids(mg/l)	31006.0	34125.0	17568.0	283.0	9043.0	145.0	23637.0	18368.0	19448.0	17336.0	34196.0	24192.0	-
24	Total Fixed Solids(mg/l)	18604.0	20460.0	12824.0	170.0	5426.0	87.0	14182.0	11020.0	8043.0	7550.0	11409.0	14515.0	-
25	Total Suspended Solids(mg/l)	13	17.0	9.0	4.0	13.0	15.0	11.0	7.0	10.0	7.0	15.0	8.0	-
26	Phosphate(mg/l)	0.02	0.03	0.02	0.08	0.03	BDL	BDL	0.02	0.08	0.03	BDL	0.02	-
27	Boron(mg/l)	1.63	0.6	1	0.07	0.09	0.024	0.135	11.44	1.373	2.18211	0.3	1.772	-
28	Potassium(mg/l)	3400.00	2075	641.3	5.0	1540.0	541.5	2605.0	3600.0	3602.0	3671.2	370.0	8125.0	-
29	Flouride(mg/l)	0.6	0.8	1.3	BDL	0.6	0.453	BDL	BDL	0.8	0.5	1.1	1.15	-
30	SAR	306.8	200.46	86.85	2.81	188.2	92.81	169.81	226.50	257.65	265.0	137.6	318.58	-
31	Percent Sodium (%)	-	-	-	53.94	91.5	85.64	80.59	85.23	88.4	88.8	70.5	90.51	-
RIVER MANDOVI AT AMONA														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	29	28	28	29	30	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	5.5	6.4	5.8	5.6	7.2	6.5	7.4	6.1	6.8	4.7	6.7	6.9	4 mg/l or more
3	pH	7.48	7.35	6.17	7.40	6.88	6.60	6.6	6.78	7.19	7.40	7.76	7.31	6.5 - 8.5
4	Conductivity(µs/cm)	39360.0	44890.0	6802.0	237.3	134.8	163.8	94.13	4110.0	9619.0	19970.0	32980.0	26110.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.24	BDL	0.1	0.504	0.3	0.2	0.2	BDL	0.13	0.26	2.5	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.032	0.020	0.016	BDL	0.008	BDL	0.009	BDL	0.006	0.08	0.027	0.025	-
8	Total Coliform(MPN/100ml)	130	110	140	230	330	790	7900	4600	330	790	700	540	-

9	Fecal Coliform(MPN/100ml)	79	78	110	130	170	490	2300	2300	230	490	490	220	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	33	32	33	92	110	220	460	330	140	220	210	94	-
11	Turbidity(NTU)	4.7	4.23	12.86	8.16	10.41	9.66	26.8	3.86	2.99	3.17	2.97	4.89	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	108.00	110.0	40.0	22.0	78.0	24.0	22.0	26.0	38.0	94.0	62.0	82.0	-
14	Chlorides(mg/l)	9497.1	13370.9	8747.2	50.98	26.5	27.0	13.5	1899.4	4398.6	9247.13	11246.50	11871.32	-
15	COD(mg/l)	-	-	-	6.0	2.0	10.0	4.0	8.0	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.12	1.12	1.12	1.12	1.12	2.24	1.12	0.56	0.56	2.2416	0.56	-
17	Ammonia (mg/l)	BDL	BDL	0.1	BDL	BDL	0.39	0.13	BDL	BDL	BDL	BDL	0.06	-
18	Total Hardness(mg/l)	6800.0	5200.0	600.0	40.0	24.0	28.0	28.0	1800.0	780.0	6800.0	3800.0	4600.0	-
19	Calcium(mg/l)	641.30	641.30	160.30	6.41	4.8	6.4	4.81	36.9	80.2	1122.24	320.6	480.96	-
20	Magnesium(mg/l)	1263.60	874.80	48.60	5.832	2.9	2.9	3.9	415.0	140.9	972.0	729.0	826.20	-
21	Sulphate(mg/l)	1444.9	1609.60	1320.90	16.371	5.8	6.3	3.61	50.6	166.9	723.94	1469.4	1695.10	-
22	Sodium(mg/l)	7975.0	3875.0	3869.0	500.2	39.1	28.4	6.1	380.4	3193.0	725.0	763.2	10625.0	-
23	Total Dissolved Solids(mg/l)	22041.0	26934.0	4217.0	133.0	90.0	92.0	54.0	2465.0	5579.0	12780.0	20661.0	15648.0	-
24	Total Fixed Solids(mg/l)	13224.0	17507.0	2530.0	79.0	30.0	31.0	32.0	986.0	3570.0	7668.0	13771.0	9389.0	-
25	Total Suspended Solids(mg/l)	12.00	11.0	22.0	16.0	22.0	22.0	17.0	7.0	9.0	4.0	4.0	7.0	-
26	Phosphate(mg/l)	0.02	0.02	0.03	0.056	BDL	BDL	BDL	BDL	BDL	0.04	BDL	BDL	-
27	Boron(mg/l)	1.834	1.590	0.5	BDL	0.009	0.014	0.019	0.38	0.816	0.11449	0.3	1.2	-
28	Potassium(mg/l)	5700	1475.0	1470.0	250.1	28.2	10.3	1.7	228.1	1613.0	350.0	155.8	5300.0	-
29	Flouride(mg/l)	0.865	1.100	BDL	BDL	BDL	0.1	BDL	BDL	0.8	BDL	1.2	1.1	-
30	SAR	258.41	140.740	378.55	202.18	19.9	13.2	2.92	25.31	303.68	22.40	33.32	415.60	-
31	Percent Sodium (%)	-	-	-	98.39	89.7	80.6	47.24	57.4	95.6	33.92	46.68	92.41	-

RIVER TIRACOL AT KERI, PERNEM													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	28	29	30	29	29	30	30	28	30	30	31	-
2	Dissolved Oxygen(mg/l)	7.4	7.1	6.2	8.1	6.5	6.1	6.9	6.6	4.1	5.7	7.3	4.5	4 mg/l or more
3	pH	8.11	7.95	7.36	7.62	7.94	7.58	7.76	7.38	7.84	8.33	8.14	7.89	6.5 - 8.5
4	Conductivity(µs/cm)	47520.0	55550.0	55500.0	4370.0	168.7	25250.0	26560.0	28700.0	44240.0	48910.0	37130.0	50270.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.3	0.1	0.13	BDL	BDL	BDL	0.1	BDL	0.14	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.009	0.008	0.006	0.009	BDL	BDL	0.018	0.01	BDL	BDL	-
8	Total Coliform(MPN/100ml)	780	330	7900	7900	3200	4600	3300	1100	1700	1300	450	1600	-
9	Fecal Coliform(MPN/100ml)	450	230	4900	3300	2200	2300	2100	780	790	490	200	43	100 or less MPN/100 ml
10	Fecal Streptococci(MPN/100ml)	140	120	230	210	170	270	210	140	220	170	130	540	-
11	Turbidity(NTU)	5.5	3.28	10.50	20.1	13.87	5.67	5.11	4.01	2.57	3.04	3.53	2.77	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	0.0	BDL	BDL	BDL	BDL	12.0	BDL	BDL	-
13	Total Alkalinity(mg/l)	118.0	144.0	120.0	38.0	22.0	72.0	60.0	70.0	90.0	110.0	232.0	88.0	-
14	Chlorides(mg/l)	16744.8	16244.90	16744.80	1699.47	32.0	10371.0	11996.3	10496.7	12121.2	18994.11	17119.69	16494.9	-
15	COD(mg/l)	-	-	-	8.0	4.0	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.24	0.56	1.1	0.56	1.12	0.56	1.68	0.56	2.80	2.24	1.12	0.56	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	0.067	0.13	BDL	BDL	0.10	0.06	BDL	-
18	Total Hardness(mg/l)	6000.0	7000.0	6400.0	422.0	26.0	4000.0	4000.0	3600.0	4600.0	6400.0	8600.0	6000.0	-
19	Calcium(mg/l)	641.3	801.6	320.6	31.26	5.6	801.6	320.6	801.6	2000.0	480.96	721.44	400.8	-

20	Magnesium(mg/l)	1069.2	1215.00	1360.80	83.6	2.9	486.0	899.1	388.8	631.8	1263.6	1652.40	1215.0	-
21	Sulphate(mg/l)	2531.2	2294.20	1656.50	BDL	6.8	4.29	436.8	1111.8	379.1	3179.68	1459.20	1297.1	-
22	Sodium(mg/l)	3950.0	8575.0	8570.0	2384.0	12.5	10350.0	1090.2	8400.0	9020.0	3950.0	4175.0	1205.0	-
23	Total Dissolved Solids(mg/l)	26611.0	33330.0	33855.0	2463.0	101.0	14140.0	15035.0	16072.0	24447.0	29346.0	23763.0	30162.0	-
24	Total Fixed Solids(mg/l)	15966.0	23998.0	13542.0	1479.0	40.0	8484.0	5111.0	9643.0	8312.0	18834.0	14257.0	12065.0	-
25	Total Suspended Solids(mg/l)	18	19.0	18.0	23.0	10.0	9.0	11.0	9.0	5.0	95.0	4.0	6.0	-
26	Phosphate(mg/l)	0.049	BDL	BDL	0.02	BDL	0.02	0.58	0.02	0.03	0.05	BDL	0.03	-
27	Boron(mg/l)	1.847	0.900	0.500	0.27	0.011	1.42	1.142	3.873	2.781	3.34676	1.98	0.2	-
28	Potassium(mg/l)	1150.00	4050.00	4038.00	1059.0	3.9	3750.0	253.6	3300.0	540.0	2275.0	525.0	267.4	-
29	Flouride(mg/l)	1.183	1.13	1.1	0.4	BDL	0.972	1.0	1.424	BDL	BDL	BDL	0.5	-
30	SAR	135.07	279.49	295.57	314.58	6.1	407.91	44.15	344.31	336.93	133.76	121.18	42.4	-
31	Percent Sodium (%)	-	-	-	96.77	65.8	91.63	52.4	90.77	87.0	78.10	66.44	47.7	-

RIVER CHAPORA NEAR SIOLIM BRIDGE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	31	30	29	29	28	29	30	29	29	29	30	-
2	Dissolved Oxygen(mg/l)	6.1	6.2	4.7	7.2	7.1	8.1	5.5	6.2	5.3	5.7	6.9	6.0	4 mg/l or more
3	pH	7.91	7.97	7.28	7.81	7.79	7.72	8.0	7.45	7.86	7.84	8.07	7.94	6.5 - 8.5
4	Conductivity(µs/cm)	27730.0	59100.00	59260	2399	128.6	18490.0	36880.0	28480.0	39230.0	36090.0	26380.0	43860.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.6	0.2	1.5	BDL	0.3	BDL	0.1	BDL	0.14	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.021	0.006	0.05	0.013	0.006	0.009	0.012	0.02	0.020	BDL	-
8	Total Coliform(MPN/100ml)	490	2300	2300	240	1700	2100	2600	2200	2400	2200	2800	920	-
9	Fecal Coliform(MPN/100ml)	230	1300	450	79	780	1300	1700	1300	790	1300	1300	350	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	79	140	68	33	140	130	170	210	350	280	490	220	-
11	Turbidity(NTU)	5.4	3.90	15.33	9.43	15.58	4.60	2.52	1.78	3.12	2.84	6.78	2.85	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	76.0	136.0	122	30.0	26.0	72.0	54.0	72.0	76.0	88.0	168.0	78.0	-
14	Chlorides(mg/l)	9622	15495.20	16494.89	799.75	72.98	9372.0	12121.2	10371.78	11871.3	12246.20	16369.32	14995.4	-
15	COD(mg/l)	-	-	-	4.0	6.0	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.68	1.1	0.56	0.56	1.12	1.12	0.56	2.24	1.68	1.12	1.12	-
17	Ammonia (mg/l)	BDL	0.05	BDL	BDL	BDL	0.076	0.10	0.057	BDL	BDL	0.01	0.09	-
18	Total Hardness(mg/l)	2400.0	7600.0	9800	232	26.0	3600.0	4500.0	4000.0	4400.0	4400.0	8400.0	5200.0	-
19	Calcium(mg/l)	561.1	561.12	721.4	19.24	5.61	721.4	400.8	961.92	1800.0	320.64	801.6	481.0	-

20	Magnesium(mg/l)	243.0	1506.60	1944	44.7	2.9	437.4	850.5	388.8	631.8	874.8	1555.2	972.0	-
21	Sulphate(mg/l)	1259.9	2833.70	2156.3	BDL	6.61	4.74	362.7	1006.9	1377.7	2022.78	1273.6	8401.8	-
22	Sodium(mg/l)	1825.0	4120.0	4100	972.0	10.8	9675.0	965.7	10350.0	9020.0	2100.0	4075.0	1088.0	-
23	Total Dissolved Solids(mg/l)	15528.0	37824.0	36149.0	1357.0	78.0	10354.0	21150.0	15948.0	21996.0	22736.0	16883.0	26317.0	-
24	Total Fixed Solids(mg/l)	9316.0	22694.0	14460	815.0	47.0	6212.0	7191.0	9568.0	7478.0	16094.0	10129.0	10527.0	-
25	Total Suspended Solids(mg/l)	16	18.0	16	11.0	13.0	8.0	6.0	8.0	7.0	62.0	9.0	6.0	-
26	Phosphate(mg/l)	BDL	0.030	BDL	0.03	BDL	0.02	0.06	BDL	0.03	0.07	0.03	BDL	-
27	Boron(mg/l)	1.821	1.620	0.9	0.14	0.010	1.1	0.019	3.759	2.422	3.58	1.80	BDL	-
28	Potassium(mg/l)	550	2950.0	2949.0	419.0	7.5	3575.0	101.8	3750.0	510.0	2500.0	1375.0	238.9	-
29	Flouride(mg/l)	0.951	1.26	0.7	0.3	0.3	1.017	0.8	0.991	0.3	1.27	BDL	0.4	-
30	SAR	91.02	128.10	112.31	171.91	5.24	402.01	38.61	398.27	346.76	85.92	118.71	40.37	-
31	Percent Sodium (%)	-	-	-	95.61	68.26	91.96	46.0	91.26	87.6	79.37	69.81	47.7	-
RIVER SINQUERIM, CANDOLIM SIDE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	30	29	31	28	29	29	30	29	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.1	6.3	5.4	6.8	4.9	5.8	5.6	4.5	4.7	5.6	5.2	5.9	4 mg/l or more
3	pH	7.62	7.79	7.1	7.72	8.14	7.81	7.86	7.28	7.84	7.67	7.69	7.76	6.5 - 8.5
4	Conductivity(µs/cm)	59130.0	56750	17100	15860.0	20690.0	23430.0	43020.0	38800.0	47700.0	40890.0	36500.0	53550.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2	0.419	0.9	0.11	0.21	0.1	0.1	0.1	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.006	0.005	0.022	0.035	0.005	0.01	BDL	0.005	0.008	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	780	790	680	2700	1700	2800	2100	2200	2600	1700	1300	1600	-

9	Fecal Coliform(MPN/100ml)	450	490	480	1700	1300	1700	1300	1700	1700	1400	780	920	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	110	170	110	140	110	270	110	220	330	270	270	220	-
11	Turbidity(NTU)	20.9	8.49	16.29	9.82	14.71	12.15	5.56	3.4	3.59	4.66	14.26	3.14	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	8.0	10.0	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	108.0	130	84	50.0	56.0	66.0	78.0	78.0	92.0	124.0	124.0	92.0	-
14	Chlorides(mg/l)	17494.6	15620.2	7122.79	4623.6	7747.6	9622.02	14870.4	15245.27	16744.8	12621.1	15245.3	16744.8	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.2	1.681	2.8	0.56	0.56	0.56	0.56	0.56	1.12	2.80	1.10	-
17	Ammonia (mg/l)	BDL	0.03	0.17	BDL	BDL	0.10	BDL	BDL	BDL	0.11	BDL	0.06	-
18	Total Hardness(mg/l)	7400.0	7200	5200	2400.0	2220.0	5400.0	4800.0	5000.0	6800.0	5400.0	7200.0	7400.0	-
19	Calcium(mg/l)	801.6	641.2	1683.36	320.6	160.3	480.96	881.8	1042.08	641.3	641.3	1603.2	641.3	-
20	Magnesium(mg/l)	1301.4	1360.8	243	388.8	437.4	1020.6	631.8	583.20	1263.6	972.0	3188.20	1409.9	-
21	Sulphate(mg/l)	2510.4	1242.2	408.408	395.1	1073.0	677.95	1317.6	1692.19	1541.8	1937.6	2259.20	3086.6	-
22	Sodium(mg/l)	3530.0	3498	3498	3975.0	2910.0	32.8	3450.0	5052.0	11125.0	9600.0	2975.0	1549.0	-
23	Total Dissolved Solids(mg/l)	37251.0	36320	9747	10729.0	12207.0	14995.0	25812.0	22171.0	30528.0	22497.0	20440.0	35586.0	-
24	Total Fixed Solids(mg/l)	24213.0	21792	5848	3579.0	8544.0	8997.0	17552.0	13309.0	18317.0	7648.0	12264.0	11861.0	-
25	Total Suspended Solids(mg/l)	24	11	3	24.0	21.0	13.0	13.0	12.0	9.0	11.0	20.0	22.0	-
26	Phosphate(mg/l)	0.05	0.08	0.044	0.03	0.03	BDL	0.05	0.05	0.02	0.06	0.05	BDL	-
27	Boron(mg/l)	1.28	0.3	1.619	1.05	1.36	0.125	1.481	1.934	4.687	2.823	0.352	0.6	-
28	Potassium(mg/l)	760.00	748	748	1625.0	1460.0	17.9	1593.0	2270.0	500.0	1275.0	1487.5	336.6	-
29	Flouride(mg/l)	1.3	0.9	0.883	0.6	0.86	0.03	1.5	1.7	1.4	0.8	1.35	1.1	-
30	SAR	108.87	110.56	112.71	211.1	168.33	1.2	125.41	177.22	360.48	338.0	86.23	48.37	-
31	Percent Sodium (%)	-	-	-	88.8	87.97	3.27	76.91	81.83	85.92	87.1	65.21	47.9	-

RIVER SINQUERIM, NEAR GANPATI TEMPLE													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	30	29	31	28	29	29	30	29	30	30	31	-
2	Dissolved Oxygen(mg/l)	4.8	6.4	5.2	6.8	5.7	6.1	6.3	4.3	4.0	5.8	7.0	6.2	4 mg/l or more
3	pH	7.55	7.95	7.29	7.64	8.23	7.90	7.99	7.26	7.94	7.81	7.8	7.60	6.5 - 8.5
4	Conductivity(µs/cm)	53250.0	58600.0	20440.0	15770.0	20120.0	74550.0	46590.0	53140.0	47800.0	40570.0	41050.0	53920.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	0.2	0.4	0.8	0.14	0.21	0.1	BDL	0.1	0.1	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005	BDL	0.021	0.032	0.010	0.01	BDL	BDL	0.008	0.008	BDL	BDL	-
8	Total Coliform(MPN/100ml)	1100	940	1100	3300	3400	4900	2300	4600	4000	2100	2300	920	-
9	Fecal Coliform(MPN/100ml)	490	490	450	2100	2200	2300	1300	3300	2700	1700	780	540	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	110	130	120	170	210	490	320	400	460	330	130	170	-
11	Turbidity(NTU)	13.3	8.52	17.19	10.90	13.71	11.7	6.62	3.11	7.40	4.76	12.98	3.10	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	4.0	10.0	8.0	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	114.0	140.0	64.0	50.0	54.0	76.0	78.0	78.0	92.0	126.0	124.0	98.0	-
14	Chlorides(mg/l)	14495.5	15995.00	8747.29	4623.60	7347.70	10371.78	15995.0	17494.58	16994.7	12496.1	14995.4	16994.7	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.2	1.7	1.12	3.4	0.56	1.12	0.56	0.56	1.12	1.68	2.80	2.80	-
17	Ammonia (mg/l)	BDL	0.020	0.23	BDL	BDL	0.11	0.05	BDL	0.05	0.11	BDL	BDL	-
18	Total Hardness(mg/l)	7400.0	7200.0	5000.0	2600.0	2120.0	4800.0	5400.0	5000.0	6400.0	5000.0	10000.0	7600.0	-
19	Calcium(mg/l)	641.3	561.12	240.50	240.1	152.3	561.12	801.6	961.92	721.4	481.0	2004.0	881.8	-

20	Magnesium(mg/l)	1409.4	1409.40	1069.20	486.0	422.8	826.3	826.2	631.80	1117.8	923.4	4981.50	1312.2	-
21	Sulphate(mg/l)	3430.4	1268.20	634.00	387.7	1079.6	581.1	1517.5	1992.86	5898.5	2469.9	2067.20	2841.9	-
22	Sodium(mg/l)	4400.0	4392.0	4390.0	3860.0	2800.0	35.0	5010.0	3482.0	13050.0	9800.0	3000.0	1477.0	-
23	Total Dissolved Solids(mg/l)	34496.0	37504.0	13082.0	9867.0	11670.0	47712.0	27022.0	28148.0	30592.0	22492.0	22988.0	35910.0	-
24	Total Fixed Solids(mg/l)	14449.0	22502.0	7849.0	3291.0	8519.0	28627.0	17294.0	16890.0	18355.0	7647.0	13792.0	11958.0	-
25	Total Suspended Solids(mg/l)	17.00	12.0	22.0	22.0	22.0	11.0	15.0	11.0	13.0	10.0	20.0	20.0	-
26	Phosphate(mg/l)	BDL	0.11	0.02	0.03	0.13	BDL	0.05	0.06	0.03	0.06	0.08	0.04	-
27	Boron(mg/l)	0.2	0.3	0.9	1.11	1.30	0.150	1.498	8.808	4.974	2.80824	0.389	0.6	-
28	Potassium(mg/l)	650.00	657.0	655.0	1585.0	1410.0	17.0	2204.0	1590.0	700.0	1275.0	2600.0	322.4	-
29	Flouride(mg/l)	0.8	1.0	1.6	0.7	0.84	0.2	1.5	1.7	1.4	0.9	1.64	1.1	-
30	SAR	137.41	74.13	171.55	202.5	165.12	1.33	175.61	123.35	430.33	369.8	74.78	44.59	-
31	Percent Sodium (%)	-	-	-	88.1	88.0	3.61	81.59	76.09	88.20	88.7	63.50	45.1	-
RIVER SAL AT RUMDER, NUVEM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	28	28	28	28	28	29	29	29	29	31	-
2	Dissolved Oxygen(mg/l)	3.2	4.9	5.2	5.0	6.0	5.3	6.0	4.9	2.3	1.5	2.9	3.3	4 mg/l or more
3	pH	5.56	6.36	6.88	7.35	7.78	6.79	7.92	6.43	6.64	6.9	6.6	6.94	6.5 - 8.5
4	Conductivity(µs/cm)	125.1	132	174.10	88.60	96.99	1527.0	150	117.6	132.4	104.0	86.22	156.4	-
5	BOD(mg/l)	6	BDL	BDL	BDL	0.9	BDL	BDL	BDL	3.2	5.0	5.6	4.2	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.9	0.9	0.3	0.5	0.3	0.1	BDL	0.1	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.01	0.04	0.04	0.01	0.01	0.012	0.011	BDL	BDL	BDL	0.008	-
8	Total Coliform(MPN/100ml)	23×10^2	2100	1300	2200	4900	2000	2300	2600	4000	3500	3100	350	-

9	Fecal Coliform(MPN/100ml)	13×10^2	1700	790	1400	2300	1400	1300	1700	2700	2200	2300	220	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	280	220	140	140	230	170	210	170	270	170	220	94	-
11	Turbidity(NTU)	25.40	23.20	41.45	34.10	21.50	8.24	19.4	5.82	6.40	21.3	12.5	17.04	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	36	38	36.0	24.0	26.0	30.0	34.0	42.0	26.0	16.0	30.0	34.0	-
14	Chlorides(mg/l)	11.5	26.4	16.5	11.00	12.0	22.0	22.99	14.5	22.5	39.9	29.5	16.99	-
15	COD(mg/l)	20.0	6.0	12.0	8.0	8.0	10.0	8.0	10.0	20.0	18.0	20.0	16.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	2.80	1.12	2.8	0.56	0.56	2.80	0.56	1.12	1.12	1.12	1.12	-
17	Ammonia (mg/l)	0.08	0.51	0.15	0.08	0.08	0.05	0.34	0.08	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	30.0	34.0	28.0	28.0	24.0	28.0	34.0	72.0	66.0	46.0	54.0	40.0	-
19	Calcium(mg/l)	8.82	8.82	7.2	6.4	6.41	8.8	8.02	20.0	10.4	8.8	12.8	20.04	-
20	Magnesium(mg/l)	1.9	2.91	2.4	2.90	1.9	1.5	3.4	5.4	9.7	5.8	5.4	2.4	-
21	Sulphate(mg/l)	2.83	10.94	14.8	12.9	10.6	7.3	17.32	6.5	21.7	7.8	5.8	12.59	-
22	Sodium(mg/l)	32.4	41.5	39.0	21.0	5.4	99.0	9.6	32.4	23.6	19.9	33.4	45.9	-
23	Total Dissolved Solids(mg/l)	80.0	90.0	115.0	54.0	62.0	977.0	84.0	75.0	85.0	64.0	55.0	87.0	-
24	Total Fixed Solids(mg/l)	48.0	54.0	69.0	22.0	37.0	586.0	51.0	45.0	51.0	43.0	33.0	52.0	-
25	Total Suspended Solids(mg/l)	38.0	28.0	52.0	22.0	4.0	12.0	22.0	15.0	11.0	23.0	11.0	22.0	-
26	Phosphate(mg/l)	BDL	0.06	0.03	BDL	0.07	BDL	BDL	0.05	0.02	BDL	BDL	0.03	-
27	Boron(mg/l)	1.76	0.8	0.6	BDL	0.0	0.021	BDL	BDL	BDL	0.0138	0.6	0.508	-
28	Potassium(mg/l)	29.5	35.2	30.0	7.2	4.0	34.5	3.2	29.6	2.6	10.3	2.5	39.3	-
29	Flouride(mg/l)	0.30	0.39	BDL	BDL	BDL	0.2	BDL	0.1	BDL	0.3	0.2	0.279	-
30	SAR	13.97	17.13	17.76	9.70	2.64	43.7	4.02	9.09	7.44	7.37	11.08	13.70	-
31	Percent Sodium (%)	-	-	-	75.1	52.96	92.9	52.85	70.95	56.54	67.41	66.38	79.15	-

RIVER SAL AT PAZORCONI, CUNCOLIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	27	28	27	28	29	30	28	29	31	-
2	Dissolved Oxygen(mg/l)	4.5	6.9	6.3	6.6	7.0	6.6	7.8	5.80	5.5	6.4	5.2	5.8	4 mg/l or more
3	pH	6.4	6.78	7.38	7.83	7.44	6.59	6.89	6.7	6.67	6.76	7.0	7.5	6.5 - 8.5
4	Conductivity(µs/cm)	104.2	72	80.65	71.30	58.15	94.38	92	80.9	90.74	91.44	82.59	10.1	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2	0.11	0.300	0.215	0.3	0.1	0.2	0.2	BDL	0.11	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	BDL	0.01	0.008	0.009	BDL	BDL	0.007	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	4900	3300	7900	3300	3300	940	1400	1100	7000	4900	3500	1600	-
9	Fecal Coliform(MPN/100ml)	3300	2300	3300	2300	1700	490	1100	780	3300	2300	1300	920	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	330	240	230	210	170	170	130	150	490	490	540	350	-
11	Turbidity(NTU)	3.33	3.87	6.23	29.5	18.90	5.97	4.61	10.9	3.87	8.13	3.34	6.2	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	22	28	24.0	20.0	28.0	24.0	24.0	68.0	20.0	18.0	14.0	38.0	-
14	Chlorides(mg/l)	4.5	7.5	12.0	9.5	7.0	9.0	9.0	20.0	12.5	11.5	8,997	12.5	-
15	COD(mg/l)	6.0	8.0	6.0	6.0	4.0	6.0	8.0	8.0	6.0	6.0	10.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	2.2	1.7	1.12	2.24	2.24	1.68	1.12	2.24	2.24	0.56	1.7	0.56	-
17	Ammonia (mg/l)	BDL	BDL	0.12	0.06	0.02	0.17	0.08	BDL	BDL	BDL	0.06	BDL	-
18	Total Hardness(mg/l)	16.0	24.0	20.0	100.0	38.0	24.0	60.0	144.0	20.0	42.0	78.0	40.0	-
19	Calcium(mg/l)	4.0	4.8	4.81	15.20	8.02	4.00	4.8	4.0	4.8	5.6	11.2	6.4	-

20	Magnesium(mg/l)	BDL	BDL	BDL	15.1	4.4	3.4	11.7	32.6	1.9	6.8	12.2	5.8	-
21	Sulphate(mg/l)	5.6	5.4	8.79	8.30	10.63	6.50	5.1	9.6	6.8	11.8	17.3	9.0	-
22	Sodium(mg/l)	26.3	3.7	4.2	10.7	33.8	19.3	29.2	24.2	21.0	20.8	22.1	29.4	-
23	Total Dissolved Solids(mg/l)	63.0	42.0	48.0	44.0	33.0	54.0	59.0	54.0	60.0	55.0	50.0	6.0	-
24	Total Fixed Solids(mg/l)	25.0	17.0	32.0	18.0	19.0	34.0	35.0	18.0	20.0	22.0	20.0	4.0	-
25	Total Suspended Solids(mg/l)	8.0	5.0	10.0	18.0	32.0	12.0	7.0	8.0	7.0	10.0	8.0	11.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.03	0.03	0.03	BDL	0.02	BDL	0.02	0.06	BDL	-
27	Boron(mg/l)	BDL	0.3	0.69	0.01	0.03	0.003	0.011	0.002	BDL	0.0179	0.3	0.6	-
28	Potassium(mg/l)	24.9	2.0	2.3	5.1	16.9	10.4	28.4	18.1	3.6	9.3	2.7	1.8	-
29	Flouride(mg/l)	BDL	BDL	0.25	0.20	0.45	0.4	BDL	BDL	0.3	BDL	BDL	0.2	-
30	SAR	15.92	2.0	2.29	2.70	13.58	10.03	10.18	5.66	11.47	8.4	6.5	11.88	-
31	Percent Sodium (%)	-	-	-	34.30	79.27	80.05	77.76	53.6	78.59	70.8	51.5	71.82	-

RIVER SAL AT MOBOR

Sr. No		**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	31	28	29	29	29	29	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.5	5.4	6.1	5.3	7.0	5.1	5.9	6.8	4.1	7.8	4.2	8.0	4 mg/l or more
3	pH	7.87	7.78	9.25	7.25	8.49	7.86	7.8	8.06	7.76	7.85	7.69	7.08	6.5 - 8.5
4	Conductivity(µs/cm)	42080.0	59350	62560.0	38370.00	21440.0	43480.0	62560	49750.0	54920.0	43220.0	35060.0	52240.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.5	BDL	0.2	0.2	0.2	0.32	0.2	0.15	0.128	0.100	0.380	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.291	0.006	BDL	0.021	0.009	BDL	BDL	0.005	0.03	BDL	0.008	0.011	-
8	Total Coliform(MPN/100ml)	1100	790	920	4900	2200	1700	1400	1300	3300	2300	13000	920	-
9	Fecal	450	330	450	1300	1100	1100	1100	780	1300	1300	3300	430	100 or less MPN/100 ml

	Coliform(MPN/100ml)													
10	Fecal Streptococci (MPN/100ml)	120	110	110	170	140	130	110	120	220	130	220	540	-
11	Turbidity(NTU)	35.6	5.95	2.15	12.89	14.31	4.84	2.08	1.59	3.08	1.70	21.2	8.74	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	14.0	BDL	0.0	14.0	14.0	BDL	2.0	14.0	BDL	BDL	-
13	Total Alkalinity(mg/l)	106.0	134	24.0	78.0	50.0	112.0	24.0	82.0	88.0	106.0	110.0	116.0	-
14	Chlorides(mg/l)	14995.4	15995.0	18119.4	15495.20	6872.9	16369.92	17119.60	16869.8	15370.23	16494.9	16869.8	17369.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.8	0.6	1.681	1120.00	1.120	1.68	1.7	1.12	0.56	1.68	1.68	1.1	-
17	Ammonia (mg/l)	BDL	BDL	BDL	0.06	BDL	BDL	BDL	0.11	BDL	2.96	0.09	BDL	-
18	Total Hardness(mg/l)	2500.0	7000.0	7800.0	4800.0	4000.0	5400.0	7800.0	5600.0	6000.0	6800.0	8000.0	8600.0	-
19	Calcium(mg/l)	160.3	561.12	801.6	320.60	240.5	400.8	801.6	561.1	561.12	481.00	400.80	961.9	-
20	Magnesium(mg/l)	510.3	1360.8	1409.4	972.0	826.2	1069.2	1409.0	1020.6	1117.8	1360.8	1701.0	1506.6	-
21	Sulphate(mg/l)	151.6	2921.0	973.9	1416.00	306.8	1355.9	991.9	1776.1	1315.48	1107.20	627.20	2690.1	-
22	Sodium(mg/l)	3225.0	4790.0	4780.0	1290.0	5266.0	4750.0	4781.0	4400.0	14900.0	9100.0	914.5	9575.0	-
23	Total Dissolved Solids(mg/l)	27581.0	39171.0	39319.0	24557.0	13.0	27827.0	37528.0	29850.0	34050.0	27661.0	21036.0	33433.0	-
24	Total Fixed Solids(mg/l)	10064.0	23503.0	13229.0	14734.0	5.0	11130.0	15011.0	19104.0	20430.0	16597.0	8414.0	20059.0	-
25	Total Suspended Solids(mg/l)	63.0	19.0	8.0	16.0	12.0	6.0	8.0	5.0	3.0	3.0	35.0	11.0	-
26	Phosphate(mg/l)	0.03	BDL	0.04	0.04	0.03	0.08	0.04	0.08	0.03	0.03	0.06	0.03	-
27	Boron(mg/l)	0.7	1.6	0.5	2.3	1.2	3.01	BDL	0.182	3,243	3.26474	0.9	1.9	-
28	Potassium(mg/l)	400.0	2920.0	2910	330	925	4000.0	2908.0	2130.0	7450.0	2150.0	183.4	7400.0	-
29	Flouride(mg/l)	BDL	1.35	1.4	0.7	0.9	0.9	1.4	1.03	BDL	1.30	1.4	BDL	-
30	SAR	176.12	154.5	143.76	50.7	228.02	175.2	143.8	156.46	514.26	299.87	28.2	272.54	-
31	Percent Sodium (%)	-	-	-	55.6	85.30	85.62	77.67	80.5	93.0	85.93	34.31	87.3	-

RIVER ZUARI AT PANCHAWADI														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	27	28	28	28	30	29	30	30	29	-
2	Dissolved Oxygen(mg/l)	6.7	5.7	5.2	6.9	7.6	8.0	5.5	6.9	5.1	6.0	6.6	5.6	4 mg/l or more
3	pH	6.76	6.55	7.06	7.63	6.61	6.70	7.16	7.32	6.23	6.68	6.94	6.8	6.5 - 8.5
4	Conductivity(µs/cm)	12640.0	13700	636.6	86.5	103.8	59.89	2092	4277.00	5170.0	12080.0	18940.0	15260.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.4	0.2	0.17	0.2	0.2	0.21	0.46	0.4	0.30	1.0	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.009	BDL	0.009	0.005	0.005	BDL	BDL	BDL	0.014	0.043	0.04	0.021	-
8	Total Coliform(MPN/100ml)	490	780	1300	3300	1700	1400	2300	1700	450	350	700	920	-
9	Fecal Coliform(MPN/100ml)	230	450	780	1700	940	790	1300	1100	200	170	330	540	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	110	170	170	140	220	170	280	210	130	110	170	280	-
11	Turbidity(NTU)	21.0	29.2	5.4	12.4	14.4	6.17	4.01	4.73	3.71	4.78	4.41	4.3	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	50	66	36	30	20	16.0	24.0	42.0	30.0	52.0	44.0	48.0	-
14	Chlorides(mg/l)	2799.10	5998.1	2124.3	13.5	20.0	9.49	749.77	2749.15	2049.40	4498.6	8872.25	4798.5	-
15	COD(mg/l)	-	-	-	4.0	10.0	6.0	8.0	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.1	1.1	0.56	2.8	2.24	1.12	0.56	1.68	2.2	1.12	1.68	-
17	Ammonia (mg/l)	BDL	BDL	0.07	0.05	0.23	BDL	BDL	BDL	BDL	BDL	0.54	0.10	-
18	Total Hardness(mg/l)	1320.0	2600.0	600.0	20.0	30.0	24.0	18.0	2000.0	1600.0	2000.0	4800.0	1520.0	-
19	Calcium(mg/l)	96.19	400.8	160.3	6.4	7.2	6.41	5.61	80.16	320.6	561.1	561.12	144.3	-

20	Magnesium(mg/l)	262.40	388.8	48.6	BDL	2.9	BDL	BDL	437.4	194.4	145.8	826.20	281.9	-
21	Sulphate(mg/l)	456.80	253.6	2092.0	11.2	11.3	3.07	78.32	1272.63	1114.0	494.0	307.20	456.9	-
22	Sodium(mg/l)	1500.0	1425.0	1419.0	5.8	30.8	45.2	10.6	2800.0	211.1	401.2	4475.0	630.0	-
23	Total Dissolved Solids(mg/l)	7078.0	8830.0	382.0	51.0	663.0	39.0	1341.0	2737.0	3309.0	7903.0	12121.0	9766.0	-
24	Total Fixed Solids(mg/l)	4246.0	2973.0	153.0	30.0	25.0	22.0	802.0	1642.0	1324.0	2660.0	7272.0	5860.0	-
25	Total Suspended Solids(mg/l)	24.0	15.0	8.0	11.0	21.0	13.0	6.0	5.0	5.0	19.0	8.0	9.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	BDL	0.090	BDL	BDL	BDL	0.06	BDL	0.03	BDL	-
27	Boron(mg/l)	1.764	0.6	0.2	BDL	0.0	0.009	0.075	0.33	0.16	0.726	1.83	0.6	-
28	Potassium(mg/l)	700.0	179.9	178.1	3.2	12.2	21.2	4.6	1600.0	108.0	74.3	3750.0	320.0	-
29	Flouride(mg/l)	0.733	1.0	BDL	0.3	0.3	BDL	BDL	BDL	0.1	0.8	BDL	0.7	-
30	SAR	112.02	71.717	138.84	3.02	13.70	22.12	5.84	174.06	13.2	20.1	169.91	43.16	-
31	Percent Sodium (%)	-	-	-	54.95	80.90	88.33	69.79	89.48	38.30	37.37	85.57	69.03	-
RIVER ZUARI AT CORTALIM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	28	28	28	28	29	29	29	29	31	-
2	Dissolved Oxygen(mg/l)	5.5	5.9	5.0	6.2	7.5	5.2	6.1	6.0	4.8	5.7	7.2	6.1	4 mg/l or more
3	pH	8.54	7.48	8.08	7.51	7.42	7.49	6.75	7.17	7.16	7.18	7.60	7.58	6.5 - 8.5
4	Conductivity(µs/cm)	45430	53260	55770.0	4645.00	3687.0	30670.0	29840	12820.0	38630.0	46900.0	24640.0	36530.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	2.8	BDL	1.0	0.2	0.2	0.5	BDL	0.2	0.1	0.7	0.4	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.008	BDL	0.06	0.02	0.02	0.01	BDL	0.007	0.024	0.03	0.03	0.03	-
8	Total Coliform(MPN/100ml)	2300	1400	450	2300	3300	3100	2300	2100	2700	1700	2100	350	-
9	Fecal	1300	790	200	1700	2300	2300	1300	1300	1700	780	1300	240	100 or less MPN/100 ml

	Coliform(MPN/100ml)													
10	Fecal Streptococci (MPN/100ml)	130	110	78	140	490	330	240	260	270	330	220	170	-
11	Turbidity(NTU)	13.61	16.21	19.65	31.60	25.20	9.05	8.77	9.31	12.35	32.1	22.6	53.6	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	16.0	BDL	BDL	BDL	BDL	4.0	4.0	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	54	116	112	38.0	12	58.0	64.0	82.0	74.0	120.0	78.0	84.0	-
14	Chlorides(mg/l)	11996.3	17000.0	15495.2	1649.00	2499.2	11996.3	10621.7	10946.6	16869.8	16869.8	16744.8	15745.1	-
15	COD(mg/l)	-	-	-	8	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	3.9	1.681	0.56	1.12	1.12	1.68	1.12	1.12	0.56	0.56	0.56	0.56	-
17	Ammonia (mg/l)	0.07	0.053	BDL	0.1	0.019	0.11	0.08	0.13	BDL	BDL	BDL	0.06	-
18	Total Hardness(mg/l)	9500.0	660.0	9200.0	448.0	362.0	3440.0	3560.0	1220.0	4600.0	6600.0	6600.0	9800.0	-
19	Calcium(mg/l)	601.2	72.14	1603.2	35.3	56.9	256.5	288.6	304.6	481.0	480.9	481.0	1442.0	-
20	Magnesium(mg/l)	1944.0	116.64	1263.6	87.5	53.5	680.4	690.1	111.8	826.2	1312.2	1312.2	1506.6	-
21	Sulphate(mg/l)	1652.8	1317.34	2320.5	187.6	853	1147.3	740.3	2363.5	1499.4	1902.1	838.4	1523.9	-
22	Sodium(mg/l)	2325.0	3575.0	3578.0	1439.00	1100.0	4835.0	9700.0	3120.0	8000.0	6800.0	9625.0	10095.2	-
23	Total Dissolved Solids(mg/l)	30236.0	36216.0	34577.0	2833.0	2359.0	19629.0	19098.0	8205.0	24723.0	28140.0	15770.0	20456.0	-
24	Total Fixed Solids(mg/l)	10118.0	21729.0	20746.0	2040.0	1415.0	11777.0	11459.0	4923.0	14834.0	17165.0	9462.0	12273.0	-
25	Total Suspended Solids(mg/l)	157.0	11.0	32.0	21.0	5.0	21.0	12.0	12.0	13.0	24.0	11.0	68.0	-
26	Phosphate(mg/l)	0.03	0.065	0.07	0.06	0.04	0.03	0.02	0.06	0.07	0.06	0.03	BDL	-
27	Boron(mg/l)	0.7	1.987	0.9	0.3	2.6	2,075	1,340	0.639	3,297	2.677	1.9	0.624	-
28	Potassium(mg/l)	1375.0	2450.0	2454.0	420.0	875.0	1400.0	5250.0	2830.0	650.0	3429.0	650.0	5047.6	-
29	Flouride(mg/l)	0.8	1.172	1.3	BDL	BDL	0.9	1.0	0.9	1.2	1.0	1.3	0.884	-
30	SAR	65.17	367.97	94.51	183.70	148.08	223.4	438.49	216.23	312.93	227.1	321.44	262.92	-
31	Percent Sodium (%)	-	-	-	93.8	94.71	86.9	93.86	93.46	86.87	85.14	85.14	77.83	-

RIVER SAL AT ORLIM BRIDGE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	31	28	29	28	29	28	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	4.6	6.6	5.6	3.8	5.6	4.2	5.6	2.6	3.0	4.1	1.8	5.2	4 mg/l or more
3	pH	6.91	7.79	7.11	6.8	7.70	6.87	6.51	6.95	6.98	7.56	7.45	7.83	6.5 - 8.5
4	Conductivity(µs/cm)	8711.0	27890	26120.0	513.5	195.5	2020.0	26120	1406.0	13450.0	26650.0	18980.0	33830.0	-
5	BOD(mg/l)	BDL	BDL	BDL	2.4	1.7	BDL	BDL	5.4	5.2	BDL	5.4	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	0.34	0.415	0.92	BDL	0.2	0.2	2.1	1.6	0.2	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.027	0.005	0.014	0.028	0.015	0.023	0.011	0.01	0.018	0.060	0.039	0.020	-
8	Total Coliform(MPN/100ml)	1100	790	1700	3300	3100	2400	2100	2300	1700	5400	2700	350	-
9	Fecal Coliform(MPN/100ml)	780	490	780	1300	1300	1400	1300	1300	1100	1300	1700	280	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	400	330	390	330	320	210	170	210	200	230	130	170	-
11	Turbidity(NTU)	20.16	8.14	5.61	13.35	10.75	6.72	5.61	5.39	0.65	2.66	2.09	6.59	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	92.0	110	102.0	40.0	32.0	48.0	102.0	82.0	74.0	106.0	96.0	94.0	-
14	Chlorides(mg/l)	2849.12	11496.4	10371.78	88.50	33.49	143.5	10371.0	414.9	4648.6	12621.1	7247.80	14870.4	-
15	COD(mg/l)	-	-	-	8.0	8.0	6.0	-	18.0	20.0	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.24	2.8	0.56	1.12	0.56	1.12	0.56	1.68	1.7	1.1	1.12	0.56	-
17	Ammonia (mg/l)	1.12	0.12	BDL	0.18	0.137	0.23	BDL	0.11	0.11	0.37	BDL	0.09	-
18	Total Hardness(mg/l)	98.0	4400.0	3800.0	76.0	38.0	78.0	4000.0	234.0	5000.0	4200	9500.0	5000.0	-
19	Calcium(mg/l)	8.81	881.8	400.8	12.8	8.0	11.2	881.8	47.3	400.8	561.1	400.8	641.3	-

20	Magnesium(mg/l)	18.47	534.6	680.4	10.7	4.4	12.2	437.4	28.1	972.0	680.4	2065.5	826.2	-
21	Sulphate(mg/l)	224.53	617.5	942.48	26.60	12.21	33.0	917.9	119.4	364.9	674.3	524.8	1267.6	-
22	Sodium(mg/l)	1250.0	4050.0	4054.0	483.0	30.3	27.2	4014.0	245.0	245.0	7725.0	454.6	9375.0	-
23	Total Dissolved Solids(mg/l)	5137.0	1801.0	11627.0	298.0	109.0	1292.0	15670.0	815.0	8070.0	17056.0	11388.0	21651.0	-
24	Total Fixed Solids(mg/l)	3080.0	6060.0	6976.0	214.0	65.0	516.0	626.0	521.0	3228.0	10234.0	4555.0	12990.0	-
25	Total Suspended Solids(mg/l)	39.0	12.0	14.0	21.0	20.0	10.0	10.0	11.0	4.0	4.0	5.0	12.0	-
26	Phosphate(mg/l)	0.28	0.03	0.218	0.100	0.058	0.10	0.23	0.02	0.02	0.19	0.09	0.56	-
27	Boron(mg/l)	1.3	0.3	0.747	0.040	0.036	0.073	0.224	3,770	0.354	1.63	0.9	1.4	-
28	Potassium(mg/l)	850.0	2920.0	2983.0	203.0	13.5	21.3	2883.0	123.4	121.0	107.5	106.4	2900.0	-
29	Flouride(mg/l)	0.5	1.0	0.688	BDL	0.319	BDL	0.7	BDL	0.1	1.3	1.1	0.3	-
30	SAR	338.46	152.20	174.36	140.91	12.17	8.0	156.3	39.9	9.4	310.05	14.10	346.10	-
31	Percent Sodium (%)	-	-	-	96.69	77.94	67.48	83.94	83.01	21	86.32	21.2	89.32	-
RIVER SAL AT KHAREBAND, MARGAO														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	30	28	29	28	29	28	30	30	30	29	30	-
2	Dissolved Oxygen(mg/l)	BDL	0.4	BDL	4.2	2.8	4.1	2.8	2.4	1.0	BDL	0.0	BDL	4 mg/l or more
3	pH	6.46	6.57	6.73	6.84	7.76	6.85	6.49	6.66	7.01	7.08	6.96	6.60	6.5 - 8.5
4	Conductivity(µs/cm)	164.9	255	245.8	175.20	109.3	1692.0	246	179.4	197.5	225.7	269.4	388.1	-
5	BOD(mg/l)	4.7	5.6	6.0	BDL	6.0	BDL	6.0	6.0	5.1	5.6	6.0	5.4	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	BDL	0.105	0.46	BDL	0.68	0.16	0.2	BDL	0.9	0.38	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.032	0.007	0.018	0.036	0.011	0.021	0.006	0.01	0.01	0.012	0.011	0.013	-
8	Total Coliform(MPN/100ml)	220×10^2	240×10^2	11000	$170X10^2$	$140X10^2$	13000	11000	7000	9200	11000	92000	1600	-

9	Fecal Coliform(MPN/100ml)	94×10^2	79×10^2	7900	$130X10^2$	$79X10^2$	7900	4900	4600	3500	4900	24000	540	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	1400	790	1100	700	490	700	490	470	540	460	490	350	-
11	Turbidity(NTU)	20.91	19.20	4.90	21.6	14.90	11.07	2.90	12.10	16.38	7.06	11.34	11.22	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	54.0	64	72.0	38.0	38.0	40.0	64.0	46.0	46.0	72.0	68.0	88.0	-
14	Chlorides(mg/l)	17.99	35.5	27.99	25.99	10.99	35.5	26.5	22.0	12.99	29.50	41.5	42.5	-
15	COD(mg/l)	14.0	20.0	20.0	16.0	20.0	8.0	20.0	20.0	16.0	20.0	20.0	18.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	2.8	0.56	1.12	1.12	0.56	2.24	1.68	1.12	1.68	2.24	2.24	-
17	Ammonia (mg/l)	0.85	0.38	3.014	0.165	0.15	0.29	1.13	0.3	0.53	2.76	0.10	1.66	-
18	Total Hardness(mg/l)	40.0	58.0	58.0	38.0	38.0	36.0	56.0	42.0	132.0	52.0	68.0	92.0	-
19	Calcium(mg/l)	12.02	16.8	12.02	15.23	11.22	10.4	14.4	8.8	12.83	13.60	12.8	14.4	-
20	Magnesium(mg/l)	2.43	3.9	6.804	4,374	2.430	2.4	4.9	4.8	24.3	4.4	8.8	13.6	-
21	Sulphate(mg/l)	5.675	12.9	12.42	12.52	20.98	15.4	11.9	8.1	14.15	14.1	16.5	23.9	-
22	Sodium(mg/l)	9.6	41.9	42.5	265.3	33.4	19.0	36.2	11.5	37.1	33.6	38.4	35.9	-
23	Total Dissolved Solids(mg/l)	103.0	170.0	138.0	98.0	61.0	1082.0	143.0	109.0	112.0	144.0	162.0	240.0	-
24	Total Fixed Solids(mg/l)	63.0	113.0	83.0	58.0	37.0	432.0	47.0	73.0	67.0	86.0	65.0	144.0	-
25	Total Suspended Solids(mg/l)	33.0	14.0	12.0	35.0	28.0	16.0	7.0	21.0	17.0	12.0	20.0	16.0	-
26	Phosphate(mg/l)	0.08	0.05	0.483	0.082	0.051	0.07	0.10	0.12	0.19	0.26	0.19	0.05	-
27	Boron(mg/l)	1.1	0.2	0.68	0.01	0.01	0.075	BDL	0.013	BDL	0.02055	0.6	1.3	-
28	Potassium(mg/l)	4.6	29.4	28.2	183.00	16.7	15.1	10.5	6.0	17.6	9.0	6.7	26.6	-
29	Flouride(mg/l)	BDL	0.3	BDL	BDL	0.357	0.4	0.9	BDL	BDL	0.3	0.4	BDL	-
30	SAR	3.57	13.02	13.85	84.74	12.78	7.5	11.7	4.41	8.61	11.20	11.7	9.59	-
31	Percent Sodium (%)	-	-	-	95.81	78.59	72.6	70.8	56.27	59.57	70.30	67.64	69.03	-

RIVER ZUARI AT MADKAI JETTY														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	27	29	28	28	29	30	28	30	30	31	-
2	Dissolved Oxygen(mg/l)	4.7	5.2	5.1	6.2	6.6	6.9	7.3	4.9	4.6	6.1	6.1	5.5	4 mg/l or more
3	pH	7.73	7.54	6.87	6.59	8.25	7.01	7.8	7.50	7.88	8.64	7.20	7.24	6.5 - 8.5
4	Conductivity(µs/cm)	48640.0	54510	20110.0	9490.0	3844.0	22010.0	36470	37480.0	42630.0	46060.0	35860.0	50730.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	BDL	0.88	0.8	0.10	0.19	0.30	0.3	0.15	0.80	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.022	BDL	0.100	0.031	BDL	0.01	BDL	0.015	0.02	0.016	0.042	0.022	-
8	Total Coliform(MPN/100ml)	78	170	230	1100	2700	4600	450	1300	2000	1700	1700	1600	-
9	Fecal Coliform(MPN/100ml)	45	130	130	780	1700	2300	200	780	920	1300	780	350	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	23	92	92	140	200	68	130	140	240	460	210	240	-
11	Turbidity(NTU)	18.18	5.87	7.84	18.55	27.00	21.60	6.40	6.12	7.30	6.0	8.70	5.93	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	100.0	126	82	46.0	32	50.0	72.0	100.0	90.0	108.0	120.0	90.0	-
14	Chlorides(mg/l)	16994.7	16994.7	8247.44	2874.10	1849.00	1499.54	14245.6	13995.7	16369.9	11996.3	14745.4	15995.0	-
15	COD(mg/l)	-	-	-	-	6.0	4.0	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.80	1.12	1.70	2.24	2.24	1.68	1.12	1.12	2.24	1.68	0.56	-
17	Ammonia (mg/l)	BDL	0.06	BDL	BDL	BDL	0.08	0.17	0.16	0.06	0.07	BDL	BDL	-
18	Total Hardness(mg/l)	5400.0	6400.0	6600.0	1600.0	354.0	3400.0	4000.0	5800.0	8000.0	6600.0	6000.0	9800.0	-
19	Calcium(mg/l)	561.1	801.6	801.6	160.30	26.5	240.48	801.6	400.8	320.64	480.90	1362.7	1362.7	-

20	Magnesium(mg/l)	964.0	1069.2	1117.8	291.6	70.1	680.4	486.0	1166.4	1749.6	1200.0	631.8	1552.0	-
21	Sulphate(mg/l)	1715.2	492.7	343.2	432.4	115.4	1467.65	1280.6	1678.2	7298.8	1795.7	2060.8	2491.06	-
22	Sodium(mg/l)	3660.0	5650.0	5650.0	560.00	138.4	26.3	5550.0	4350.0	15100.0	17975.0	2950.0	2950.0	-
23	Total Dissolved Solids(mg/l)	30134.0	34886.0	13272.0	6074.0	2547.0	14086.0	24151.0	23987.0	24299.0	28213.0	20081.0	28408.0	-
24	Total Fixed Solids(mg/l)	19285.0	20932.0	7963.0	2430.0	849.0	8451.0	8127.0	14392.0	14579.0	12192.0	12048.0	17044.0	-
25	Total Suspended Solids(mg/l)	22.0	16.0	3.0	21.0	57.0	22.0	28.0	10.0	8.0	11.0	20.0	10.0	-
26	Phosphate(mg/l)	0.05	BDL	0.048	0.040	0.080	0.03	0.04	0.04	0.04	0.05	0.05	0.03	-
27	Boron(mg/l)	1.05	1.85	1.361	0.69	0.026	0.087	1,165	BDL	3,981	2.423	1.108	0.422	-
28	Potassium(mg/l)	760.0	2625.0	2625.0	236.0	48.9	14.4	3525.0	2500.0	4350.0	4100.0	1475.0	1475.5	-
29	Flouride(mg/l)	1.2	1.1	0.726	0.70	0.400	0.02	0.8	0.9	BDL	1.0	1.11	1.397	-
30	SAR	132.54	184.74	263.52	7.9	19.90	1.23	218.73	155.40	469.33	600.31	93.420	77.28	-
31	Percent Sodium (%)	-	-	-	63.8	66.00	4.23	87.6	81.38	90.38	92.5	68.93	60.29	-
RIVER ZUARI AT BORIM BRIDGE														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	28	27	28	28	28	29	29	29	29	29	-
2	Dissolved Oxygen(mg/l)	6.1	6.2	4.7	6.50	4.9	7.2	5.0	7.2	4.8	5.0	6.8	4.1	4 mg/l or more
3	pH	7.30	7.05	7.44	7.60	6.89	6.56	7.21	7.08	7.37	6.9	7.22	7.2	6.5 - 8.5
4	Conductivity(µs/cm)	30610.0	30900	2709	142.7	5680	260.8	18450	22800	24870	26330.0	34420.0	44150.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.1	0.5	0.3	0.15	0.2	0.4	0.13	1.9	0.2	0.16	1.4	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.027	BDL	0.012	0.007	BDL	BDL	BDL	0.006	0.06	0.044	0.04	0.054	-
8	Total Coliform(MPN/100ml)	780	680	1300	2300	1300	1700	1700	1400	1700	2200	1700	540	-
9	Fecal	450	400	450	780	490	460	700	780	1300	1300	1100	350	100 or less MPN/100 ml

	Coliform(MPN/100ml)													
10	Fecal Streptococci (MPN/100ml)	120	92	170	210	110	140	130	140	110	240	260	430	-
11	Turbidity(NTU)	8.28	10.7	3.39	23.20	6.2	13.51	2.74	7.78	5.74	4.47	4.64	4.1	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	90.0	126	54	22.0	30	30.0	48.0	62.0	54.0	72.0	70.0	80.0	-
14	Chlorides(mg/l)	7372.71	15495.2	2999.1	29.99	2299.3	60.48	8047.5	11246.5	8897.2	10871.6	17244.65	13245.9	-
15	COD(mg/l)	-	-	-	4.0	-	8.0	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	2.2	2.24	1.12	1.68	0.56	1.68	1.12	1.12	1.68	0.56	0.56	-
17	Ammonia (mg/l)	BDL	0.14	0.12	BDL	BDL	BDL	0.42	0.12	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	3200.0	4600.0	1200.0	28.0	496.0	38.0	1960.0	3000.0	4400.0	3800.0	8800.0	3920.0	-
19	Calcium(mg/l)	400.80	240.50	400.8	4.8	36.9	11.22	112.2	480.9	801.6	481.0	1042.08	256.5	-
20	Magnesium(mg/l)	534.6	972.0	48.6	3.89	98.2	2.43	408.2	437.4	583.2	631.8	1506.60	797.0	-
21	Sulphate(mg/l)	1403.30	1754.70	8725.1	13.20	188.6	7.66	769.9	848.1	950.5	1902.1	998.40	1827.8	-
22	Sodium(mg/l)	3000.0	3525.0	3520.0	19.3	3127.0	15.2	800.0	2785.0	1067.0	807.8	4075.0	6400.0	-
23	Total Dissolved Solids(mg/l)	17141.0	20575.0	1626.0	79.0	3666.0	143.0	12095.0	13224.0	15916.0	17148.0	19619.0	28256.0	-
24	Total Fixed Solids(mg/l)	10284.0	6871.0	650.0	49.0	1512.0	85.0	3925.0	9521.0	6366.0	5710.0	11771.0	16954.0	-
25	Total Suspended Solids(mg/l)	16.0	5.0	6.0	19.0	13.0	17.0	13.0	15.0	8.0	17.0	6.0	8.0	-
26	Phosphate(mg/l)	BDL	BDL	BDL	0.03	0.040	BDL	BDL	0.06	0.06	0.02	0.04	BDL	-
27	Boron(mg/l)	1.827	0.4	0.4	BDL	3.4	0.02	0.942	1.67	0.915	1.66065	1.75	1.5	-
28	Potassium(mg/l)	875.0	852.0	845.0	7.6	1857.0	4.7	420.0	1412.0	538.6	155.6	3325.0	5100.0	-
29	Flouride(mg/l)	0.515	BDL	BDL	BDL	0.60	0.4	0.8	0.5	0.9	0.9	BDL	1.2	-
30	SAR	138.72	143.16	234.82	9.25	380.60	5.82	49.59	129.97	40.55	34.25	114.15	278.85	-
31	Percent Sodium (%)	-	-	-	75.56	97.40	59.31	70.1	85.05	53.70	46.4	74.38	91.61	-

TIRACOL BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	32	30	29	29	29	30	31	28	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.9	6.8	5.8	7.3	7.7	7.2	5.3	6.6	4.9	5.4	7.0	5.5	4 mg/l or more
3	pH	8.12	8.01	8.02	7.36	8.51	7.80	8.07	7.86	7.99	8.18	8.15	8.03	6.5 - 8.5
4	Conductivity(µs/cm)	52280.0	59650.0	60080.0	28930.0	18310.0	47620.0	52080.0	51800.0	50290.0	53070.0	37360.0	54750.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	1.2	0.1	0.1	BDL	BDL	BDL	0.1	BDL	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.04	0.021	0.08	BDL	BDL	BDL	0.023	0.008	0.01	0.006	-
8	Total Coliform(MPN/100ml)	94	79	140	350	240	280	33	110	130	79	130	<1.8	-
9	Fecal Coliform(MPN/100ml)	49	49	79	130	79	94	23	79	79	23	49	<1.8	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	23	33	22	94	49	49	11	49	33	21	33	<1.8	-
11	Turbidity(NTU)	9.0	5.62	32.10	18.24	15.20	10.25	3.47	3.88	4.45	4.78	5.96	3.28	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	4.0	BDL	BDL	12.0	BDL	10.0	BDL	2.0	BDL	4.0	-
13	Total Alkalinity(mg/l)	122.0	150.0	124.0	64.0	54.0	76.0	112.0	80.0	84.0	118.0	226.0	88.0	-
14	Chlorides(mg/l)	16244.96	17244.70	17494.60	9247.13	6697.92	16244.0	16769.8	16994.70	16994.7	18994.11	17744.5	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	0.56	1.7	2.80	0.56	0.56	1.68	1.68	2.24	3.36	1.12	1.68	-
17	Ammonia (mg/l)	BDL	BDL	BDL	0.19	BDL	BDL	0.11	BDL	BDL	0.07	0.01	0.06	-
18	Total Hardness(mg/l)	8000.0	7600.0	12000.0	3000.0	2000.0	7600.0	7000.0	7500.0	8000.0	6400.0	8200.0	7600.0	-
19	Calcium(mg/l)	481.0	881.80	881.80	240.48	152.3	1523.04	721.4	1603.2	4000.0	480.96	480.96	561.1	-

20	Magnesium(mg/l)	1652.4	1312.2	2381.4	583.2	393.7	923.4	1263.6	850.5	972.0	1263.6	1701.0	1506.6	-
21	Sulphate(mg/l)	2281.7	2250.60	1685.00	998.97	787.16	9.95	2450.2	2349.5	2387.7	3946.21	1177.6	1989.9	-
22	Sodium(mg/l)	4300.0	8150.0	8138.0	4231.0	3480.0	8400.0	2612.0	8823.0	9260.0	3975.0	8650.0	1402.0	-
23	Total Dissolved Solids(mg/l)	29276.0	38772.0	36048.0	17382.0	11694.0	26667.0	30263.0	29008.0	26311.0	31842.0	23910.0	32850.0	-
24	Total Fixed Solids(mg/l)	17565.0	26752.0	14419.0	10433.0	7017.0	16000.0	10289.0	17404.0	8946.0	19769.0	14346.0	13140.0	-
25	Total Suspended Solids(mg/l)	21	18.0	25.0	15.0	16.0	15.0	8.0	11.0	9.0	111.0	7.0	8.0	-
26	Phosphate(mg/l)	0.028	0.020	0.040	0.04	0.03	0.024	0.036	BDL	0.05	0.07	0.03	BDL	-
27	Boron(mg/l)	1.438	0.97	0.8	1.89	1.23	2.83	226.64	3.688	2.734	3.580	1.89	0.2	-
28	Potassium(mg/l)	1250.00	3600.00	3600.00	1912.0	2350.0	3300.0	988.0	3281.0	640.0	2275.0	5000.0	291.6	-
29	Flouride(mg/l)	1.118	1.230	1.0	1.2	1.0	1.335	0.5	1.321	0.8	1.59	BDL	0.6	-
30	SAR	131.66	246.07	201.47	208.49	210.62	240.19	82.91	251.90	258.06	134.61	261.88	43.60	-
31	Percent Sodium (%)	-	-	-	88.18	91.44	82.71	64.5	83.15	79.4	78.17	86.22	45.0	-

MIRAMAR BEACH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	29	30	27	28	30	30	30	29	30	-
2	Dissolved Oxygen(mg/l)	6.2	6.2	6.4	6.0	6.1	7.2	6.4	5.1	6.2	6.2	6.6	6.0	4 mg/l or more
3	pH	7.93	8.07	8.24	8.55	8.86	8.15	7.80	8.10	7.99	8.04	8.04	8.0	6.5 - 8.5
4	Conductivity(µs/cm)	60670.0	68280.0	49700.0	16700.0	26300.0	19970.0	42210.0	44930.0	49290.0	34280.0	57050.0	49050.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.1	0.16	0.3	0.1	0.433	BDL	BDL	0.5	0.3	0.1	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.046	0.042	BDL	0.006	BDL	0.005	0.017	0.007	BDL	BDL	-
8	Total Coliform(MPN/100ml)	110	79	94	170	130	540	220	170	23	70	46	170	-
9	Fecal Coliform(MPN/100ml)	79	49	70	94	79	130	110	140	13	49	33	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	33	23	22	46	33	110	79	79	11	11	22	150	-
11	Turbidity(NTU)	7.7	8.53	29.00	58.3	35.2	9.65	12.39	6.54	15.81	10.34	7.08	3.6	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	10.0	16.0	BDL	BDL	BDL	8.0	14.0	-
13	Total Alkalinity(mg/l)	114.0	138.0	92.0	54.0	84.0	68.0	62.0	108.0	100.0	126.0	90.0	86.0	-
14	Chlorides(mg/l)	17320	17994.42	17494.60	7997.5	9871.9	13745.7	16994.7	17744.50	17369.6	17244.65	17744.50	17244.7	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.8	0.56	0.56	1.68	0.56	0.56	0.56	1.68	1.68	1.68	3.4	0.56	-
17	Ammonia (mg/l)	0.1	0.8	BDL	0.05	0.06	0.060	0.10	0.09	BDL	0.09	0.07	BDL	-
18	Total Hardness(mg/l)	9200.0	7800.0	7600.0	4500.0	3800.0	5000.0	4800.0	8000.0	7000.0	8000.0	7800.0	6200.0	-
19	Calcium(mg/l)	1202.4	1122.24	1042.1	160.3	400.8	1042.1	400.8	480.96	721.4	1042.1	561.1	641.3	-
20	Magnesium(mg/l)	1506.60	1215.0	1215.0	996.3	680.4	583.2	923.4	1652.4	1263.6	1312.2	1555.2	1117.8	-

21	Sulphate(mg/l)	826.4	3441.72	3077.30	366.80	890.4	1680.72	1510.1	2195.64	2913.9	2215.7	3489.3	2196.3	-
22	Sodium(mg/l)	2950.0	6075.0	5827.0	69.2	6550.0	4820.0	6700.0	9325.0	2745.0	9298.0	3790.0	8900.0	-
23	Total Dissolved Solids(mg/l)	38828.0	35963.0	28826.0	9789.0	16832.0	11183.0	27014.0	27856.0	31545.0	22426.0	37350.0	31392.0	-
24	Total Fixed Solids(mg/l)	23296.0	21581.0	19601.0	3328.0	10099.0	6709.0	16208.0	16713.0	12618.0	9545.0	12449.0	18835.0	-
25	Total Suspended Solids(mg/l)	3	13.0	22.0	109.0	40.0	20.0	13.0	7.0	18.0	12.0	21.0	7.0	-
26	Phosphate(mg/l)	0.045	0.09	0.04	0.10	0.03	BDL	0.02	0.02	0.12	0.05	BDL	0.02	-
27	Boron(mg/l)	1.904	1.4	1.2	1.2	2.53	0.13	1.951	4.24	2.051	2.8914	0.4	1.9	-
28	Potassium(mg/l)	950	2625.0	2706.0	12.4	4500.0	2410.0	4550.0	4200.0	923.2	4215.0	290.0	7550.0	-
29	Flouride(mg/l)	1.372	1.2	1.1	0.8	1.0	0.972	1.0	BDL	0.5	0.7	1.1	1.3	-
30	SAR	80.16	177.71	173.45	2.9	281.7	169.08	260.38	287.34	87.13	271.00	116.50	300.10	-
31	Percent Sodium (%)	-	-	-	6.6	91.1	81.65	89.47	86.52	64.9	85.0	65.9	90.34	-

CALANGUTE BEACH

Sr. No	Parameters	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Limit for SW II river as per CPCB classification based on designated best use of rivers
1	Temperature°C	30	30	30	30	29	30	30	30	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	6.2	5.5	7.1	6.6	7.0	6.6	6.2	6.7	6.1	5.1	6.6	6.1	4 mg/l or more
3	pH	8.12	8.10	8.32	7.18	8.71	8.12	8.01	7.85	8.11	7.97	8.14	8.60	6.5 - 8.5
4	Conductivity(µs/cm)	53600.0	58230.0	56730.0	37180.0	30930.0	41300.0	52190.0	51350.0	50190.0	42440.0	33690.0	54420.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.2	0.2	0.1	0.7	0.2	0.18	0.2	0.3	0.2	BDL	BDL	0.4	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.010	0.055	0.006	0.01	BDL	BDL	BDL	BDL	0.005	0.012	-
8	Total Coliform(MPN/100ml)	70	110	350	240	110	240	130	210	79	140	350	<1.8	-
9	Fecal Coliform(MPN/100ml)	49	79	170	130	70	130	79	130	33	94	240	<1.8	100 or less MPN/100 ml

10	Fecal Streptococci (MPN/100ml)	33	46	110	79	33	94	49	79	21	33	130	<1.8	-
11	Turbidity(NTU)	4.7	4.92	13.20	22.30	9.40	10.47	6.18	2.4	4.99	3.50	6.26	4.18	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	8.0	BDL	10.0	4.0	10.0	14.0	14.0	14.0	16.0	BDL	BDL	4.0	-
13	Total Alkalinity(mg/l)	102.00	154.0	98.0	80.0	60.0	90.0	82.0	82.0	116.0	130.0	108.0	90.0	-
14	Chlorides(mg/l)	17369.6	15870.1	17244.65	15995.0	11996.3	16369.92	17494.6	16994.73	17494.6	17119.7	16244.96	17744.5	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.20	1.1	0.56	3.4	3.36	2.24	0.56	0.56	1.68	2.24	1.68	1.70	-
17	Ammonia (mg/l)	BDL	0.02	0.02	BDL	0.09	0.07	BDL	0.05	0.10	0.10	BDL	BDL	-
18	Total Hardness(mg/l)	7200.0	6600.0	7800.0	4600.0	3800.0	7400.0	6400.0	6600.0	10000.0	3800.0	9000.0	7000.0	-
19	Calcium(mg/l)	561.1	561.1	801.6	400.8	481.0	561.12	961.9	1042.08	801.6	801.6	1843.7	481.0	-
20	Magnesium(mg/l)	1409.4	1263.6	1409.4	874.8	631.8	1458.0	972.0	972.0	1944.0	437.4	4383.70	1409.0	-
21	Sulphate(mg/l)	2728.7	1392.9	1827.8	2035.2	935.3	1624.0	1924.7	1929.93	1485.2	5500.6	2393.60	2800.6	-
22	Sodium(mg/l)	4450.0	4439.0	4442.0	5210.0	6300.0	35.3	5575.0	5580.0	12475.0	8225.0	3175.0	1775.0	-
23	Total Dissolved Solids(mg/l)	32956.0	37267.0	37442.0	24486.0	20613.0	27258.0	30270.0	28815.0	32122.0	25087.0	18866.0	35073.0	-
24	Total Fixed Solids(mg/l)	19624.0	22360.0	22465.0	8167.0	6878.0	16354.0	20280.0	17296.0	19273.0	8529.0	11319.0	11690.0	-
25	Total Suspended Solids(mg/l)	10	8.0	15.0	49.0	18.0	11.0	19.0	7.0	7.0	7.0	13.0	12.0	-
26	Phosphate(mg/l)	BDL	0.07	0.05	0.04	0.05	BDL	0.03	0.04	0.03	0.03	0.05	BDL	-
27	Boron(mg/l)	0.4	0.5	1.16	2.65	1.96	0.206	3.146	0.061	5.261	3.0992	0.343	0.7	-
28	Potassium(mg/l)	650	673.0	677.0	1950.0	360.0	18.7	2374.0	2474.0	575.0	1250.0	15878.5	363.8	-
29	Flouride(mg/l)	1.0	1.0	1.7	1.2	1.0	0.03	BDL	1.7	1.5	0.9	1.66	1.1	-
30	SAR	141.77	146.960	133.6	184.1	267.1	1.11	179.28	175.84	336.70	330.5	83.19	57.60	-
31	Percent Sodium (%)	-	-	-	84.9	85.7	2.60	80.43	80.0	82.62	88.4	62.05	53.1	-

MORJIM BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	32	29	30	29	28	29	31	29	30	30	30	-
2	Dissolved Oxygen(mg/l)	6.1	6.6	6.5	7.6	7.2	7.9	6.4	6.9	6.0	6.5	7.7	5.9	4 mg/l or more
3	pH	8.06	8.04	7.68	7.03	8.83	7.85	8.10	7.67	8.01	8.10	8.30	7.95	6.5 - 8.5
4	Conductivity(µs/cm)	42870.0	59640.0	60330.0	32680.0	22180.0	45440.0	51140.0	59120.0	50760.0	52330.0	39860.0	53490.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.20	BDL	0.5	0.1	0.12	BDL	BDL	BDL	0.1	BDL	0.17	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.014	0.015	0.007	BDL	BDL	0.013	0.016	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	130	79	70	220	170	350	33	79	79	350	130	140	-
9	Fecal Coliform(MPN/100ml)	79	49	49	79	70	110	13	49	33	130	33	79	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	49	23	13	49	46	79	9.2	23	13	94	23	94	-
11	Turbidity(NTU)	4.5	2.50	22.00	10.53	18.56	13.60	1.12	2.04	6.27	1.43	3.80	3.26	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	8.0	BDL	2.0	10.0	18.0	10.0	BDL	4.0	BDL	2.0	-
13	Total Alkalinity(mg/l)	94.0	140.0	114.0	68.0	52.0	74.0	104.0	84.0	96.0	120.0	234.0	88.0	-
14	Chlorides(mg/l)	14870.3	16994.70	17994.42	14495.51	6997.8	15995.0	16494.9	17494.60	16869.8	19244.03	17494.57	17744.5	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	1.12	2.3	1.68	1.68	1.68	1.68	1.12	1.68	3.92	0.56	1.68	-
17	Ammonia (mg/l)	0.1	BDL	0.06	BDL	0.05	BDL	0.06	0.065	BDL	BDL	0.01	0.07	-
18	Total Hardness(mg/l)	5000.0	7800.0	7400.0	4200.0	5600.0	7400.0	6500.0	7500.0	8000.0	6600.0	9200.0	6400.0	-
19	Calcium(mg/l)	481.0	641.28	400.80	320.64	320.6	1523.0	801.6	1603.2	3800.0	400.8	400.8	561.1	-
20	Magnesium(mg/l)	923.4	1506.60	1555.20	826.2	1166.4	874.8	1093.5	850.5	1020.0	1360.8	1992.6	1215.0	-
21	Sulphate(mg/l)	1585.24	1647.60	2113.40	1699.74	426.5	8.52	2243.0	2335.5	2217.9	3073.21	1241.6	1754.1	-

22	Sodium(mg/l)	0.1	7900.0	7911.0	5030.0	5650.0	1622.0	2781.5	9675.0	9370.0	3275.0	8800.0	1302.0	-
23	Total Dissolved Solids(mg/l)	26151.0	36977.0	36198.0	18412.0	13308.0	25446.0	30494.0	33107.0	27547.0	32445.0	25510.0	32094.0	-
24	Total Fixed Solids(mg/l)	10460.0	22186.0	14479.0	11051.0	5323.0	15267.0	10367.0	19864.0	9366.0	20560.0	15306.0	12838.0	-
25	Total Suspended Solids(mg/l)	6	28.0	28.0	12.0	12.0	18.0	4.0	10.0	12.0	96.0	5.0	8.0	-
26	Phosphate(mg/l)	BDL	0.03	BDL	0.03	0.03	0.023	0.04	BDL	0.03	0.08	0.05	BDL	-
27	Boron(mg/l)	BDL	1.34	0.4	2.41	1.48	2.85	0.054	2.275	3.059	3.50922	1.85	BDL	-
28	Potassium(mg/l)	200.00	7525.0	7520.0	2137.0	1925.0	442.8	780.0	3575.0	640.0	2325.0	6100.0	294.1	-
29	Flouride(mg/l)	1.4	1.420	1.2	1.0	0.97	1.238	0.5	1.085	0.8	BDL	BDL	0.6	-
30	SAR	116.98	241.10	252.97	210.05	207.2	46.85	90.34	276.22	262.74	110.38	254.38	43.69	-
31	Percent Sodium (%)	-	-	-	86.21	83.6	46.28	65.3	84.38	79.7	76.07	86.16	47.3	-

VAGATOR BEACH

Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	30	30	29	30	30	32	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	6.8	6.1	6.7	7.8	6.2	6.7	6.7	5.7	6.5	6.0	4.9	5.8	4 mg/l or more
3	pH	8.3	8.04	8.26	7.64	8.67	8.01	8.07	7.9	8.14	8.17	8.06	8.12	6.5 - 8.5
4	Conductivity(µs/cm)	52680.0	59410.0	56860.0	33160.0	33230.0	42480.0	50940.0	51860.0	50470.0	40960.0	45440.0	54260.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.200	0.1	BDL	0.4	0.2	0.64	BDL	BDL	BDL	BDL	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.034	0.012	0.011	0.02	BDL	BDL	BDL	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	240	79	170	210	130	240	240	240	79	79	110	49	-
9	Fecal Coliform(MPN/100ml)	130	49	110	94	79	130	130	130	49	49	79	22	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	79	21	40	49	49	79	79	70	32	26	70	27	-
11	Turbidity(NTU)	6.1	6.95	31.7	27.6	33.7	29.1	5.24	2.36	2.79	4.61	5.80	4.65	30 NTU

12	Phenolphthalein Alkalinity(mg/l)	8.0	BDL	BDL	10.0	BDL	2.0	12.0	6.0	12.0	BDL	BDL	8.0	-
13	Total Alkalinity(mg/l)	132.00	136.0	108.0	66.0	82.0	16.0	88.0	84.0	86.0	128.0	108.0	86.0	-
14	Chlorides(mg/l)	17119.7	17869.50	17494.58	16744.80	13245.00	16994.73	17119.7	16244.96	17994.4	16869.8	17494.6	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	1.1	0.56	0.6	0.56	0.56	0.56	0.56	0.56	2.24	3.36	1.70	-
17	Ammonia (mg/l)	BDL	BDL	0.04	BDL	BDL	0.12	BDL	BDL	BDL	0.08	BDL	BDL	-
18	Total Hardness(mg/l)	6600.0	6600.0	6600.0	4200.0	5000.0	7400.0	5000.0	4600.0	7800.0	6800.0	9800.0	7400.0	-
19	Calcium(mg/l)	481.0	881.80	641.28	320.6	561.1	1523.04	881.8	881.76	641.3	801.6	2004.0	561.1	-
20	Magnesium(mg/l)	1312.2	1069.2	1215.0	826.2	874.8	874.8	680.4	583.20	1506.6	1166.4	4782.20	1458.0	-
21	Sulphate(mg/l)	2338.9	1507.30	1706.50	1177.9	1529.4	1341.0	1813.6	1762.11	1400.4	6011.6	1632.0	3564.1	-
22	Sodium(mg/l)	4175.0	4204.0	4207.0	6389.0	3320.0	35.9	5275.0	5450.0	10825.0	8725.0	2925.0	1830.0	-
23	Total Dissolved Solids(mg/l)	32903.0	38022.0	37528.0	21222.0	19938.0	26337.0	31582.0	26984.0	32301.0	23683.0	22988.0	36093.0	-
24	Total Fixed Solids(mg/l)	13672.0	22813.0	22517.0	8489.0	15152.0	15802.0	20212.0	16192.0	19381.0	8052.0	13792.0	12030.0	-
25	Total Suspended Solids(mg/l)	11	9.0	35.0	32.0	25.0	28.0	17.0	15.0	4.0	10.0	12.0	13.0	-
26	Phosphate(mg/l)	BDL	0.1	0.04	0.05	0.04	0.04	0.04	0.04	0.02	0.03	0.03	BDL	-
27	Boron(mg/l)	0.5	0.5	1.18	2.66	2.19	0.187	3.012	11.388	5.028	2.9699	0.384	0.7	-
28	Potassium(mg/l)	600.00	608.0	609.0	2438.0	1720.0	19.3	2237.0	2240.0	475.0	1250.0	2350.0	375.9	-
29	Flouride(mg/l)	0.8	1.0	0.4	1.0	1.10	0.02	BDL	BDL	1.5	0.9	1.13	1.1	-
30	SAR	139.43	134.60	138.09	23.40	123.91	1.04	188.74	201.37	330.32	278.1	73.47	57.60	-
31	Percent Sodium (%)	-	-	-	88.50	77.83	2.25	82.78	84.00	84.03	83.5	62.46	52.2	-

ARAMBOL BEACH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	32	30	30	29	28	29	31	29	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.9	7.6	6.1	7.6	7.3	7.2	6.4	5.1	5.8	5.8	7.2	6.1	4 mg/l or more
3	pH	8.07	8.05	8.24	7.34	8.76	7.81	8.03	7.78	8.03	8.15	8.41	8.04	6.5 - 8.5
4	Conductivity(µs/cm)	53080	59820	59280	33670.0	20280.0	47360.0	52200.0	52080.0	49870.0	53170.0	40160.0	53870.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.3	0.1	0.1	BDL	BDL	BDL	0.1	BDL	0.11	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.009	0.02	0.07	BDL	BDL	BDL	0.0184	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	49	70	70	540	280	220	79	94	350	130	240	150	-
9	Fecal Coliform(MPN/100ml)	33	46	33	130	110	70	49	70	130	79	79	70	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	17	22	7.8	94	79	46	21	33	110	49	33	84	-
11	Turbidity(NTU)	9.67	1.92	19.8	24.2	19.9	15.66	2.56	3.97	6.27	1.69	4.31	4.16	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	6	BDL	6.0	4.0	BDL	12.0	BDL	6.0	BDL	2.0	-
13	Total Alkalinity(mg/l)	116	152	116	72.0	44.0	86.0	106.0	78.0	94.0	118.0	234.0	84.0	-
14	Chlorides(mg/l)	16869.7	17494.6	18244.34	16994.73	7647.63	16744.81	16994.7	17744.5	16869.8	19493.95	17994.42	17744.5	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	1.12	1.7	1.12	1.12	1.12	1.12	1.12	1.68	3.36	1.68	1.68	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	0.10	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	6000	7800	9000	6400.0	2260.0	7200.0	7500.0	8000.0	7800.0	6600.0	9000.0	7200.0	-
19	Calcium(mg/l)	481	961.9	641.3	400.8	176.35	1442.88	801.6	1603.2	3800.0	561.12	641.28	400.8	-
20	Magnesium(mg/l)	1166.4	1312.2	1798.2	1312.2	442.3	874.8	1336.5	972.0	972.0	1263.6	1798.20	1506.6	-

21	Sulphate(mg/l)	2219.3	2207	1613.6	1401.54	853.01	10.01	2428.1	1999.9	2868.6	3506.16	1715.20	1415.0	-
22	Sodium(mg/l)	BDL	7150	7152	5162.0	3130.0	10675.0	2170.0	10221.0	9540.0	3975.0	8400.0	1415.0	-
23	Total Dissolved Solids(mg/l)	31848	37088.0	35568.0	19211.0	13041.0	26521.0	30286.0	29164.0	26600.0	31902.0	25702.0	32322.0	-
24	Total Fixed Solids(mg/l)	12739	23736.0	14227.0	11532.0	7822.0	15912.0	10297.0	17498.0	9044.0	22613.0	15421.0	12929.0	-
25	Total Suspended Solids(mg/l)	12	17	24	27.0	21.0	20.0	7.0	10.0	13.0	111.0	5.0	12.0	-
26	Phosphate(mg/l)	0.02	0.02	BDL	0.03	0.02	0.02	0.0243	BDL	0.04	0.09	0.02	BDL	-
27	Boron(mg/l)	BDL	1.05	0.5	2.39	1.36	3.024	156.342	3.820	2.880	3.454	1.95	0.3	-
28	Potassium(mg/l)	325	3275	3270	2272.0	1730.0	3475.0	750.0	4432.0	630.0	2275.0	3450.0	297.5	-
29	Flouride(mg/l)	0.9	1.24	1	1.1	1.0	1.184	0.9	1.321	BDL	1.56	BDL	0.2	-
30	SAR	136.76	212.04	204.783	176.38	177.97	313.64	66.37	284.84	270.10	131.62	240.52	45.82	-
31	Percent Sodium (%)	-	-	-	81.27	88.71	85.93	57.7	85.05	80.3	77.40	82.93	47.3	-
BAGA BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	30	30	29	30	30	32	30	30	30	31	-
2	Dissolved Oxygen(mg/l)	5.5	6.4	5.9	6.9	6.0	6.6	6.4	6.0	5.6	4.9	5.8	5.2	4 mg/l or more
3	pH	8.11	7.89	8.31	7.71	8.68	8.11	8.03	7.91	7.95	7.98	7.79	8.29	6.5 - 8.5
4	Conductivity(µs/cm)	51580	60380	45260	37420.0	30530.0	39740.0	52160.0	51590.0	50300.0	42910.0	39330.0	54120.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	0.1	0.1	0.8	0.1	0.16	0.1	0.11	0.8	0.6	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.013	0.058	0.007	0.01	BDL	0.005	0.007	BDL	0.008	0.009	-
8	Total Coliform(MPN/100ml)	110	170	240	220	140	540	350	350	240	220	920	220	-
9	Fecal Coliform(MPN/100ml)	94	94	130	110	94	240	130	170	79	94	350	79	100 or less MPN/100 ml

10	Fecal Streptococci (MPN/100ml)	70	49	110	70	46	130	110	94	40	27	110	170	-
11	Turbidity(NTU)	6.41	5.19	14.93	24.90	10.98	12.15	6.35	2.41	4.71	2.90	6.16	3.64	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	10.0	BDL	BDL	4.0	10.0	14.0	14.0	14.0	14.0	BDL	BDL	6.0	-
13	Total Alkalinity(mg/l)	100.0	132.0	88.0	74.0	68.0	66.0	86.0	86.0	46.0	124.0	128.0	90.0	-
14	Chlorides(mg/l)	16869.8	18369.30	16994.73	11371.50	11121.60	14745.43	17494.6	17244.65	17744.5	16994.7	15995.04	17369.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.7	1.7	1.12	3.9	0.6	1.12	0.56	1.12	0.56	2.80	2.24	1.10	-
17	Ammonia (mg/l)	BDL	0.02	0.09	BDL	BDL	0.12	BDL	BDL	BDL	0.12	BDL	BDL	-
18	Total Hardness(mg/l)	6800	6400	7600	2800.0	4600.0	7600.0	6200.0	5600.0	7400.0	6400.0	8600.0	7000.0	-
19	Calcium(mg/l)	641.3	641.3	721.4	320.6	400.8	561.12	881.8	1122.24	721.4	881.8	1763.5	481.0	-
20	Magnesium(mg/l)	1263.6	1166.4	1409.4	486.0	874.8	1506.6	972.0	680.40	1360.8	1020.6	4184.50	1409.0	-
21	Sulphate(mg/l)	2276.5	1190.2	1670.8	1185.0	1281.0	961.05	1954.3	1867.0	2121.8	5074.7	2041.60	3693.8	-
22	Sodium(mg/l)	4400.0	4390.0	4388.0	4650.0	4520.0	36.1	5175.0	5278.0	12675.0	9425.0	3250.0	1886.0	-
23	Total Dissolved Solids(mg/l)	31696.0	38643.0	28061.0	24144.0	18012.0	25433.0	31817.0	27384.0	32192.0	24596.0	22024.0	35538.0	-
24	Total Fixed Solids(mg/l)	13076.0	23186.0	16837.0	8049.0	13689.0	15259.0	20681.0	16431.0	19315.0	8362.0	13214.0	11844.0	-
25	Total Suspended Solids(mg/l)	12.0	10.0	18.0	51.0	21.0	12.0	20.0	9.0	6.0	6.0	14.0	23.0	-
26	Phosphate(mg/l)	BDL	0.04	BDL	0.03	0.03	BDL	0.03	0.04	0.02	0.04	0.04	BDL	-
27	Boron(mg/l)	0.8	0.4	1.1	2.89	2.08	0.204	3.122	1.836	5.271	3.0598	0.393	0.7	-
28	Potassium(mg/l)	625.0	615	613	2105.0	2300.0	18.0	2187.0	2192.0	600.0	1250.0	1725.0	374.7	-
29	Flouride(mg/l)	0.7	1.0	1.6	1.4	1.3	0.02	BDL	1.6	1.4	0.9	1.15	1.1	-
30	SAR	142.57	146.0	134.4	197.9	178.98	1.12	169.98	175.80	392.82	305.6	92.47	61.3	-
31	Percent Sodium (%)	-	-	-	89.3	84.2	2.55	79.88	80.56	86.44	84.9	65.02	54.5	-

BAMBOLIM BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as CB classification based on nated best use of rivers**
1	Temperature°C	30	31	29	27	28	27	27	29	28	29	29	30	-
2	Dissolved Oxygen(mg/l)	6.1	5.8	6.3	7.0	7.4	7.1	5.5	4.2	6.9	5.2	6.3	7.8	4 mg/l or more
3	pH	7.99	7.99	8.12	8.09	7.84	7.9	7.5	7.67	7.79	8.04	7.52	8.04	6.5 - 8.5
4	Conductivity(µs/cm)	63630	58290.00	47660.00	16420.0	21390.0	29540.0	44010.0	47460.0	47070.0	44090.0	51500.0	54910.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2	BDL	0.44	0.1	0.60	0.30	0.5	0.2	BDL	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.007	0.018	BDL	0.023	0.006	0.012	0.025	0.010	BDL	0.011	-
8	Total Coliform(MPN/100 ml)	79	70	240	280	220	220	240	280	170	170	130	17	-
9	Fecal Coliform(MPN/100 ml)	49	46	130	140	130	110	130	170	130	110	79	12	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	23	21	27	49	94	32	79	70	49	79	70	14	-
11	Turbidity(NTU)	11.84	15.76	44.7	14.29	13.02	47.60	19.2	11.2	10.70	8.45	1.2	7.28	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	8.0	18.0	BDL	6.0	8.0	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	154	146	200	66.0	60.0	76.0	90.0	86.0	82.0	122.0	88.0	100.0	-
14	Chlorides(mg/l)	16244.96	17494.58	16994.70	6298.1	7397.71	4948.5	17119.69	17744.5	17744.50	17994.4	17619.5	17244.7	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	1.1	4.48	0.56	1.12	2.80	1.7	0.56	1.12	1.68	3.92	1.12	-
17	Ammonia (mg/l)	BDL	BDL	0.7	0.05	0.1	BDL	0.12	0.08	BDL	BDL	0.13	0.05	-
18	Total Hardness(mg/l)	8000	7400.0	3000.0	1800.0	2400.0	4600.0	7500.0	7000.0	6200.0	7800.0	5500.0	6400.0	-
19	Calcium(mg/l)	400.8	400.80	801.60	264.5	480.96	481.00	1603.2	721.4	1042.08	400.8	481.0	561.1	-
20	Magnesium(mg/l)	1701.0	1555.2	243.0	277.0	291.6	1200.0	850.5	1263.6	874.80	1652.4	1044.9	1215.0	-

21	Sulphate(mg/l)	4833.68	2855.70	88.60	623.20	1020.6	1117.5	2280.0	776.2	2333.93	1660.80	3343.4	1798.3	-
22	Sodium(mg/l)	6050.0	6071.0	6075.0	972.0	6275.0	5125.0	6870.0	4160.0	5052.0	2300.0	4110.0	4050.0	-
23	Total Dissolved Solids(mg/l)	36269.0	34975.0	31719.0	9688.0	13689.0	19651.0	26408.0	30374.0	25487.0	28217.0	34310.0	34044.0	-
24	Total Fixed Solids(mg/l)	21761.0	13990.0	10580.0	7072.0	8213.0	6556.0	10563.0	18224.0	15287.0	16930.0	11432.0	20426.0	-
25	Total Suspended Solids(mg/l)	5	10.0	60.0	18.0	10.0	59.0	38.0	15.0	19.0	10.0	12.0	11.0	-
26	Phosphate(mg/l)	0.113	0.03	0.02	0.10	0.04	0.06	0.11	0.03	0.04	0.03	0.06	0.09	-
27	Boron(mg/l)	1.88	0.3	BDL	0.8	1.56	1.771	0.280	3.40	1.942	2.672	0.1	1.90	-
28	Potassium(mg/l)	1850	1859.0	1840.0	394.0	1375.0	3225.0	3824.0	2850.0	2175.0	1250.0	390.0	2600.0	-
29	Flouride(mg/l)	1.4	0.9	0.9	0.90	0.306	1.1	1.1	0.9	1.3	BDL	1.1	BDL	-
30	SAR	186.63	194.13	265.82	59.07	319.27	200.47	196.1	132.1	163.19	22.4	148.8	135.90	-
31	Percent Sodium (%)	-	-	-	71.61	90.83	86.5	81.3	77.9	79.04	33.92	74.7	78.92	-

MOBOR BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	29	29	29	28	30	29	30	30	31	-
2	Dissolved Oxygen(mg/l)	6.3	6.4	6.6	6.6	6.8	6.7	6.6	6.4	6.6	7.1	7.0	7.8	4 mg/l or more
3	pH	8.03	7.96	7.68	7.51	8.88	8.03	7.68	7.94	8.08	8.01	7.35	6.80	6.5 - 8.5
4	Conductivity(µs/cm)	55220.0	59540	62700.0	42810.0	25190.0	44190.0	62700	50680.0	49850.0	43450.0	39090.0	53670.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.36	BDL	0.1	0.1	0.1	0.39	0.18	BDL	0.11	0.1	0.11	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005	0.016	BDL	0.021	0.025	0.007	BDL	0.006	0.03	BDL	BDL	BDL	-
8	Total Coliform(MPN/100ml)	70	140	79	170	130	110	110	110	540	130	110	<1.8	-
9	Fecal Coliform(MPN/100ml)	46	79	33	130	79	49	79	70	170	79	49	<1.8	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	33	49	22	79	49	14	31	46	79	49	33	110	-
11	Turbidity(NTU)	23.9	34.0	1.85	12.7	29.1	11.89	1.85	3.64	7.25	4.84	6.64	3.22	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	16.0	BDL	12.0	BDL	4.0	14.0	12.0	10.0	4.0	14.0	12.0	BDL	-
13	Total Alkalinity(mg/l)	120.0	138	118.0	88.0	62.0	114.0	118.0	100.0	86.0	114.0	114.0	116.0	-
14	Chlorides(mg/l)	17994.42	18119.4	17994.4	16869.80	9497.05	16869.8	17369.60	17619.5	17994.42	17744.5	17619.54	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	4.5	2.802	1.12	1.68	1.68	2.80	1.68	0.56	0.56	2.2	1.68	-
17	Ammonia (mg/l)	0.07	0.15	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.05	0.09	BDL	-
18	Total Hardness(mg/l)	6400	7500.0	8400.0	6600.0	4000.0	5000.0	8200.0	6400.0	7800.0	10000.0	9500.0	6800.0	-
19	Calcium(mg/l)	961.92	801.6	561.1	481.0	400.8	320.6	641.3	1042.1	561.12	641.30	1402.0	961.9	-
20	Magnesium(mg/l)	972.0	1336.5	1701.0	1312.2	729.0	1020.6	1603.8	923.4	1555.2	2041.2	1458.0	1069.2	-

21	Sulphate(mg/l)	2525.99	1340.9	328.4	1789.00	419.0	1437.9	421.9	2217.8	3960.6	1490.5	672.0	2225.7	-
22	Sodium(mg/l)	12450.0	8950.0	8950.0	2490.0	6650.0	5075.0	8750.0	5150.0	13225.0	9900.0	1036.0	7250.0	-
23	Total Dissolved Solids(mg/l)	34236.0	38477.0	40288.0	27398.0	15114.0	28281.0	37620.0	29901.0	32901.0	27808.0	23454.0	34348.0	-
24	Total Fixed Solids(mg/l)	20541.0	13338.0	13555.0	16439.0	6045.0	11312.0	15048.0	21827.0	19740.0	16685.0	9382.0	20608.0	-
25	Total Suspended Solids(mg/l)	28.0	76.0	6.0	20.0	15.0	18.0	6.0	17.0	6.0	9.0	5.0	8.0	-
26	Phosphate(mg/l)	BDL	BDL	0.030	0.040	BDL	0.09	0.038	0.02	0.03	0.02	BDL	0.1	-
27	Boron(mg/l)	0.52	0.90	0.6	3.2	1.7	2.8	BDL	4.04	3,284	3.28438	1.0	1.5	-
28	Potassium(mg/l)	4550.0	7300.0	7000.0	910.0	2125.0	4500.0	6982.0	2313.0	6312.5	2850.0	213.4	6150.0	-
29	Flouride(mg/l)	0.83	1.1	1.2	1.2	0.87	0.8	1.2	0.98	BDL	1.1	0.6	BDL	-
30	SAR	400.37	274.5	266.12	83.2	279.80	196.0	261.2	164.3	406.56	270.32	27.4	227.50	-
31	Percent Sodium (%)	-	-	-	65.5	88.60	87.71	87.52	79.15	90.23	82.62	30.40	86.84	-

BAINA BEACH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	31	28	27	28	27	29	30	29	30	30	30	-
2	Dissolved Oxygen(mg/l)	6.3	6.0	6.4	6.9	6.7	7.6	5.2	5.8	5.3	5.9	6.3	6.8	4 mg/l or more
3	pH	7.81	8.02	7.87	8.53	7.88	7.91	7.51	7.83	8.23	8.12	7.96	7.33	6.5 - 8.5
4	Conductivity(µs/cm)	64540.0	72950	57900	42690.0	34350	37420.0	44940	42570.0	52550.0	50640.0	65470.0	55120.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.274	0.50	0.10	0.20	0.1	0.4	0.1	BDL	0.2	1.4	0.30	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.007	0.013	0.017	0.014	0.005	0.044	0.010	0.006	BDL	BDL	0.011	0.011	-
8	Total Coliform(MPN/100ml)	350	350	140	350	540	540	540	540	540	350	350	140	-
9	Fecal Coliform(MPN/100ml)	170	140	79	170	240	350	240	240	240	170	130	79	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	79	70	49	79	140	140	170	110	110	79	110	170	-
11	Turbidity(NTU)	4.26	1.52	6.72	19.1	6.03	1.8	5.2	3.05	5.57	2.87	1.02	3.60	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	8.0	12.0	BDL	4.0	10.0	14.0	BDL	2.0	6.0	10.0	14.0	BDL	-
13	Total Alkalinity(mg/l)	104.0	142	120.0	94.0	78.0	90.0	100.0	86.0	92.0	112.0	84.0	94.0	-
14	Chlorides(mg/l)	16244.9	17494.6	17494.60	16994.70	15870.10	16494.9	17619.54	16994.7	16869.8	18244.3	17494.60	17369.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	0.56	3.36	0.56	3.36	1.12	1.68	1.68	1.68	3.9	3.4	1.10	-
17	Ammonia (mg/l)	BDL	BDL	0.08	BDL	0.06	0.08	0.23	0.09	0.01	0.05	0.08	BDL	-
18	Total Hardness(mg/l)	7200.0	8000.0	6200.0	6600.0	4000.0	6760.0	3500.0	8000.0	7000.0	8000.0	7000.0	7800.0	-
19	Calcium(mg/l)	1202.40	721.44	561.1	641.3	400.8	256.5	801.6	19.2	400.8	2.4	801.6	481.0	-
20	Magnesium(mg/l)	1020.6	1506.6	1166.4	1215.0	729.0	1487.2	364.5	777.6	1458.0	1579.5	1215.0	1603.0	-
21	Sulphate(mg/l)	4126.82	1720.86	1485.1	1476.1	2424.3	1415.5	1621.2	2251.6	2240.6	3208.1	3683.84	3575.9	-

22	Sodium(mg/l)	4000.0	8550.0	8551.0	2000.0	4350.0	2188.0	4200.0	3123.9	6000.0	1474.0	1486.0	1981.0	-
23	Total Dissolved Solids(mg/l)	36142.0	40852.0	35461.0	27322.0	22669.0	23949.0	26964.0	25265.0	30069.0	33.0	41848.0	36741.0	-
24	Total Fixed Solids(mg/l)	21685.0	24511.0	14735.0	16392.0	7556.0	14369.0	16178.0	8590.0	10223.0	11.0	14044.0	12245.0	-
25	Total Suspended Solids(mg/l)	15.0	11.0	10.0	23.0	12.0	6.0	8.0	6.0	12.0	26.0	6.0	11.0	-
26	Phosphate(mg/l)	0.020	0.038	0.06	0.03	0.04	0.02	0.06	0.08	0.02	BDL	BDL	BDL	-
27	Boron(mg/l)	1.821	1.521	0.5	3.2	2.7	1.06	1,872	4.21	2.25	2.748	0.4	0.6	-
28	Potassium(mg/l)	825.0	5300.0	5308.0	1520.0	2520.0	690.0	1238.0	1712.0	550.0	293.6	257.6	379.8	-
29	Flouride(mg/l)	0.98	1.197	0.8	0.7	1	1.4	0.4	0.7	BDL	1.1	1.2	1.0	-
30	SAR	120.0	256.16	290.95	65.7	183	74.1	173.94	156.50	196.81	52.4	46.8	61.4	-
31	Percent Sodium (%)	-	-	-	65.5	85.9	62.3	82.3	0.09	77.9	52.77	46.4	53.10	-

GALGIBAG BEACH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	29	29	28	28	29	30	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	5.8	6.1	4.5	6.5	7.3	5.5	6.2	7.6	7.3	6.3	6.6	5.2	4 mg/l or more
3	pH	7.64	7.98	8.06	7.64	8.07	7.8	7.8	7.94	7.09	8.00	8.3	8.2	6.5 - 8.5
4	Conductivity(µs/cm)	64040.0	55980	60650.0	40280.0	32770.0	51070.0	48030	51500.0	50750.0	53120.0	49980.0	53270.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	0.1	BDL	BDL	0.3	0.83	0.1	BDL	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.013	0.03	0.015	0.005	0.006	0.024	0.017	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	33	47	33	350	240	49	23	33	32	49	26	70	-
9	Fecal Coliform(MPN/100 ml)	23	40	23	130	130	33	13	27	22	33	22	46	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	17	23	4.5	79	79	22	6.8	11	13	23	7.8	94	-
11	Turbidity(NTU)	BDL	14.42	7.40	30.40	6.46	6.19	27.20	3.28	6.42	4.38	1.4	3.3	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	4.0	BDL	BDL	16.0	14.0	10.0	8.0	2.0	10.0	32.0	-
13	Total Alkalinity(mg/l)	122.0	136	134.0	80.0	62.0	114.0	88.0	82.0	80.0	120.0	112.0	70.0	-
14	Chlorides(mg/l)	17744.49	17244.6	17494.58	16744.80	13745.70	17744.5	17744.5	17744.5	17494.6	17994.42	17744.5	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.1	1.68	1.68	1.68	1.12	1.12	1.68	0.56	1.68	0.56	0.56	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	0.04	BDL	0.07	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	6600.0	8500.0	8800.0	6000.0	4200.0	7200.0	6200.0	7800.0	7600.0	6400.0	6800.0	8000.0	-
19	Calcium(mg/l)	561.12	801.6	1122.24	481.00	801.60	1042.08	561.10	1402.8	480.96	480.96	641.3	881.8	-
20	Magnesium(mg/l)	1263.6	1579.5	1458.0	1166.4	534.6	1117.8	1166.4	1555.2	1555.2	1263.6	1263.0	1409.4	-
21	Sulphate(mg/l)	2998.95	2833.5	2388.44	1409.0	4444.60	1296.3	1450.9	1125.8	1881.3	2115.05	1318.4	1813.0	-

22	Sodium(mg/l)	5325.0	2900.0	2900.0	2470.0	5510.0	5325.0	3811.0	9489.5	9150.0	4200.0	15950.0	14850.0	-
23	Total Dissolved Solids(mg/l)	33127.0	32535.0	39732.0	25779.0	18351.0	27546.0	30739.0	30902.0	29435.0	32275.0	31987.0	34093.0	-
24	Total Fixed Solids(mg/l)	19902.0	11061.0	23839.0	15467.0	11010.0	16530.0	18443.0	12361.0	19721.0	20400.0	19192.0	20456.0	-
25	Total Suspended Solids(mg/l)	17.0	30.0	4.0	24.00	12.0	17.0	19.0	8.0	19.0	115.0	2.0	7.0	-
26	Phosphate(mg/l)	BDL	BDL	0.066	0.030	0.045	0.03	0.03	0.04	0.04	0.1	0.02	0.03	-
27	Boron(mg/l)	1.9	0.2	0.665	3040.00	2.040	2.98	22,559	0.097	3,125	3.41326	1.6	1.2	-
28	Potassium(mg/l)	1550.0	2325.0	2925.0	920.00	2755.0	1200.0	1216.0	4550.0	4621.0	2275.0	1000.0	5400.0	-
29	Flouride(mg/l)	1.2	0.77	1.387	1200.00	1.129	BDL	BDL	0.2	1.7	BDL	0.7	1.95	-
30	SAR	176.29	84.05	80.90	86.1	213.17	162.04	129.7	246.8	286.77	142.21	516.82	438.75	-
31	Percent Sodium (%)	-	-	-	67.3	86.08	75.13	74.4	82.60	87.12	78.77	89.90	89.84	-
COLVA BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	29	28	27	29	30	28	30	29	30	-
2	Dissolved Oxygen(mg/l)	6.3	6.4	7.5	6.4	8.2	4.2	6.8	6.0	7.5	5.6	6.2	4.6	4 mg/l or more
3	pH	7.99	7.99	7.99	7.54	7.76	7.79	7.21	7.95	7.09	8.19	8.16	7.92	6.5 - 8.5
4	Conductivity(µs/cm)	54330.0	57150	52320.0	46140.0	22310.0	42530.0	47390	52070.0	49890.0	49320.0	42330.0	57560.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	0.8	0.1	0.15	BDL	BDL	BDL	0.1	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.14	0.07	0.01	0.018	BDL	BDL	0.006	BDL	0.01	BDL	-
8	Total Coliform(MPN/100 ml)	23	130	170	220	220	540	170	350	240	79	23	<1.8	-
9	Fecal Coliform(MPN/100 ml)	13	79	79	94	130	240	110	130	130	49	13	<1.8	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	11	33	49	79	70	110	49	110	110	23	11	<1.8	-

11	Turbidity(NTU)	20.7	14.86	22.1	16.4	4.5	7.25	6.23	4.29	8.90	5.22	4.46	8.88	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	6.0	14.0	6.0	BDL	18.0	BDL	8.0	8.0	30.0	14.0	BDL	-
13	Total Alkalinity(mg/l)	106.0	144	104.0	92.0	66.0	9.8	92.0	80.0	88.0	96.0	140.0	96.0	-
14	Chlorides(mg/l)	17994.42	17494.6	17494.58	15745.10	7872.50	16619.84	16744.81	18744.2	19368.99	17994.42	17744.49	17994.4	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.24	1.68	4.48	0.56	0.056	1.12	1.68	2.80	0.56	0.56	1.7	-
17	Ammonia (mg/l)	BDL	0.251	0.13	0.18	0.11	BDL	0.06	BDL	BDL	BDL	BDL	0.07	-
18	Total Hardness(mg/l)	6800.0	7800.0	6600.0	6000.0	3000.0	5500.0	5600.0	7000.0	6400.0	7800.0	7400.0	7000.0	-
19	Calcium(mg/l)	561.12	561.12	721.44	4.80	641.12	601.2	721.4	400.8	360.72	721.44	1202.4	961.9	-
20	Magnesium(mg/l)	1312.2	1555.2	1166.40	1166.40	340.20	972.0	923.4	1458.0	1336.5	1458.0	1069.2	1117.8	-
21	Sulphate(mg/l)	1647.60	2781.56	2341.92	1446.30	990.68	566.2	2035.69	3090.70	1400.35	4868.89	11929.6	6220.3	-
22	Sodium(mg/l)	3160.0	8000.0	8000.0	4800.0	7900.0	9600.0	3350.0	2921.0	2722.0	7350.0	2250.0	2073.0	-
23	Total Dissolved Solids(mg/l)	29871.0	32004.0	27389.0	30753.0	14947.0	27119.0	26862.0	33325.0	42553.0	26481.0	24148.0	34536.0	-
24	Total Fixed Solids(mg/l)	18053.0	19202.0	16441.0	10252.0	8968.0	10847.0	16115.0	21427.0	32248.0	15880.0	14488.0	13814.0	-
25	Total Suspended Solids(mg/l)	43.0	35.0	33.0	30.0	14.0	12.0	21.0	51.0	161.0	6.0	5.0	14.0	-
26	Phosphate(mg/l)	BDL	0.028	0.09	0.06	0.10	0.05	0.07	BDL	0.11	BDL	0.03	BDL	-
27	Boron(mg/l)	1.8	1.45	1.4	3.3	1.7	0.1	3,362	3.88	4,790	3.1946	1.94	0.3	-
28	Potassium(mg/l)	680.0	6500.0	6500.0	1750.0	7075.0	2415.0	975.0	764.0	378.4	3425.0	1300.0	400.3	-
29	Flouride(mg/l)	0.9	1.474	0.9	1.3	0.7	1.03	BDL	2.04	BDL	1.1	BDL	0.4	-
30	SAR	103.25	245.93	260.39	198.40	356.60	342.3	116.81	95.8	93.44	222.65	66.76	64.3	-
31	Percent Sodium (%)	-	-	-	84.8	88.96	88.42	72.45	66.47	64.62	83.18	60.98	54.32	-

VELSAO BEACH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	30	28	28	28	28	28	29	29	30	31	31	-
2	Dissolved Oxygen(mg/l)	5.9	6.6	7.1	6.7	8.0	6.2	7.1	6.2	7.0	7.1	7.0	7.5	4 mg/l or more
3	pH	8.13	7.82	8.07	6.62	8.13	7.81	7.9	7.87	7.92	7.92	7.20	8.21	6.5 - 8.5
4	Conductivity(µs/cm)	53190	61010	60070.0	39890.0	33380.0	51090.0	51930	16100.0	47210.0	47210.0	27400.0	38270.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.43	BDL	0.3	0.3	0.2	BDL	1.3	0.1	1.6	0.1	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.020	0.022	0.007	0.039	0.024	BDL	BDL	BDL	0.018	0.007	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	49	33	240	140	240	170	23	46	350	240	33	<1.8	-
9	Fecal Coliform(MPN/100 ml)	23	23	130	110	130	70	13	23	130	130	23	<1.8	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	13	11	39	49	110	46	6.8	13	94	49	13	170	-
11	Turbidity(NTU)	14.89	5.01	11.3	20.1	8.49	2.52	4.85	9.12	8.33	8.33	5	5.67	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	10.0	BDL	12.0	2.0	6.0	10.0	14.0	4.0	10.0	14.0	4.0	16.0	-
13	Total Alkalinity(mg/l)	114	140	122.0	86.0	82.0	84.0	92.0	106.0	80.0	104.0	100.0	74.0	-
14	Chlorides(mg/l)	15870.1	17122.4	17244.7	16869.0	9497.9	17619.5	17494.58	17994.4	17244.7	17244.7	17619.5	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.8	2.8	1.12	1.12	1.68	1.12	0.56	1.12	1.12	1.12	0.56	1.12	-
17	Ammonia (mg/l)	0.14	0.46	0.06	0.12	0.10	0.07	0.03	0.13	0.08	BDL	BDL	0.54	-
18	Total Hardness(mg/l)	7600.00	7600.0	6400.0	5000.0	5600.0	6200.0	7600.0	6400.0	7200.0	6400.0	7800.0	7000.0	-
19	Calcium(mg/l)	561.12	480.96	481.0	561.1	1362.7	481.0	1763.52	1523.00	641.3	561.1	641.3	801.6	-
20	Magnesium(mg/l)	1506.6	1555.2	1263.6	874.80	534.6	1215.0	777.6	631.8	1360.8	1215.0	1506.6	1215.0	-

21	Sulphate(mg/l)	908.52	2201.5	1920.7	1662.5	8784.5	2138.2	2539.06	6782.70	2135.9	2689.9	1024.0	2240.5	-
22	Sodium(mg/l)	7775.0	11950.0	11945.0	3582.0	6975.0	6760.0	5075.0	3975.0	14300.0	6150.0	10650.0	9886.3	-
23	Total Dissolved Solids(mg/l)	35105.0	40876.0	39646.0	23934.0	21363.0	32698.0	27951.0	10304.0	30214.0	27381.0	17536.0	21431.0	-
24	Total Fixed Solids(mg/l)	21063.0	24525.0	23788.0	17232.0	12817.0	19619.0	16771.0	6182.0	1812.8	17797.0	10522.0	12858.0	-
25	Total Suspended Solids(mg/l)	27.0	9.0	24.0	23.0	3.0	7.0	11.0	15.0	12.0	21.0	6.0	12.0	-
26	Phosphate(mg/l)	0.143	0.142	0.06	0.08	0.10	0.03	0.04	0.12	0.06	0.03	0.02	0.02	-
27	Boron(mg/l)	1.96	1.98	1.2	3.0	2.8	2,976	2.33	1,194	4,503	2.734	1.9	0.428	-
28	Potassium(mg/l)	2025.0	11525.0	11530.0	1384.0	4500.0	1935.0	1225.0	3325.0	1050.0	3125.0	775.0	4943.2	-
29	Flouride(mg/l)	1.47	1.33	1.1	1.2	BDL	1.0	BDL	0.8	1.2	BDL	1.0	1.381	-
30	SAR	241.81	374.52	404.44	133.68	226.46	232.1	142.38	121.10	451.97	206.37	324.98	311.34	-
31	Percent Sodium (%)	-	-	-	77.57	85.81	83.7	71.26	77.21	88.46	83.93	84.18	83.47	-
BOGMALO BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	30	28	27	28	27	29	29	29	30	29	30	-
2	Dissolved Oxygen(mg/l)	6.4	6.3	6.9	7.2	6.7	7.6	5.4	5.6	6.2	5.7	7.1	5.3	4 mg/l or more
3	pH	7.9	7.97	8.18	8.23	7.69	6.64	7.89	7.46	8.22	8.17	7.52	7.81	6.5 - 8.5
4	Conductivity(µs/cm)	65210	73220	59340	40470	32400	46690.0	48230	46720.0	52170.0	33250.0	68380.0	55850.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.7	0.1	0.3	0.1	0.2	0.1	0.1	BDL	1.0	0.10	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	0.005	0.021	0.012	0.009	0.052	0.005	BDL	BDL	BDL	0.025	0.009	-
8	Total Coliform(MPN/100 ml)	17	21	23	170	220	280	540	240	220	280	70	17	-
9	Fecal Coliform(MPN/100 ml)	13	13	13	130	130	170	240	130	79	94	49	12	100 or less MPN/100 ml

10	Fecal Streptococci (MPN/100ml)	7.8	9.2	7.8	70	33	110	130	110	23	33	33	15	-
11	Turbidity(NTU)	0.1	0.74	15.12	12.05	7.32	2.1	7.03	2.70	5.27	3.1	1.88	4.40	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	16	16	BDL	8.00	10.00	14.0	18.0	2.0	4.0	14.0	12.0	6.0	-
13	Total Alkalinity(mg/l)	110.0	140	122.0	86.0	76.0	104.0	80.0	92.0	86.0	106.0	70.0	90.0	-
14	Chlorides(mg/l)	15745.1	17244.7	17244.7	16744.8	14370.5	17369.6	17369.6	17119.7	16994.7	17369.6	17744.50	17619.5	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.12	2.8	0.56	2.8	0.56	1.68	1.68	1.68	3.4	3.9	1.70	-
17	Ammonia (mg/l)	0.06	BDL	BDL	BDL	0.06	0.05	0.11	0.08	0.02	0.05	BDL	BDL	-
18	Total Hardness(mg/l)	6400	8800	7400.0	6000	4800.0	6000.0	9500.0	8000.0	6600.0	6500.0	5500.0	7400.0	-
19	Calcium(mg/l)	561.12	801.6	641.3	561.1	320.6	352.7	1002.0	19.2	481.0	4.8	801.6	801.6	-
20	Magnesium(mg/l)	1215.0	1652.4	1409.4	1117.8	972.0	1244.2	1701.0	777.6	1312.0	850.5	850.5	1312.2	-
21	Sulphate(mg/l)	2936.6	1854.38	2913.1	1222.6	1982.0	1512.4	4545.1	2125.7	2101.9	3739.0	4201.0	3564.1	-
22	Sodium(mg/l)	4175	8250	8257.0	2260	4200.0	3820.0	5100.0	3080.0	5580.0	1381.0	1511.0	1949.0	-
23	Total Dissolved Solids(mg/l)	36517.0	41003.0	36341.0	25901.0	21577.0	29882.0	28938.0	28083.0	29434.0	21945.0	44782.0	36556.0	-
24	Total Fixed Solids(mg/l)	21910.0	24601.0	14992.0	15541.0	7193.0	17929.0	17362.0	9548.0	10007.0	7315.0	14941.0	12184.0	-
25	Total Suspended Solids(mg/l)	12.0	10.0	20.0	15.0	16.0	10.0	10.0	5.0	11.0	17.0	4.0	15.0	-
26	Phosphate(mg/l)	BDL	BDL	0.04	0.02	0.03	0.02	0.03	0.12	0.02	BDL	BDL	BDL	-
27	Boron(mg/l)	1.776	1.412	0.5	3.2	2.0	2,795	2,012	4.38	2,203	2.694	0.4	0.8	-
28	Potassium(mg/l)	875	5350	5357.0	920	2720.0	1100.0	1328.0	1565.0	550.0	273.4	74.1	389.0	-
29	Flouride(mg/l)	1.54	1.386	0.8	1.1	1.1	1.4	1.1	0.8	BDL	1.0	1.2	1.1	-
30	SAR	140.1	235.52	257.86	78	165.2	135.2	138.73	154.31	186.35	6.68	52.6	60.0	-
31	Percent Sodium (%)	-	-	-	65.5	84.3	75.5	70.4	85.4	77.4	32.48	49.0	52.50	-

BETALBATIM BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	28	29	28	27	29	30	28	30	30	30	-
2	Dissolved Oxygen(mg/l)	6.2	6.5	6.4	6.4	7.6	6.5	8.0	6.0	6.4	4.3	7.6	7.3	4 mg/l or more
3	pH	7.97	8.05	8.16	7.6	7.76	7.92	7.57	7.86	7.96	8.21	8.14	7.98	6.5 - 8.5
4	Conductivity(µs/cm)	54330.0	56180	53390.0	48180	27520.0	52880.0	53010	50600	49910	47850	38080.0	57670.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	1.2	0.2	0.1	BDL	0.1	BDL	0.3	BDL	0.11	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.009	BDL	0.015	0.068	BDL	0.023	BDL	BDL	0.007	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	130	130	23	23	79	240	130	220	130	33	23	150	-
9	Fecal Coliform(MPN/100 ml)	79	79	13	13	49	130	79	110	79	23	13	84	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	49	33	7.8	11	17	7.8	23	49	40	7.8	11	130	-
11	Turbidity(NTU)	21.8	18.61	19.2	20.0	26.1	5.32	5.47	2.32	8.82	5.04	3.67	7.48	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	6.0	BDL	4.0	BDL	6.0	16.0	8.0	8.0	8.0	20.0	BDL	BDL	-
13	Total Alkalinity(mg/l)	114.0	148	24.0	98.0	64.0	11.4	92.0	82.0	86.0	122.0	148.0	92.0	-
14	Chlorides(mg/l)	17494.6	16245.0	17494.6	16370	10121.9	17369.60	17244.65	18869.5	19244.03	17494.58	16494.88	17744.5	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	2.2	1.1	3.9	1.1	1,121	1.12	2.24	3.36	0.56	0.56	1.68	-
17	Ammonia (mg/l)	0.06	0.07	0.05	0.11	0.06	BDL	0.078	BDL	BDL	BDL	0.01	BDL	-
18	Total Hardness(mg/l)	6600	8000	8400.0	6400.0	3200.0	7000.0	6600.0	6500	6200	7400	8400	9800.0	-
19	Calcium(mg/l)	1122.2	1603.2	961.9	561.1	240.5	801.6	1362.72	601.2	400.8	801.6	561.1	721.4	-
20	Magnesium(mg/l)	915.8	972.0	1458.0	1215	631.8	1215.0	777.6	1215	1263.2	1312.2	1701.0	1944.0	-
21	Sulphate(mg/l)	1668.4	252.2	2441.9	1640.0	1735.9	596.0	6210.7	3433.3	1357.92	3122.9	1382.4	4097.7	-

22	Sodium(mg/l)	3920.0	1535.0	1529.0	5305.0	9.8	9328.0	5075.0	4865.0	2925.0	7825.0	4050.0	2029.0	-
23	Total Dissolved Solids(mg/l)	33141.0	31775.0	30656.0	31729.0	18438.0	33743.0	29685.0	31878	43360	27692	24371.0	34602.0	-
24	Total Fixed Solids(mg/l)	23198.0	10803.0	10423.0	10583.0	11062.0	13497.0	17811.0	21358.0	31816.0	16612.0	14622.0	13841.0	-
25	Total Suspended Solids(mg/l)	19.0	36.0	39.0	39.0	39.0	8.0	9.0	45.0	165.0	11.0	4.0	12.0	-
26	Phosphate(mg/l)	BDL	0.03	0.03	0.05	0.22	0.06	0.07	0.03	0.14	BDL	0.03	0.02	-
27	Boron(mg/l)	1.2	0.3	0.5	3.6	2.0	0.1	3,739	3.62	5,035	3.38257	1.83	0.2	-
28	Potassium(mg/l)	800.0	1132.0	1128	2100	7350	2310.0	2537.5	2351.0	398.2	3350.0	2700.0	390.5	-
29	Flouride(mg/l)	0.4	0.9	0.6	1.4	0.5	1.1	BDL	1.95	BDL	1.2	BDL	0.2	-
30	SAR	122.8	42.78	43.96	178.00	434.54	293.8	155.14	161.4	101.39	240.7	120.42	55.6	-
31	Percent Sodium (%)	-	-	-	80.7	94.96	85.23	78.05	79.89	66.63	84.09	74.90	47.58	-
BENAULIM BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	28	28	29	28	27	29	30	28	30	30	30	-
2	Dissolved Oxygen(mg/l)	5.4	6.3	7.9	6.1	7.3	6.7	8.0	6.2	6.4	6.2	6.4	6.4	4 mg/l or more
3	pH	7.98	8.03	7.79	7.74	7.76	7.87	7.48	7.34	11.52	8.10	7.96	7.82	6.5 - 8.5
4	Conductivity(µs/cm)	53810.0	57700	52630.0	45840.0	26990.0	25550.0	52220	51800	50050	48080	46980.0	5831.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	BDL	0.4	0.2	0.15	BDL	BDL	BDL	0.30	BDL	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.005	BDL	0.011	0.019	0.007	0.022	0.005	0.005	0.007	BDL	0.01	BDL	-
8	Total Coliform(MPN/100 ml)	33	23	23	49	23	240	170	240	140	49	79	210	-
9	Fecal Coliform(MPN/100 ml)	17	13	13	23	13	130	94	130	79	33	49	110	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	14	4.5	7.8	17	11	33	46	79	40	22	23	79	-
11	Turbidity(NTU)	23.0	18.7	22.0	14.4	9.4	1.06	6.82	6.45	11.52	4.50	5.14	7.50	30 NTU

12	Phenolphthalein Alkalinity(mg/l)	6.0	22.0	18.0	10.0	6.0	16.0	10.0	8.0	8.0	20.0	8.0	BDL	-
13	Total Alkalinity(mg/l)	108.0	128	104.0	86.0	64.0	10.2	86.0	78.0	88.0	94.0	122.0	96.0	-
14	Chlorides(mg/l)	16744.81	15995.0	17744.49	17869.5	9372.09	16994.70	17244.65	18994.1	19868.8	17744.5	17994.42	17994.4	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.68	1.12	0.56	1.12	0.56	1,681	1.12	1.12	3.9	1.12	0.56	1.12	-
17	Ammonia (mg/l)	BDL	BDL	0.06	0.12	0.10	0.08	0.27	BDL	BDL	BDL	0.01	0.05	-
18	Total Hardness(mg/l)	6800.0	8600.0	6000.0	4600.0	3600.0	7500.0	5800.0	8000.0	6500	5400	8000.0	8200.0	-
19	Calcium(mg/l)	561.12	801.6	801.60	320.6	561.12	601.20	480.96	601.40	440.88	641.28	881.76	641.3	-
20	Magnesium(mg/l)	1312.2	1603.8	972.0	923.4	534.6	1458.0	1117.8	1579.5	1312.2	923.4	1409.4	1603.8	-
21	Sulphate(mg/l)	1481.29	2774.15	2034.90	1453.70	972.72	521.5	2724.12	3265.50	1428.65	3889.43	2086.40	5571.7	-
22	Sodium(mg/l)	4580.0	8254.0	8254.0	8231.0	7100.0	9525.0	5950.0	5284.0	2703.0	7700.0	4450.0	1947.0	-
23	Total Dissolved Solids(mg/l)	28369.0	32312.0	27816.0	29338.0	18353.0	16152.0	27574.0	32116.0	38681.0	25825.0	30067.0	34986.0	-
24	Total Fixed Solids(mg/l)	17032.00	19387.0	16690.0	11735.0	11011.0	6460.0	16545.0	22160.0	25010.0	15488.0	18040.0	13994.0	-
25	Total Suspended Solids(mg/l)	19.0	36.0	37.0	20.0	22.0	8.0	11.0	36.0	176.0	8.0	7.0	12.0	-
26	Phosphate(mg/l)	0.02	0.099	0.07	0.03	0.07	0.07	0.09	0.05	0.17	BDL	0.03	0.03	-
27	Boron(mg/l)	1.9	1.316	1.5	3.6	2.0	2.0	3,715	3.99	4,482	3.41194	1.92	BDL	-
28	Potassium(mg/l)	740.0	6211.0	6211.0	5436.0	6350.0	2400.0	1352.0	1107.0	388.8	2350.0	1800.0	383.2	-
29	Flouride(mg/l)	0.6	1.382	1.2	1.2	0.9	1.12	BDL	2.09	BDL	1.2	BDL	0.6	-
30	SAR	149.65	238.0	277.17	330.00	303.34	296.9	210.45	160.0	91.29	275.29	131.48	58.1	-
31	Percent Sodium (%)	-	-	-	91.7	92.47	85.27	82.04	74.56	63.81	86.53	73.18	50.9	-
VARCA BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	28	28	29	28	29	29	30	28	30	30	30	-
2	Dissolved Oxygen(mg/l)	6.1	6.1	6.8	6.4	6.7	6.5	7.2	7.3	5.3	4.7	7.2	8.0	4 mg/l or more

3	pH	7.99	8.02	8.14	7.04	7.76	7.9	7.71	7.78	7.08	8.08	8.20	7.24	6.5 - 8.5
4	Conductivity(µs/cm)	54020.0	56930	53240.0	46380.0	31250.0	42820.0	52240	50980	49530	47460	40770.0	57260.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	BDL	0.3	0.6	0.1	0.14	BDL	BDL	BDL	0.1	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.009	0.062	0.006	0.026	BDL	0.005	0.007	BDL	0.01	BDL	-
8	Total Coliform(MPN/100 ml)	34	33	33	240	70	79	140	79	70	23	49	<1.8	-
9	Fecal Coliform(MPN/100 ml)	22	17	23	49	49	49	79	49	46	13	23	<1.8	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	17	7.8	6.8	23	22	11	49	23	17	9.2	13	<1.8	-
11	Turbidity(NTU)	17.6	17.1	22.4	24.8	8.18	5.97	8.9	5.96	7.09	4.08	9.06	7.51	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	6.0	BDL	BDL	10.0	8.0	16.0	12.0	4.0	8.0	12.0	14.00	6.0	-
13	Total Alkalinity(mg/l)	112	146	124.0	84.0	78.0	10.0	84.0	96.0	84.0	96.0	136.0	94.0	-
14	Chlorides(mg/l)	17494.58	17119.7	17744.5	13371	11621.4	17744.50	17494.58	17994.42	17744.49	17744.50	17649.54	17994.4	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.7	1.7	3.4	1.1	0.056	1.12	0.56	2.80	1.12	2.24	1.7	-
17	Ammonia (mg/l)	BDL	BDL	0.1	0.1	BDL	BDL	BDL	0.06	BDL	0.07	0.01	BDL	-
18	Total Hardness(mg/l)	7000.0	7200.0	7600.0	5800.0	3400.0	6000.0	6200.0	5200.0	6700.0	8000.0	8000.0	7400.0	-
19	Calcium(mg/l)	561.12	561.1	801.6	320.6	400.1	400.8	561.12	641.28	360.72	1042.00	641.28	561.1	-
20	Magnesium(mg/l)	1360.8	1409.4	1360.8	1215.0	583.2	1215.0	1166.4	874.8	1409.4	1312.2	1555.20	1458.0	-
21	Sulphate(mg/l)	1522.87	16125.6	2391.9	7335.7	1948.4	633.3	2383.61	1603.40	1369.24	4443.04	4768.0	7885.9	-
22	Sodium(mg/l)	3420.0	5100.0	5096.0	4790.0	7850.0	9425.0	5325.0	6075.0	2947.0	7800.0	7100.0	2096.0	-
23	Total Dissolved Solids(mg/l)	28961.0	34158.0	29878.0	30356.0	20937.0	27304.0	27981.0	29058.0	41390.0	26220.0	26092.0	34356.0	-
24	Total Fixed Solids(mg/l)	17376.0	13663.0	10158.0	10116.0	12562.0	10921.0	16789.0	17434.0	30940.0	15729.0	15655.0	13742.0	-
25	Total Suspended Solids(mg/l)	39.0	14.0	44.0	50.0	15.0	11.0	12.0	6.0	134.0	11.0	12.0	10.0	-
26	Phosphate(mg/l)	0.02	0.03	0.04	0.03	0.06	0.05	0.05	0.07	0.08	BDL	0.04	BDL	-

27	Boron(mg/l)	1.9	0.5	0.3	3.5	2.3	0.1	3,532	0.181	5.040	3.59282	1.90	0.4	-
28	Potassium(mg/l)	720.0	1450.0	1446.0	2085.0	7325.0	2428.0	1200.0	1350.0	418.1	1250.0	5075.0	392.9	-
29	Flouride(mg/l)	0.9	BDL	0.7	1.3	1.0	0.97	1.6	BDL	BDL	0.7	BDL	0.5	-
30	SAR	110.32	47.8	154.98	172.9	353.91	331.60	181.19	220.65	99.06	227.34	214.24	66.0	-
31	Percent Sodium (%)	-	-	-	81.7	93.91	88.00	79.07	83.04	65.53	79.36	84.72	55.21	-

AGONDA BEACH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	32	29	29	29	28	28	29	30	30	31	30	30	-
2	Dissolved Oxygen(mg/l)	6.1	6.4	6.7	6.6	7.2	8.2	6.0	6.0	6.2	5.8	7.0	6.8	4 mg/l or more
3	pH	8.12	7.94	8.03	7.73	7.77	7.91	7.17	7.87	7.04	7.86	8.4	8.2	6.5 - 8.5
4	Conductivity(µs/cm)	53170.0	56910	60550.0	42390.0	18630.0	49230.0	49480	51220.0	50660.0	52860.0	42340.0	53800.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	0.7	BDL	BDL	BDL	BDL	2.8	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	BDL	0.1	0.1	0.1	BDL	0.1	0.5	0.1	BDL	0.1	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.049	BDL	BDL	0.033	0.012	0.006	BDL	0.053	0.019	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	33	63	79	220	170	220	33	46	110	140	79	63	-
9	Fecal Coliform(MPN/100 ml)	17	46	33	110	79	70	13	33	79	79	33	58	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	14	23	21	70	46	40	11	17	70	49	17	49	-
11	Turbidity(NTU)	7.26	14.23	1.83	15.34	8.10	2.71	1.61	3.18	5.29	3.86	4.7	2.9	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	4.0	4.0	10.0	BDL	BDL	14.0	18.0	10.0	14.0	2.0	20.0	46.0	-
13	Total Alkalinity(mg/l)	120.0	152	116.0	92.0	50.0	112.0	80.0	106.0	74.0	112.0	108.0	64.0	-
14	Chlorides(mg/l)	17994.4	16994.7	18494.3	17494.6	7170.6	16994.73	17244.7	17494.5	17494.6	18244.34	17494.6	17244.7	-

15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	3.4	1.12	1.681	0.560	1.680	1.68	0.56	1.12	1.12	4.48	0.56	0.56	-
17	Ammonia (mg/l)	BDL	0.05	0.05	0.07	BDL	0.08	BDL	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	3600.0	7600.0	3200.0	5400.0	3500.0	6400.0	7400.0	8200.0	7200.0	6600.0	8000.0	9800.0	-
19	Calcium(mg/l)	200.4	881.8	961.9	481.0	320.6	881.76	561.1	1402.0	480.96	561.12	721.40	721.4	-
20	Magnesium(mg/l)	753.3	1312.2	680.4	1020.6	656.1	1020.6	1458.0	1652.4	1458.0	1263.6	1506.6	1944.0	-
21	Sulphate(mg/l)	1611.2	2083.6	331.3	2460.2	269.4	1706.05	1680.4	985.9	1683.3	2888.68	921.6	1724.6	-
22	Sodium(mg/l)	4650.0	8825.0	8823.0	9825.0	2070.0	3225.0	4999.0	9695.2	9272.0	4575.0	16450.0	14200.0	-
23	Total Dissolved Solids(mg/l)	34804.0	35284.0	40191.0	23738.0	9937.0	26753.0	31670.0	30730.0	30396.0	31336.0	27098.0	34432.0	-
24	Total Fixed Solids(mg/l)	11327.0	25051.0	13402.0	14242.0	3378.0	16050.0	19002.0	12292.0	20365.0	20922.0	16259.0	20659.0	-
25	Total Suspended Solids(mg/l)	87.0	24.0	4.0	28.0	20.0	21.0	10.0	7.0	22.0	98.0	3.0	7.0	-
26	Phosphate(mg/l)	BDL	BDL	0.03	0.02	0.05	0.03	0.02	0.03	0.04	0.06	0.02	0.02	-
27	Boron(mg/l)	0.8	0.86	0.2	2.9	1.3	3,001	19,485	3,270	2,940	3.41055	1.7	1.3	-
28	Potassium(mg/l)	400.0	4300.0	4300.0	5100.3	750.0	775.0	1122.0	4600.0	4712.0	2250.0	950.0	3700.0	-
29	Flouride(mg/l)	0.5	1.25	0.9	0.9	0.7	1.0	BDL	BDL	1.0	1.58	0.8	1.96	-
30	SAR	106.5	266.45	307.90	358.57	93.70	104.57	157.3	248.06	297.79	151.49	492.86	388.97	-
31	Percent Sodium (%)	-	-	-	90.86	74.30	67.77	75.2	82.4	87.82	78.90	88.65	87.04	-
PALOLEM BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	31	30	29	29	28	28	29	30	30	31	30	30	-
2	Dissolved Oxygen(mg/l)	6.1	6.2	6.7	7.3	6.9	6.6	6.5	6.0	6.9	7.1	6.9	7.6	4 mg/l or more
3	pH	7.9	7.94	9.24	7.53	7.76	7.85	7.89	8.0	7.01	8.14	8.4	8.2	6.5 - 8.5
4	Conductivity(µs/cm)	52900.0	55820	60380.0	41000.0	32260.0	49930.0	60380	49740.0	48460.0	53040.0	49180.0	53600.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	BDL	1.5	BDL	BDL	3 mg/l or less

6	Nitrate Nitrogen as NO_3-N(mg/l)	0.13	BDL	BDL	0.185	BDL	BDL	0.2	0.61	BDL	BDL	0.1	0.1	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.006	0.032	0.016	0.008	0.013	0.049	0.012	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	79	49	240	350	280	170	170	220	540	350	350	120	-
9	Fecal Coliform(MPN/100 ml)	49	33	130	130	110	94	79	94	350	130	79	79	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	23	17	110	94	79	70	46	49	220	110	49	63	-
11	Turbidity(NTU)	7.56	12.42	5.91	17.22	8.18	3.81	5.91	2.58	3.66	3.10	3.6	4.2	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	14.0	BDL	6.0	BDL	BDL	16.0	6.0	8.0	8.0	6.0	14.0	24.0	-
13	Total Alkalinity(mg/l)	110.0	138	126.0	92.0	72.0	110.0	124.0	106.0	86.0	118.0	112.0	78.0	-
14	Chlorides(mg/l)	16994.73	16994.7	17744.5	16994.7	11497.8	16494.88	17494.60	17119.7	17244.7	18744.19	17744.5	17494.6	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.7	1.12	1.68	1.68	2.80	1.1	1.1	1.68	2.80	0.56	1.12	-
17	Ammonia (mg/l)	BDL	0.37	BDL	0.23	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	6800.0	8500.0	8400.0	5400.0	4000.0	6400.0	8200.0	7600.0	7000.0	6400.0	6200.0	7400.0	-
19	Calcium(mg/l)	561.12	801.6	881.76	400.8	400.80	721.44	881.8	1202.4	721.4	400.8	801.6	881.76	-
20	Magnesium(mg/l)	1312.2	1579.5	1506.6	1069.2	729.0	1117.8	1453.0	1555.2	1263.6	1312.2	1020.6	1263.6	-
21	Sulphate(mg/l)	1725.57	1750.5	860.43	1848.8	651.00	1326.1	725.4	811.1	1640.0	2051.18	985.6	1886.7	-
22	Sodium(mg/l)	7475.0	2625.0	2625.0	5482.2	3400.0	4675.0	2625.0	9454.0	9093.0	4800.0	16600.0	14750.0	-
23	Total Dissolved Solids(mg/l)	33856.0	31387.0	38643.0	22960.0	17639.0	27133.0	36220.0	29849.0	28591.0	32576.0	31475.0	34304.0	-
24	Total Fixed Solids(mg/l)	20313.0	10671.0	23185.0	13777.0	5997.0	16281.0	14488.0	11939.0	19727.0	21877.0	18885.0	20582.0	-
25	Total Suspended Solids(mg/l)	17.0	28.0	3.0	30.0	25.0	9.0	10.0	7.0	20.0	129.0	8.0	10.0	-
26	Phosphate(mg/l)	BDL	0.03	0.029	BDL	0.090	0.03	0.02	0.04	0.03	0.04	BDL	0.02	-
27	Boron(mg/l)	0.37	0.1	0.402	3120.0	2.170	2,931	BDL	3,772	2,928	3.451	1.6	1.3	-
28	Potassium(mg/l)	3425.0	2125.0	2125.0	2330.0	1250.0	1325.0	2125.0	4360.0	4569.0	2250.0	1000.0	5300.0	-
29	Flouride(mg/l)	1.15	0.83	1.357	0.738	0.700	1.0	1.4	BDL	1.5	BDL	0.7	1.93	-

30	SAR	244.24	76.09	75.86	202.21	143.10	154.16	76.8	254.6	288.63	163.99	549.95	450.36	-
31	Percent Sodium (%)	-	-	-	84.16	80.50	76.54	67.05	83.36	87.31	80.45	90.62	90.33	-
RAJBHAG BEACH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	31	30	29	29	28	28	29	30	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	5.7	7.2	6.5	7.1	7.1	6.5	6.2	6.0	6.5	5.6	4.2	6.8	4 mg/l or more
3	pH	7.95	7.67	8.20	7.63	7.76	7.84	7.64	8.02	7.12	7.97	8.2	8.2	6.5 - 8.5
4	Conductivity(µs/cm)	53420.0	56380	60650.0	40150.0	20910.0	41640.0	50290	41920.0	49730.0	52700.0	51500	54160.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	1.3	BDL	BDL	BDL	BDL	2.8	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.22	0.2	BDL	0.1	BDL	BDL	0.2	0.2	0.1	BDL	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.006	0.008	0.009	0.029	0.01	0.008	BDL	0.019	0.02	BDL	BDL	BDL	-
8	Total Coliform(MPN/100 ml)	33	23	33	240	220	240	23	39	33	49	33	110	-
9	Fecal Coliform(MPN/100 ml)	23	13	23	79	130	79	7.8	27	23	23	23	79	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	13	7.8	6.8	33	39	49	4.5	11	13	13	17	84	-
11	Turbidity(NTU)	19.6	22.8	5.57	3.76	7.81	11.89	24.50	3.40	4.79	4.86	1.9	1.5	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	14.0	BDL	4.0	BDL	BDL	14.0	12.0	10.0	10.0	4.0	10.0	16.0	-
13	Total Alkalinity(mg/l)	116.0	138	138.0	82.0	58.0	100.0	96.0	84.0	84.0	120.0	122.0	80.0	-
14	Chlorides(mg/l)	17744.5	17494.6	17244.65	16994.7	7912.40	16744.81	17619.50	16869.80	17369.60	18994.11	17994.4	17744.5	-
15	COD(mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	1.12	1.7	1.68	1.68	2.24	2.24	1.68	1.12	1.12	2.80	0.56	1.12	-
17	Ammonia (mg/l)	BDL	BDL	BDL	BDL	0.06	0.07	0.12	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	6400.0	7500.0	8800.0	800.0	2250.0	6200.0	7400.0	6800.0	7400.0	6600.0	6400.0	7200.0	-
19	Calcium(mg/l)	320.64	801.6	721.44	240.5	320.6	561.12	641.3	1202.4	561.11	480.96	561.1	400.8	-

20	Magnesium(mg/l)	1360.8	1336.5	1701.0	48.6	352.4	1166.4	1409.4	1360.8	1458.0	1312.2	1215.0	1506.6	-
21	Sulphate(mg/l)	2250.52	3145.00	1706.025	2147.0	389.100	1124.95	1813.6	798.2	1916.6	2327.98	1100.8	1562.4	-
22	Sodium(mg/l)	7425.0	3025.0	3025.0	2420.0	2120.0	3350.0	6481.0	9378.1	9475.0	4400.0	16450.0	13900.0	-
23	Total Dissolved Solids(mg/l)	35257.0	30304.0	38816.0	25696.0	11697.0	22167.0	32186.0	25154.0	29340.0	34767.0	32960.0	34662.0	-
24	Total Fixed Solids(mg/l)	21154.0	10303.0	23289.0	15418.0	3976.0	13306.0	19312.0	10062.0	19951.0	23094.0	19776.0	20797.0	-
25	Total Suspended Solids(mg/l)	23.0	45.0	3.0	11.0	19.0	13.0	17.0	8.0	21.0	110.0	4.0	6.0	-
26	Phosphate(mg/l)	0.063	0.03	0.033	0.09	0.040	0.02	0.02	0.03	0.06	0.10	0.03	0.02	-
27	Boron(mg/l)	0.63	0.63	0.51	2.75	1.38	2,635	20,887	3,661	3,050	3.44154	1.7	1.2	-
28	Potassium(mg/l)	3550.0	2025.0	2025.0	870.0	780.0	975.0	2511.0	4150.0	4748.0	2275.0	1050.0	4900.0	-
29	Flouride(mg/l)	1.08	0.86	1.442	1.20	0.9	0.8	0.2	BDL	1.1	BDL	0.6	1.52	-
30	SAR	256.08	92.52	86.92	201.3	115.6	113.99	202.4	261.96	298.20	146.96	552.01	450.10	-
31	Percent Sodium (%)	-	-	-	91.9	81.2	71.46	81.4	84.1	87.57	78.82	90.79	90.79	-
UPSTREAM OF RIVER MANDOVI, M/S VEDANTA PVT. LTD.														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	29	27	28	29	28	30	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	5.2	6.0	5.9	7.7	7.1	6.2	8.1	6.9	5.2	4.5	5.9	6.7	4 mg/l or more
3	pH	7.41	7.35	7.50	7.65	7.72	6.72	6.45	6.73	6.98	7.07	7.21	7.43	6.5 - 8.5
4	Conductivity(µs/cm)	35750.0	37720.00	31750.00	94.34	90.91	1372.0	123.2	344.0	9084.0	19610.0	28040.0	31810.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.5	BDL	BDL	0.2	0.1	BDL	0.124	0.15	0.2	0.3	BDL	0.10	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.031	0.02	0.013	0.005	0.006	BDL	0.006	0.006	BDL	0.080	0.037	0.032	-
8	Total Coliform(MPN/100 ml)	170	130	270	4900	1700	2200	2600	2400	4900	3500	2000	920	-
9	Fecal Coliform(MPN/100 ml)	140	79	170	2300	1300	1300	1700	1400	2300	1700	1400	350	100 or less MPN/100 ml

10	Fecal Streptococci (MPN/100ml)	45	17	78	170	140	120	210	170	170	110	130	280	-
11	Turbidity(NTU)	2.81	2.03	7.18	23.0	23.20	4.73	18.45	8.07	3.69	2.65	5.10	5.11	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	90.0	106.0	82.0	18.0	16.0	24.0	28.0	30.0	38.0	62.0	74.0	74.0	-
14	Chlorides(mg/l)	10371.0	15995.00	11398.59	16.49	17.5	32.99	25.49	33.5	3398.9	6398.02	10746.7	12496.1	-
15	COD(mg/l)	-	-	-	8.0	4.0	4.0	6.0	6.0	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.6	1.7	2.8	1.68	1.12	0.56	1.68	1.12	1.12	0.56	1.68	1.12	-
17	Ammonia (mg/l)	0.05	BDL	0.074	0.11	BDL	BDL	0.053	BDL	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	5000.0	8000.0	3500.0	22.0	22.0	36.0	22.0	26.0	1200.0	2020.0	3160.0	9600.0	-
19	Calcium(mg/l)	601.2	1202.4	232.46	3.2	5.6	8.02	4.0	5.6	320.6	144.29	601.2	1923.8	-
20	Magnesium(mg/l)	850.5	1215.0	709.56	3.4	1.9	3.89	2.916	2.9	97.2	403.38	1653.90	1166.4	-
21	Sulphate(mg/l)	1720.4	1438.9	1039.58	14.6	7.2	5.30	1.895	12.3	147.1	85.58	896.0	1201.3	-
22	Sodium(mg/l)	1500.0	2625.0	2625.0	22.0	7.1	6.9	66.8	87.4	2640.0	2850.0	2425.0	9750.0	-
23	Total Dissolved Solids(mg/l)	21164.0	21696.0	21272.0	58.0	51.0	905.0	68.0	199.0	4934.0	11345.0	15702.0	20358.0	-
24	Total Fixed Solids(mg/l)	8439.0	7376.0	12763.0	20.0	18.0	543.0	40.0	127.0	1677.0	6806.0	9387.0	12214.0	-
25	Total Suspended Solids(mg/l)	13.0	10.0	25.0	50.0	49.0	8.0	8.0	11.0	8.0	5.0	13.0	11.0	-
26	Phosphate(mg/l)	BDL	0.07	BDL	BDL	0.03	BDL	BDL	BDL	BDL	BDL	BDL	0.03	-
27	Boron(mg/l)	0.7	0.7	0.814	BDL	0.014	0.013	BDL	BDL	0.729	0.93904	0.573	1.2	-
28	Potassium(mg/l)	675.0	1902.0	1902.0	4.4	4.1	3.1	33.4	44.7	110.0	920.0	1212.5	4075.0	-
29	Flouride(mg/l)	0.7	0.9	0.829	BDL	0.3	0.4	BDL	BDL	0.7	0.2	0.939	BDL	-
30	SAR	55.69	75.50	120.95	12.10	3.7	2.8	35.92	42.4	182.66	172.23	108.2	248.04	-
31	Percent Sodium (%)	-	-	-	79.98	59.7	45.64	93.54	93.95	86.8	87.32	78.36	81.73	-

DOWNSTREAM OF RIVER MANDOVI, M/S VEDANTA PVT. LTD.													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	29	29	29	27	28	29	28	30	30	30	30	30	-
2	Dissolved Oxygen(mg/l)	5.6	5.9	5.0	7.8	7.3	7.7	8.2	6.4	5.6	4.6	6.7	6.0	4 mg/l or more
3	pH	7.26	7.38	7.78	7.69	7.69	6.69	6.57	6.77	7.09	6.87	7.30	7.35	6.5 - 8.5
4	Conductivity(µs/cm)	35080.0	38010.0	3202.0	83.55	92.28	1375.00	145.1	350.8	8932.0	19680.0	27940.0	30480.0	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.3	0.2	BDL	0.2	0.1	BDL	0.168	0.21	0.2	0.4	BDL	0.13	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.037	0.03	0.013	BDL	0.006	BDL	0.006	0.006	0.006	0.064	0.037	0.032	-
8	Total Coliform(MPN/100 ml)	260	240	170	2100	1400	1700	1400	920	3300	2400	1700	1600	-
9	Fecal Coliform(MPN/100 ml)	170	130	78	1300	790	1100	780	680	1300	1300	1100	540	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	78	49	13	110	79	92	140	200	68	70	92	430	-
11	Turbidity(NTU)	2.34	2.62	4.67	23.0	22.80	5.25	18.32	8.18	4.33	2.31	4.98	5.63	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	88.0	112.00	82.00	20.0	22.0	22.0	24.0	26.0	40.0	54.0	72.0	76.0	-
14	Chlorides(mg/l)	11621	16244.96	11692.11	14.0	18.0	32.99	23.49	34.5	3448.9	6448.0	10096.9	14995.3	-
15	COD(mg/l)	-	-	-	10.0	6.0	4.0	6.0	8.0	-	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	0.6	2.20	0.56	1.12	1.68	0.56	1.12	1.12	1.68	0.56	1.12	1.68	-
17	Ammonia (mg/l)	BDL	0.1	BDL	BDL	0.48	0.1	0.138	0.11	BDL	BDL	BDL	BDL	-
18	Total Hardness(mg/l)	5000.0	8000.0	3620.0	22.0	24.0	32.0	28.0	30.0	1200.0	2140.0	3040.0	7000.0	-
19	Calcium(mg/l)	400.8	1202.4	248.5	2.4	6.4	6.41	5.61	6.4	160.3	168.34	609.22	2324.6	-
20	Magnesium(mg/l)	972.0	1215.0	729.0	3.9	1.9	3.89	3.402	3.4	194.4	417.96	1514.40	291.6	-
21	Sulphate(mg/l)	2448.0	979.10	1208.08	8.9	13.4	5.63	2.458	12.7	152.8	84.76	2078.70	1216.1	-

22	Sodium(mg/l)	1525.0	2500.0	2500.0	11.5	7.4	7.9	77.4	88.5	2410.0	2820.0	2650.0	8600.0	-
23	Total Dissolved Solids(mg/l)	21644.0	21563.0	2145.0	50.0	49.0	880.0	81.0	210.0	4923.0	11389.0	15646.0	19507.0	-
24	Total Fixed Solids(mg/l)	8656.0	7331.0	1287.0	18.0	17.0	528.0	48.0	142.0	1673.0	6833.0	9421.0	11704.0	-
25	Total Suspended Solids(mg/l)	11.0	10.0	16.0	52.0	47.0	9.0	9.0	11.0	9.0	12.0	10.0	10.0	-
26	Phosphate(mg/l)	0.03	0.02	BDL	0.02	0.03	BDL	BDL	0.02	BDL	BDL	0.02	0.02	-
27	Boron(mg/l)	0.5	0.2	0.91	BDL	0.015	0.011	BDL	BDL	0.669	0.94304	0.561	1.1	-
28	Potassium(mg/l)	1200.0	1898.0	1898.0	6.9	4.1	3.4	38.7	46.3	110.0	990.0	1325.0	4050.0	-
29	Flouride(mg/l)	0.8	0.9	0.902	BDL	BDL	0.3	BDL	0.36	0.8	BDL	BDL	BDL	-
30	SAR	58.21	71.910	113.08	6.5	3.6	3.5	36.46	39.98	180.96	164.70	119.8	237.78	-
31	Percent Sodium (%)	-	-	-	74.52	57.9	52.3	92.80	93.22	87.7	86.66	80.24	82.86	-
ST.INEZ CREEK UPSTREAM														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class B river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	29	27	29	27	28	29	30	29	29	**sample not collected as it was dry**	-
2	Dissolved Oxygen(mg/l)			BDL	4.1	BDL	BDL	BDL	1.8	0.1	BDL	1.0		5.0 mg/l or more
3	pH			6.74	7.76	7.58	6.37	6.56	6.88	6.94	7.30	7.56		6.5-8.5
4	Conductivity(µs/cm)			488.8	169.2	176.70	237.7	303.70	310.7	403.2	374.6	534.7		-
5	BOD(mg/l)			5.1	BDL	5.7	6.0	5.7	5.4	5.6	5.60	5.6		3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)			BDL	0.5	BDL	0.688	BDL	BDL	0.2	0.1	1.4		-
7	Nitrite Nitrogen as NO_2-N mg/l			0.007	0.029	0.03	BDL	BDL	BDL	BDL	BDL	0.018		-
8	Total Coliform(MPN/100 ml)			13000	11000	28000	22000	13000	11000	17000	17000	22000		-
9	Fecal Coliform(MPN/100 ml)			4900	7000	22000	17000	7900	7000	13000	7900	11000		500 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)			200	210	700	460	390	1100	780	940	700		100 or less MPN/100 ml

11	Turbidity(NTU)			13.2	3.19	6.53	13.80	16.56	12.37	32.10	65.90	102.0	-
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)			58.0	44.0	62.0	100.0	82.0	96.0	82.0	136.0	152.0	-
14	Chlorides(mg/l)			68.50	16.5	15.0	20.0	138.5	27.99	61.48	36.98	60.0	-
15	COD(mg/l)			16.0	10.0	18.0	67.48	18.0	18.0	20.0	20.0	20.0	-
16	Total Kjeldahl Nitrogen(mg/l)			1.68	1.68	1.12	1.12	1.68	2.24	1.12	3.92	2.2	-
17	Ammonia (mg/l)			0.2	0.13	0.13	0.054	0.16	0.14	0.31	0.61	0.17	-
18	Total Hardness(mg/l)			98.0	56.0	76.0	74.0	88.0	104.0	144.0	114.0	164.0	-
19	Calcium(mg/l)			21.60	17.6	18.4	24.05	26.5	26.45	22.4	28.9	44.9	-
20	Magnesium(mg/l)			10.70	2.90	7.3	3.402	5.3	10.69	21.4	10.2	12.6	-
21	Sulphate(mg/l)			57.90	4.60	13.9	7.48	15.6	9.84	8.6	10.9	30.0	-
22	Sodium(mg/l)			39.0	30.5	30.1	56.8	32.2	12.1	33.1	13.4	47.9	-
23	Total Dissolved Solids(mg/l)			293.0	101.0	113.0	133.0	1944.0	198.0	258.0	229.0	350.0	-
24	Total Fixed Solids(mg/l)			182.0	34.0	68.0	79.0	1166.0	118.0	103.0	94.0	116.0	-
25	Total Suspended Solids(mg/l)			23.0	8.0	11.0	19.0	23.0	13.0	30.0	22.0	35.0	-
26	Phosphate(mg/l)			0.40	0.05	0.19	0.165	0.43	0.19	0.31	0.04	BDL	-
27	Boron(mg/l)			0.7	1.2	0.015	0.029	0.010	BDL	BDL	0.0017	0.2	-
28	Potassium(mg/l)			15.3	10.1	11.3	20.3	11.5	9.8	25.1	9.7	11.0	-
29	Flouride(mg/l)			0.50	0.2	BDL	0.912	0.3	BDL	0.3	0.5	BDL	-
30	SAR			9.70	9.5	8.4	15.33	8.08	2.81	7.07	3.0	893.1	-
31	Percent Sodium (%)			-	66.4	61.7	73.74	57.92	37.09	57.0	37.2	98.8	-

ST.INEZ CREEK DOWNSTREAM													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class B river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	31	29	27	28	28	28	29	30	29	29	30	-
2	Dissolved Oxygen(mg/l)	6.7	BDL	BDL	2.5	1.0	2.5	2.1	2.0	0.8	BDL	3.0	1.6	5.0 mg/l or more
3	pH	7.84	7.35	7.15	7.88	8.08	7.09	6.81	7.05	7.22	7.71	7.37	7.24	6.5-8.5
4	Conductivity(µs/cm)	59100.0	3998.0	1242.0	305.9	395.3	754.8	16310.0	20440.0	20450.0	16230.0	28570.0	11150.0	-
5	BOD(mg/l)	BDL	5.8	6.6	5.7	6.0	5.4	6.0	6.4	6.4	6.72	4.8	6.0	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.235	0.2	3.3	0.3	0.1	0.300	0.3	0.20	0.3	0.4	0.4	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	BDL	BDL	0.124	0.039	0.103	0.201	0.027	0.03	0.008	0.011	0.007	0.018	-
8	Total Coliform(MPN/100 ml)	35000	22000	24000	24000	22000	28000	35000	21000	92000	54000	35000	1600	-
9	Fecal Coliform(MPN/100 ml)	13000	11000	7900	13000	13000	13000	17000	14000	24000	24000	13000	540	500 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	260	270	220	330	790	490	790	1400	490	790	940	350	100 or less MPN/100 ml
11	Turbidity(NTU)	6.89	7.34	14.00	9.02	8.30	7.40	12.31	14.02	6.33	12.12	6.23	10.49	-
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	124.0	108.0	84.0	66.0	108.0	158.0	72.0	88.0	116.0	200.0	96.0	160.0	-
14	Chlorides(mg/l)	15995.04	1624.5	249.9	34	41.0	18.0	1799.4	1899.41	7297.7	1919.50	16994.70	4623.6	-
15	COD(mg/l)	-	16	22	18	20.0	68.98	20.0	20.0	20.0	24.0	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)	2.2	3.9	2.8	1.68	1.68	0.56	1.68	0.56	1.12	5.04	2.8	1.68	-
17	Ammonia (mg/l)	0.438	1.15	2.67	0.09	0.33	0.054	0.99	2.20	2.15	2.91	1.3	1.253	-
18	Total Hardness(mg/l)	8400	2000	222	96	116.0	60.0	2080.0	3800.0	118.0	2200.0	4400.0	4000.0	-
19	Calcium(mg/l)	400.8	480.96	53.7	28.9	33.7	12.83	192.4	1042.0	9.6	320.6	561.1	240.5	-
20	Magnesium(mg/l)	1798.2	194.4	21.4	5.8	7.8	6.804	388.8	291.6	22.8	340.2	729.0	826.2	-

21	Sulphate(mg/l)	2380.44	89.01	87.9	12.7	26.3	7.54	563.8	3125.65	2642.0	1892.0	1274.9	361.1	-
22	Sodium(mg/l)	5225.0	6725.0	198.0	56.2	54.1	98.2	540.0	4610.0	957.8	4621.0	3320.0	4275.0	-
23	Total Dissolved Solids(mg/l)	37824.0	2498.0	770.0	178.0	253.0	422.0	10438.0	13081.0	13088.0	9941.0	18921.0	624.0	-
24	Total Fixed Solids(mg/l)	22694.0	1499.0	492.0	62.0	152.0	253.0	6263.0	7848.0	5235.0	4100.0	6304.0	374.0	-
25	Total Suspended Solids(mg/l)	3.0	9.0	28.0	15.0	12.0	22.0	12.0	14.0	12.0	14.0	14.0	18.0	-
26	Phosphate(mg/l)	0.094	0.71	0.6	0.07	0.26	0.391	0.19	0.47	1.09	1.24	0.1	0.69	-
27	Boron(mg/l)	1.885	1.2	0.58	BDL	0.036	0.049	0.082	0.94	0.466	1.1588	0.3	1.968	-
28	Potassium(mg/l)	1250.0	2475.0	89.0	14.0	13.5	39.5	130.6	1580.0	423.3	1527.0	200.0	4050.0	-
29	Flouride(mg/l)	1.402	0.5	0.7	BDL	0.2	0.293	0.7	BDL	0.4	0.6	1.0	0.67	-
30	SAR	157.58	365.97	32.31	13.5	11.9	31.34	31.68	178.52	237.75	254.2	130.7	185.11	-
31	Percent Sodium (%)	-	-	-	66.90	62.0	87.52	53.57	82.27	97.7	90.3	73.2	88.64	-

OLVA CREEK UPSTREAM

Sr. No	Parameters	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Limit for class A as per CPCB classification based on designated best use
1	Temperature°C	30	29	28	29	28	27	29	30	28	30	29	30	-
2	Dissolved Oxygen(mg/l)	6.1	7.8	4.5	1.2	4.5	5.2	4.2	6.0	7.2	4.2	3.6	5.6	4 mg/l or more
3	pH	7.63	7.89	6.96	6.67	8.17	7.64	7.6	7.25	7.43	7.69	8.15	7.49	6.5 - 8.5
4	Conductivity(µs/cm)	10860.0	49500	22730.0	530.9	209.2	88.0	299	363.8	411.2	13840.0	3736.0	1098.0	-
5	BOD(mg/l)	BDL	BDL	BDL	4.0	1.7	BDL	BDL	BDL	BDL	BDL	5.0	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	BDL	BDL	0.9	0.200	BDL	0.2	BDL	BDL	0.7	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.006	0.006	0.019	0.03	0.009	0.005	0.012	0.005	0.017	0.034	0.010	BDL	-
8	Total Coliform(MPN/100ml)	9400	7900	94×10^2	780	$94x10^2$	$110x10^2$	13000	14000	3100	3300	13000	920	-
9	Fecal Coliform(MPN/100ml)	4900	3300	70×10^2	450	$49x10^2$	$79x10^2$	7900	7000	2300	2100	4900	350	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	470	330	460	110	330	230	320	270	170	170	490	350	-

11	Turbidity(NTU)	4.37	9.28	21.2	19.7	3.53	5.98	9.4	9.39	7.27	6.25	5.9	5.05	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	90.0	150	122.0	72.0	34.0	60.0	56.0	54.0	46.0	86.0	100.0	98.0	-
14	Chlorides(mg/l)	3648.9	17244.7	8122.48	105.0	31.49	40.50	34.99	47.5	60.5	4598.6	1454.55	1499.5	-
15	COD(mg/l)	-	-	-	20.0	8	18.0	8.0	4.0	8.0	-	18.0	8.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	1.68	1.68	2.24	2.8	0.56	2.8	3.36	1.68	2.8	2.24	1.12	-
17	Ammonia (mg/l)	0.67	BDL	1.23	0.24	0.18	0.02	0.26	0.05	0.213	0.72	0.04	0.09	-
18	Total Hardness(mg/l)	1200.0	8200.0	1600.0	102	52.0	64.0	68.0	74.0	68.0	1460.0	484.0	800.0	-
19	Calcium(mg/l)	96.2	801.6	400.80	21.6	14.43	7.20	18.44	20.0	15.2	128.26	64.13	240.0	-
20	Magnesium(mg/l)	233.3	1506.6	145.8	11.2	3.9	11.2	5.35	5.8	7.69	277.02	78.73	48.6	-
21	Sulphate(mg/l)	199.6	2655.47	976.75	33.9	15.59	12.40	17.85	22.6	14.3	72.74	96.92	899.1	-
22	Sodium(mg/l)	850.0	7200.0	7200.0	1275.0	40.9	22.1	61.8	52.4	29.3	888.0	34.6	116.1	-
23	Total Dissolved Solids(mg/l)	6332.0	27720.0	13911.0	348.0	121.0	56.0	167.0	221.0	368.0	8675.0	2316.0	659.0	-
24	Total Fixed Solids(mg/l)	2143.0	16632.0	8350.0	116.0	74.0	24.0	101.0	143.0	112.0	5200.0	1389.0	264.0	-
25	Total Suspended Solids(mg/l)	14.0	20.0	29.0	35.0	11.0	11.0	29.0	11.0	8.0	6.0	7.0	9.0	-
26	Phosphate(mg/l)	0.07	0.055	0.27	0.29	0.08	0.09	0.07	0.17	0.18	0.08	0.03	BDL	-
27	Boron(mg/l)	0.7	0.709	1.0	0	0.0	BDL	0.014	0.046	BDL	0.07818	1.73	0.2	-
28	Potassium(mg/l)	90.0	6800.0	6800.0	475.0	23.1	15.2	42.2	34.7	16.7	224.0	19.8	13.4	-
29	Flouride(mg/l)	BDL	1.833	0.4	0.4	0.5	0.2	BDL	BDL	0.59	0.5	BDL	0.3	-
30	SAR	66.23	211.94	435.52	314.7	13.51	7.30	17.92	14.6	8.67	62.38	4.09	9.7	-
31	Percent Sodium (%)	-	-	-	98.2	77.74	67.00	81.38	77.1	66.7	73.3	27.58	30.94	-

COLVA CREEK DOWNSTREAM													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for SW II river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	30	29	28	29.0	28	27	29	30	28	30	29	30	-
2	Dissolved Oxygen(mg/l)	7.3	6.2	4.2	1.7	4.2	5.2	5.1	8.6	6.9	7.0	3.5	7.1	4 mg/l or more
3	pH	8.15	7.71	7.01	6.5	7.76	7.97	7.62	7.20	7.80	7.13	7.61	7.55	6.5 - 8.5
4	Conductivity(µs/cm)	10860.0	47650	22780.0	645.0	182.1	261.8	271	302.0	442.6	12260	4234.0	1073.0	-
5	BOD(mg/l)	BDL	BDL	BDL	3.2	1.9	BDL	BDL	BDL	BDL	BDL	5.4	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)	0.1	BDL	BDL	0.3	0.2	0.12	0.3	BDL	BDL	2.6	BDL	0.13	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.011	0.008	0.028	0.0	0.01	0.005	0.012	0.005	0.011	0.05	0.020	BDL	-
8	Total Coliform(MPN/100ml)	11000	130×10^2	140×10^2	$130X10^2$	$110x10^2$	$130X10_2$	17000	7900	7000	7000	54000	1600	-
9	Fecal Coliform(MPN/100ml)	7900	49×10^2	79×10^2	23X102	$49x10^2$	$33X10^2$	11000	2300	3300	3300	24000	430	100 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)	630	490	490	220.0	460	110	490	170	220	260	700	540	-
11	Turbidity(NTU)	6.69	9.32	16.47	19.5	4.39	14.1	11.7	11.47	8.93	7.5	4.14	5.29	30 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	94.0	154	126.0	76.0	46.0	5.8	54.0	54.0	56.0	88.0	116.0	100.0	-
14	Chlorides(mg/l)	3448.9	16245.0	8622.3	120.5	23.5	39.5	32.49	40.90	73.48	3698.85	1304.59	874.72	-
15	COD(mg/l)	-	-	-	20.0	4	6.0	6.0	10.0	6.0	-	18.0	10.0	-
16	Total Kjeldahl Nitrogen(mg/l)	1.1	0.07	1.12	1.7	2.24	1.121	2.24	3.92	2.24	2.24	1.12	1.12	-
17	Ammonia (mg/l)	0.72	0.065	1.0	0.3	0.1	0.2	0.11	0.10	0.168	0.840	0.06	0.06	-
18	Total Hardness(mg/l)	1220.0	6800.0	2400.0	102.0	46.0	36.0	70.0	74.0	76.0	1380.0	446.0	1400.0	-
19	Calcium(mg/l)	96.2	561.12	320.64	23.3	12.83	12.80	22.44	18.4	16.8	104.2	47.29	320.6	-
20	Magnesium(mg/l)	238.1	1312.2	388.8	10.7	3.4	BDL	3.4	6.8	8.5	272.16	79.70	194.4	-

21	Sulphate(mg/l)	187.1	2099.15	1485.12	38.8	14.22	12.40	17.41	19.5	14.06	63.96	83.38	1068.7	-
22	Sodium(mg/l)	850.0	7832.0	7832.0	74.3	48.3	38.1	72.3	65.7	33.8	719.0	24.8	118.8	-
23	Total Dissolved Solids(mg/l)	6257.0	26684.0	13617.0	413.0	107.0	167.0	144.0	181.0	325.0	7291.0	2794.0	644.0	-
24	Total Fixed Solids(mg/l)	2107.0	16010.0	8168.0	165.0	65.0	67.0	86.0	119.0	88.0	4371.0	1676.0	258.0	-
25	Total Suspended Solids(mg/l)	16.0	22.0	19.0	25.0	7.0	24.0	37.0	7.0	15.0	9.0	5.0	9.0	-
26	Phosphate(mg/l)	0.08	0.071	0.25	0.2	0.09	0.08	0.07	0.15	0.13	0.10	0.04	BDL	-
27	Boron(mg/l)	0.9	0.998	0.8	0.0	0.0	BDL	0.011	0.035	BDL	0.06878	1.83	BDL	-
28	Potassium(mg/l)	100.0	7011.0	7011.0	48.6	36.2	14.2	31.5	37.2	21.0	179.0	14.9	14.2	-
29	Flouride(mg/l)	BDL	1.061	0.5	0.4	BDL	1.3	0.4	0.78	1,135	0.7	BDL	BDL	-
30	SAR	65.74	255.91	444.03	18.0	16.96	14.50	20.11	18.5	9.6	52.4	3.11	7.4	-
31	Percent Sodium (%)	-	-	-	78.4	83.89	79.13	80.07	80.3	68.6	70.47	23.82	20.52	-
UPSTREAM OF BETHORA NALLAH														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class B river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	27	29	28	28	29	30	29	30	29	30	-
2	Dissolved Oxygen(mg/l)			4.4	5.1	5.3	4.9	4.1	3.5	3.0	5.6	BDL	7.8	5.0 mg/l or more
3	pH			5.77	5.96	6.98	5.84	6.03	6.0	6.0	6.0	6.03	7.77	6.5-8.5
4	Conductivity(µs/cm)			736	743.3	906.1	303.0	315	471.1	2418.0	6271	36900	6820.0	-
5	BOD(mg/l)			BDL	BDL	1	BDL	BDL	3.9	4.6	BDL	6.0	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)			2.143	0.1	0.4	0.95	0.79	0.2	0.50	1.90	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l			0.012	BDL	0.012	BDL	0.006	0.05	0.02	0.047	0.013	0.042	-
8	Total Coliform(MPN/100ml)			450	1700	4900	7000	2400	7900	9400	1400	54000	920	-
9	Fecal Coliform(MPN/100ml)			200	1100	2300	3300	790	4900	4600	1100	24000	540	500 or less MPN/100 ml

10	Fecal Streptococci (MPN/100ml)			130	210	330	490	210	490	700	460	1300	240	100 or less MPN/100 ml
11	Turbidity(NTU)			8.75	6.09	37.9	19.4	1.57	2.10	2.24	5.50	76.2	1.83	-
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)			22	22	18	32.0	26.0	32.0	34.0	24.0	116.0	80.0	-
14	Chlorides(mg/l)			849.74	200.4	549.8	59.98	67.0	112.0	724.78	2749.20	14995.4	2949.1	-
15	COD(mg/l)			4.0	10.0	16.0	8.0	14.0	18.0	18.0	-	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)			1.681	1.1	2.8	1.12	3.36	0.56	1.12	1.68	3.36	0.56	-
17	Ammonia (mg/l)			0.144	0.07	0.09	0.24	0.05	BDL	0.12	0.06	0.76	0.13	-
18	Total Hardness(mg/l)			190	198	298	92.0	86.0	128.0	70.0	1880.0	7000.0	9800	-
19	Calcium(mg/l)			56.11	68.9	31.3	16.83	24.8	38.5	24.05	721.4	1442.9	761.2	-
20	Magnesium(mg/l)			12.15	6.3	53.5	12.15	5.8	7.8	2.43	19.4	826.2	9.72	-
21	Sulphate(mg/l)			23.16	10.7	7.6	BDL	14.5	26.6	81.98	559.3	300.8	751.7	-
22	Sodium(mg/l)			4175.0	118.4	24.7	37.6	47.2	5.6	90.9	40.6	2375.0	2375.0	-
23	Total Dissolved Solids(mg/l)			471	476	582	193.0	208.0	301.0	1499.0	3910.0	20664.0	3819.0	-
24	Total Fixed Solids(mg/l)			282.0	190.0	94.0	115.0	69.0	181.0	899.0	1613.0	12398.0	2991.0	-
25	Total Suspended Solids(mg/l)			3.0	10.0	82.0	20.0	18.0	5.0	2.0	8.0	45.0	8.0	-
26	Phosphate(mg/l)			0.03	BDL	0.03	BDL	BDL	0.02	0.03	0.06	0.14	BDL	-
27	Boron(mg/l)			0.732	0.030	0.002	0.016	0.009	BDL	BDL	0.11	0.236	0.378	-
28	Potassium(mg/l)			2525.0	50.3	6.4	19.6	26.4	4.9	23.9	5.1	1187.5	1187.5	-
29	Flouride(mg/l)			BDL	0.4	0.4	BDL	BDL	0.4	BDL	0.7	1.58	0.335	-
30	SAR			714.63	19.3	380	5.35	12.1	1.16	24.98	2.1	70.51	120.95	-
31	Percent Sodium (%)			-	69.2	26.9	36.71	70.6	18.50	81.26	5.80	61.09	87.87	-

DOWNSTREAM OF BETHORA NALLAH													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit for Class B river as per CPCB classification based on designated best use of rivers**
1	Temperature°C	**sample was not collected as it was DRY**	**sample was not collected as it was DRY**	27	29	28	28	29	30	29	30	30	30	-
2	Dissolved Oxygen(mg/l)			6.1	6.5	5.3	4.8	4.5	3.1	4.8	1.6	6.9	7.7	5.0 mg/l or more
3	pH			7.29	6.54	7.62	6.52	6.59	6.25	6.78	7.01	6.96	6.95	6.5-8.5
4	Conductivity(µs/cm)			945.4	670.8	1221	412.0	443	546.2	1419.0	1544	4430.0	6730.0	-
5	BOD(mg/l)			BDL	BDL	1	BDL	BDL	4.0	BDL	4.8	2.0	BDL	3 mg/l or less
6	Nitrate Nitrogen as NO_3-N(mg/l)			3.2	0.7	0.6	1.21	1.3	0.5	1.52	6.6	BDL	BDL	-
7	Nitrite Nitrogen as NO_2-N mg/l			0.236	0.024	0.02	0.12	BDL	0.059	0.17	0.183	0.084	0.042	-
8	Total Coliform(MPN/100ml)			330×10^2	35000	22000	$350X10^2$	$350X10^2$	28000	$240x10^2$	2100	24000	540	-
9	Fecal Coliform(MPN/100ml)			130×10^2	22000	17000	$130X10^2$	$130X10^2$	17000	$79x10^2$	1700	7900	240	500 or less MPN/100 ml
10	Fecal Streptococci (MPN/100ml)			230	280	630	490	460	790	940	700	1100	120	100 or less MPN/100 ml
11	Turbidity(NTU)			4.49	3.75	18.9	2.59	1.59	2.64	3.28	4.8	1.70	1.90	-
12	Phenolphthalein Alkalinity(mg/l)			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)			64	38	32	50.0	36.0	54.0	54.0	72.0	76.0	92.0	-
14	Chlorides(mg/l)			1399.57	161.4	649.8	72.48	1.59	118.0	39.99	899.70	2199.3	3448.9	-
15	COD(mg/l)			8	8	6	8.0	72.0	20.0	8.0	20.0	-	-	-
16	Total Kjeldahl Nitrogen(mg/l)			1.68	1.7	2.24	1.12	2.8	1.68	0.56	3.36	2.80	1.12	-
17	Ammonia (mg/l)			0.97	0.3	0.27	0.38	0.5	0.29	0.28	0.09	0.14	BDL	-
18	Total Hardness(mg/l)			260	104	392	100.0	106.00	128.00	56.00	466.0	1280.0	2000.0	-
19	Calcium(mg/l)			75.4	34.5	71.3	21.64	39.3	38.5	13.63	136.3	256.5	681.4	-

20	Magnesium(mg/l)			17.5	4.4	52	11.18	1.9	7.8	5.35	30.7	155.5	72.9	-
21	Sulphate(mg/l)			20.25	30.8	11.3	10.64	17.6	26.9	44.58	116.4	29.4	707.5	-
22	Sodium(mg/l)			32.4	106	48	45.0	53.1	44.8	68.0	172.4	2630.0	2630.0	-
23	Total Dissolved Solids(mg/l)			605.0	429.0	799.0	263.0	17.6	350.0	908.0	959.0	2480.0	3768.0	-
24	Total Fixed Solids(mg/l)			363.0	172.0	266.0	157.0	100.0	210.0	544.0	398.0	1488.5	2260.0	-
25	Total Suspended Solids(mg/l)			15	6	40	2.0	275.0	6.0	3.0	7.0	5.0	7.0	-
26	Phosphate(mg/l)			0.02	0.1	0.04	BDL	15.0	0.04	0.02	0.03	0.03	0.03	-
27	Boron(mg/l)			0.66	0.01	0.016	0.017	0.016	0.101	BDL	0.0288	0.382	0.388	-
28	Potassium(mg/l)			6.3	61	29.6	23.1	28.6	13.9	21.7	41.5	1315.0	1315.0	-
29	Flouride(mg/l)			1.5	0.4	0.5	BDL	BDL	0.4	BDL	BDL	0.304	BDL	-
30	SAR			4.76	24.1	6.1	11.11	11.70	9.32	22.09	18.87	183.24	135.42	-
31	Percent Sodium (%)			-	81.1	38.6	67.48	66.5	55.93	65.44	56.2	90.54	83.87	-

BOREWELL IN KUNDAIM INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(μs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	28	4.0	6.64	433.5	BDL	0.17	BDL	2	<1.8	<1.8	5.78	BDL	124.0	10.50
Oct-24	26	0.4	6.26	375.8	4.0	0.2	BDL	<1.8	<1.8	<1.8	53.60	BDL	86.0	12.5

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium (mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	4	1.1	BDL	164	46.0	11.7	61.9	27.9	242.0	85.0	16.0	0.03	0.33	24.9	0.2	5.2	-
Oct-24	18.0	2.24	0.07	156.0	38.5	14.6	81.6	29.8	243.0	81.0	13.0	BDL	-	10.1	0.4	85.3	57.9

BOREWELL IN CORLIM INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(µs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform(MPN/100ml)	Fecal Coliform(MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	28	7	6.54	98.7	BDL	BDL	BDL	23	7.8	<1.8	1.1	BDL	22	11.5
Oct-24	26	7.5	5.82	71.4	BDL	1.0	BDL	2.0	<1.8	<1.8	1.5	BDL	12.0	12.0

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium(mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	6	0.6	1.50	16	4.8	BDL	BDL	22.3	59.0	24.0	6	BDL	BDL	16.6	BDL	13.12	-
Oct-24	6.0	0.56	BDL	22.0	4.01	2.9	2.25	22.0	41.0	25.0	6.0	BDL	-	9.2	0.3	11.84	81.87

BOREWELL IN PILERNE INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(µs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform(MPN/100ml)	Fecal Coliform(MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	28	5.0	6.63	453.2	BDL	BDL	0.1	<1.8	NIL	<1.8	1.48	BDL	106.0	12.23
Oct-24	28	2.3	7.09	341.6	3.5	BDL	BDL	7.8	4.5	<1.8	1.08	BDL	104.0	14.5

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium(mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	16.0	0.56	BDL	160	38.48	15.55	63.68	12.9	308.0	185.0	8.0	0.02	1.06	6.1	0.56	2.48	-
Oct-24	16.0	0.56	BDL	92.0	24.8	7.3	28.9	13.0	211.0	132.0	0.4	BDL	0.035	5.6	0.44	3.24	36.69

BOREWELL IN SANCOALE INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(µs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform(MPN/100ml)	Fecal Coliform(MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	29	8	6.5	23.94	BDL	1.71	BDL	350	130	70	BDL	BDL	72	17.99
Oct-24	28	5.4	6.15	344	BDL	2.1	BDL	240	79	33	BDL	BDL	30.0	40.49

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium(mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	8	0.56	BDL	78	16.03	9.2	BDL	49.7	148	89	11	0.03	1.13	36	BDL	13.98	-
Oct-24	6.0	2.24	0.34	62.0	18.44	3.9	36..21	19.6	209.0	124.0	3.0	BDL	0.005	11.7	BDL	5.86	58.35

BOREWELL IN VERNA INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(µs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform(MPN/100ml)	Fecal Coliform(MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	30	4.1	6.44	385.4	BDL	0.2	BDL	220	110	4.5	20.7	BDL	36	54
100ct-24	28	6.1	7.29	428	BDL	1.8	BDL	7.8	<1.8	<1.8	BDL	BDL	34.0	40.49

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium(mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	10	1.7	BDL	86.0	16.0	11.2	24.1	15.6	233.0	79.0	20.0	BDL	BDL	3.2	BDL	4.23	-
Oct-24	6.0	1.12	BDL	78.0	19.24	7.29	33.31	82.6	257.0	153.0	7.0	BDL	0.009	41.9	0.3	22.68	82.43

BOREWELL IN CUNCOLIM INDUSTRIAL ESTATE

| PARAMETERS | | |

BOREWELL IN BETHORA INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(µs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform(MPN/100ml)	Fecal Coliform(MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	31	4.1	5.58	7.73	BDL	BDL	2.11	<1.8	NIL	<1.8	BDL	BDL	8.0	27.4
Oct-24	29	6.1	5.9	110	BDL	1.53	BDL	<1.8	<1.8	<1.8	20.8	BDL	16.0	16.0

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium(mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	10.0	1.68	BDL	22	4.81	2.43	0.977	16.4	56.0	34.0	6.0	BDL	1.0	12.6	0.07	8.62	-
Oct-24	8.0	1.12	0.02	28.0	5.6	3.4	1.1	27.1	73.0	24.0	2.0	BDL	BDL	16.5	BDL	12.77	82.9

BOREWELL IN MADKAI INDUSTRIAL ESTATE

PARAMETERS	Temperature°C	Dissolved Oxygen(mg/l)	pH	Conductivity(µs/cm)	BOD(mg/l)	Nitrate Nitrogen as NO_3-N(mg/l)	Nitrite Nitrogen as NO_2-N mg/l	Total Coliform(MPN/100ml)	Fecal Coliform(MPN/100ml)	Fecal Streptococci MPN/100ml	Turbidity(NTU)	Phenolphthalein Alkalinity(mg/l)	Total Alkalinity(mg/l)	Chlorides(mg/l)
Apr-24	30	4.3	5.91	97.74	BDL	BDL	1.68	<1.8	NIL	<1.8	BDL	BDL	18.0	18.1
Oct-24	29	6.5	6.2	105	BDL	1.27	BDL	<1.8	<1.8	<1.8	0.18	BDL	26.0	16.5

PARAMETERS	COD(mg/l)	Total Kjeldahl Nitrogen(mg/l)	Ammonia (mg/l)	Total Hardness(mg/l)	Calcium(mg/l)	Magnesium(mg/l)	Sulphate(mg/l)	Sodium(mg/l)	Total Dissolved Solids(mg/l)	Total Fixed Solids(mg/l)	Total Suspended Solids(mg/l)	Phosphate(mg/l)	Boron(mg/l)	Potassium(mg/l)	Flouride(mg/l)	SAR	Percent Sodium (%)
Apr-24	8.0	1.12	BDL	24	4.81	2.91	1.18	4.7	59.0	35.0	4.0	BDL	1.91	1.8	0.19	2.39	-
Oct-24	6.0	1.12	0.05	24.0	5.6	2.4	0.8	25.6	70.0	23.0	3.0	BDL	0.011	14.7	0.3	22.77	83.4

SALMONA SPRING													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Permissible Limits**
1	Temperature°C	27	29	29	31	27	26	27	32	28	29	28	29	-
2	Dissolved Oxygen(mg/l)	8.1	7.3	5.7	6.8	6.6	7.5	7.0	7.5	7.0	7.8	8.2	6.5	
3	pH	6.6	6.12	5.52	5.63	6.81	7.20	5.98	6.09	5.96	6.29	6.74	6.22	6.5-8.5
4	Conductivity(µs/cm)	49.25	75.20	90.91	112.2	96.36	115.3	123.8	109.7	92.75	109.3	70.30	64.85	-
5	BOD(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
6	Nitrate Nitrogen as NO_3-N(mg/l)	BDL	0.2	3.076	2.0	1.70	4.11	2.0	0.2	2.2	BDL	BDL	0.9	-
7	Nitrite Nitrogen as NO_2-N mg/l	0.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.005	BDL	-
8	Total Coliform(MPN/100ml)	920	350	230	920	240	540	680	490	460	350	240	350	-
9	Fecal Coliform(MPN/100ml)	540	280	130	280	130	240	450	230	330	240	130	130	-

10	Fecal Streptococci (MPN/100ml)	170	140	92	110	79	130	230	130	170	140	110	94	-
11	Turbidity(NTU)	2.68	5.50	0.93	1.36	1.02	1.01	BDL	1.17	1.36	0.92	2.0	1.30	1 NTU
12	Phenolphthalein Alkalinity(mg/l)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	-
13	Total Alkalinity(mg/l)	10.0	20.0	32.0	12.0	16.0	16.0	10.0	16.0	18.0	20.0	16.0	8.0	200 mg/l
14	Chlorides(mg/l)	8.80	14.50	20.00	21.50	16.5	192.94	17.0	18.99	18.5	19.0	21.99	17.0	250 mg/l
15	COD(mg/l)	4.0	6.0	4.0	2.0	4.0	6.0	4.0	4.0	4.0	6.0	4.0	4.0	-
16	Total Kjeldahl Nitrogen(mg/l)	0.56	2.80	2.24	1.1	0.56	1.68	0.56	0.56	0.56	0.56	0.56	3.90	-
17	Ammonia (mg/l)	BDL	0.04	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5 mg/l
18	Total Hardness(mg/l)	16.0	18.0	50.0	42.0	18.0	42.0	22.0	20.0	20.0	20.0	22.0	26.0	200 mg/l
19	Calcium(mg/l)	2.4	4.0	16.830	3.2	3.2	5.61	4.0	5.61	4.8	6.4	5.61	4.8	75 mg/l
20	Magnesium(mg/l)	2.43	1.9	1.944	8.3	2.43	6.80	2.9	BDL	1.9	1.0	7.97	3.4	30 mg/l
21	Sulphate(mg/l)	1.06	4.1	2.142	1.6	BDL	BDL	2.2	2.43	2.3	8.7	3.48	7.9	200 mg/l
22	Sodium(mg/l)	3.0	4.2	4.2	10.1	11.5	18.2	11.3	11.3	42.0	22.4	12.8	40.7	-
23	Total Dissolved Solids(mg/l)	33.0	48.0	56.0	73.0	56.0	65.0	78.0	65.0	59.0	59.0	39.0	42.0	500 mg/l
24	Total Fixed Solids(mg/l)	20.0	29.0	33.0	24.0	40.0	39.0	50.0	41.0	35.0	20.0	23.0	13.0	-
25	Total Suspended Solids(mg/l)	14.0	10.0	2.0	10.0	3.0	2.0	3.0	6.0	3.0	3.0	4.0	6.0	-
26	Phosphate(mg/l)	BDL	0.03	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02	0.02	BDL	-
27	Boron(mg/l)	1.12	BDL	0.67	0.03	0.005	0.015	0.009	BDL	BDL	0.00248	0.354	0.7	-
28	Potassium(mg/l)	1.3	1.5	1.5	5.2	5.3	9.1	4.4	4.1	2.5	4.1	10.3	2.2	-
29	Flouride(mg/l)	BDL	0.3	BDL	BDL	BDL	BDL	0.27	0.2	0.2	BDL	0.411	BDL	1 mg/l
30	SAR	1.93	2.434	1.37	4.2	6.85	7.31	6.08	6.01	22.86	11.7	6.59	20.09	-
31	Percent Sodium (%)	-	-	-	57.2	74.90	68.75	69.47	68.54	86.83	78.20	75.36	83.9	-

INLET STP TONCA-PANAJI													
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit**
1	Temp (°C)	-	-	-	-	29	-	-	-	-	-	-	-	-
2	pH	6.79	6.42	7.32	7.8	7.75	6.82	6.64	6.88	6.97	6.89	6.68	6.57	-
3	BOD(mg/l)	362.5	383.3	74.0	386.0	104.1	84.0	260.0	173.9	301.2	400.0	311.0	269.7	-
4	Total Coliform(MPN/ 100ml)	3500000	350× 10^5	240 × 10^5	7900000	2800000	220000 00	240000 00	5400000	4900000	3300000	470000	1600	-
5	Fecal Coliform(MPN/ 100ml)	2400000	170× 10^5	130 × 10^5	3300000	1700000	130000 00	130000 00	3500000	2300000	2300000	340000	540	-
6	Fecal Streptococci(MPN/100ml)	-	220× 10^4	70 × 10^4	170000	1300000	790000	110000	2800000	920	700	780	210	-
7	E.coli	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	-
8	COD(mg/l)	620.0	880.0	160.0	730.0	210.0	200.0	480.0	720.0	600.0	840.0	680.0	560.0	-
9	Ammonia (mg/l)	-	-	-	-	-	18.34	46.2	10.99	43.29	4.98	5.2	1.74	-
10	Total Suspended Solids(mg/l)	310.0	260.0	44.0	1545.0	160.0	310.0	225.0	269.0	240.0	342.0	256.0	740.0	-
11	Phosphate(mg/l)	-	-	-	-	-	1.067	10.6	32.93	0.14	6.21	14.096	2.4	-
12	Oil & Grease (mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
13	MLSS (mg/l)	490.0	260.0	195.0	2335.0	160.0	310.0	1120.0	207.0	234.0	410.0	225..0	1100.0	-
14	MLVSS (mg/l)	400.0	150.0	113.0	1680.0	100.0	160.0	620.0	3..0	144..0	300.0	12.0	574.0	
15	Residual Chlorine (mg/l)	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Boron (mg/l)	-	-	-	-	-	-	0.031	-	-	-	-	-	-
OUTLET STP TONCA -PANAJI														
Sr. No	**Parameters**	**Apr-24**	**May-24**	**Jun-24**	**Jul-24**	**Aug-24**	**Sep-24**	**Oct-24**	**Nov-24**	**Dec-24**	**Jan-25**	**Feb-25**	**Mar-25**	**Limit**
1	Temp (°C)	-	-	-	-	29	-	-	-	-	-	-	-	-
2	pH	7.23	7.39	7.48	8.5	8.03	7.23	6.92	7.36	7.27	7.56	6.99	7.09	5.5-9.0
3	BOD(mg/l)	8.9	7.2	8	7.2	7.2	7.2	7.6	5.6	7.2	8.0	7.2	6.8	10.0
4	Total Coliform(MPN/ 100ml)	350	540	350	540	920	920	920	140	540	920	<1.8	70	-

5	Fecal Coliform(MPN/ 100ml)	170	350	130	240	350	240	540	79	240	540	<1.8	48	100 or less MPN/100ml
6	Fecal Streptococci(MPN/100ml)	-	79	94	110	130	170	240	49	170	350	<1.8	84	-
7	E.coli	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT	ABSENT	PRESENT	-
8	COD(mg/l)	30.0	20	20	20	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	50.0
9	Ammonia (mg/l)	-	-	-	-	-	3.54	2.3	2.07	2.52	0.08	BDL	0.12	5.0
10	Total Suspended Solids(mg/l)	8.0	7	9	5	3.0	13.0	9.0	7.0	10.0	6.0	7.0	6.0	20.0
11	Phosphate(mg/l)	-	-	-	-	-	BDL	0.13	0.27	-	0.07	0.1	0.20	-
12	Oil & Grease (mg/l)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.0
13	MLSS (mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Residual Chlorine (mg/l)	1.77	1.77	0.8	0.35	1.42	2.12	6.2	1.06	BDL	BDL	1.06	5.5	1.0
15	Boron (mg/l)	-	-	-	-	-	-	0.007	-	-	-	-	-	-

ANNEXURE-VIII

VEDANTA, AMONA GOA - COMPILED DATA OF AAQM STATION

Station 1: Near Shree Mahalaxmi Ravalnath Temple City: Amona							
Duration:- May/June-2024							
Sr. No	Parameters	Time Weighted Average (TWA) 24-Hr	24-Hr	24-Hr	24-Hr	AQI	AIR QLTY
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2		
1	17-05-2024	45	11	5	5	**45**	Good
2	19-05-2024	43	10	6	5	**43**	Good
3	21-05-2024	43	10	5	5	**43**	Good
4	23-05-2024	40	9	5	5	**40**	Good
5	25-05-2024	43	9	6	5	**43**	Good
6	27-05-2024	50	12	7	5	**50**	Satisfactory
7	29-05-2024	55	14	9	10	**55**	Satisfactory
8	31-05-2024	57	16	10	11	**57**	Satisfactory
9	02-06-2024	53	14	7	9	**53**	Satisfactory
10	04-06-2024	57	12	6	9	**57**	Satisfactory
11	06-06-2024	55	11	7	13	**55**	Satisfactory
12	08-06-2024	52	9	6	11	**52**	Satisfactory
13	10-06-2024	55	13	7	14	**55**	Satisfactory
14	12-06-2024	52	10	4	13	**52**	Satisfactory
15	14-06-2024	48	12	7	12	**48**	Good

Station 2: Shree ShantadurgaAmriteshwar Temple City: Amona							
Duration:-May/June-2024							
Sr.No	Parameters	Time Weighted Average (TWA) 24-Hr	24-Hr	24-Hr	24-Hr	AQI	AIR QLTY
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2		
1	17-05-2024	40	11	2	5	**40**	Good
2	19-05-2024	39	10	5	5	**39**	Good
3	21-05-2024	38	10	5	5	**38**	Good

4	23-05-2024	37	7	2	5	**37**	Good
5	25-05-2024	39	8	5	5	**39**	Good
6	27-05-2024	44	11	6	5	**44**	Good
7	29-05-2024	49	12	7	5	**49**	Good
8	31-05-2024	51	13	8	5	**51**	Satisfactory
9	02-06-2024	45	11	7	5	**45**	Good
10	04-06-2024	47	9	7	5	**47**	Good
11	06-06-2024	44	7	6	5	**44**	Good
12	08-06-2024	43	6	7	10	**43**	Good
13	10-06-2024	45	10	9	13	**45**	Good
14	12-06-2024	43	8	7	11	**43**	Good
15	14-06-2024	43	10	9	9	**43**	Good

Station 3: Govt. High School, Betalwada						**City: Amona**	
Duration:-May/June-2024							
Sr.No		**Time Weighted Average (TWA)**				**AQI**	**AIR QLTY**
	Parameters	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					
	Date	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**		
1	17-05-2024	51	13	7	5	**51**	Satisfactory
2	19-05-2024	49	12	6	5	**49**	Good
3	21-05-2024	48	11	6	5	**48**	Good
4	23-05-2024	44	8	5	5	**44**	Good
5	25-05-2024	49	10	9	5	**49**	Good
6	27-05-2024	56	13	12	9	**56**	Satisfactory
7	29-05-2024	57	16	9	12	**57**	Satisfactory
8	31-05-2024	60	17	11	13	**60**	Satisfactory
9	02-06-2024	56	15	8	5	**56**	Satisfactory
10	04-06-2024	52	12	7	11	**52**	Satisfactory
11	06-06-2024	48	11	5	14	**48**	Good
12	08-06-2024	45	10	9	10	**45**	Good
13	10-06-2024	47	14	10	14	**47**	Good
14	12-06-2024	45	12	8	12	**45**	Good
15	14-06-2024	50	14	9	13	**50**	Good

Station 4: Govt. Primary School, Kharwada					City: Amona		
Duration:-May/June-2024							
Sr.No	Parameters	Time Weighted Average (TWA)				AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr		
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2		
1	17-05-2024	43	11	5	5	**43**	Good
2	19-05-2024	42	9	6	5	**42**	Good
3	21-05-2024	41	8	2	5	**41**	Good
4	23-05-2024	37	6	5	5	**37**	Good
5	25-05-2024	42	9	6	5	**42**	Good
6	27-05-2024	44	12	7	5	**44**	Good
7	29-05-2024	51	14	9	5	**51**	Satisfactory
8	31-05-2024	52	15	10	5	**52**	Satisfactory
9	02-06-2024	48	12	7	5	**48**	Good
10	04-06-2024	52	10	6	5	**52**	Satisfactory
11	06-06-2024	49	9	6	12	**49**	Good
12	08-06-2024	46	7	7	9	**46**	Good
13	10-06-2024	54	10	8	13	**54**	Satisfactory
14	12-06-2024	52	9	6	9	**52**	Satisfactory
15	14-06-2024	50	14	7	13	**50**	Satisfactory

Station 5: Shree Betal Temple, Navelim					City: Amona		
Duration:-May/June-2024							
Sr.No	Parameters	Time Weighted Average (TWA)				AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr		
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2		
1	17-05-2024	57	18	10	5	**57**	Satisfactory
2	19-05-2024	53	17	7	5	**53**	Satisfactory
3	21-05-2024	52	16	8	5	**52**	Satisfactory
4	23-05-2024	49	13	7	5	**49**	Good
5	25-05-2024	55	15	8	5	**55**	Satisfactory

6	27-05-2024	51	12	12	16	**51**	Satisfactory
7	29-05-2024	52	15	10	13	**52**	Satisfactory
8	31-05-2024	58	16	11	10	**58**	Satisfactory
9	02-06-2024	51	13	10	5	**51**	Satisfactory
10	04-06-2024	55	10	7	5	**55**	Satisfactory
11	06-06-2024	51	11	9	10	**51**	Satisfactory
12	08-06-2024	50	10	7	5	**50**	Good
13	10-06-2024	52	14	10	12	**52**	Satisfactory
14	12-06-2024	50	13	8	10	**50**	Good
15	14-06-2024	48	12	10	12	**48**	Good

Station 6: Shree Rampurush Temple, Betki				**City: Amona**			
Duration:- May-2024 (7 Days)							
Sr.No		**Time Weighted Average (TWA)**				**AQI**	**AIR QLTY**
	Parameters	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
		Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)					
	Date	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**		
1	17-05-2024	40	10	2	5	**40**	Good
2	19-05-2024	39	9	6	5	**39**	Good
3	21-05-2024	37	9	5	5	**37**	Good
4	23-05-2024	33	7	2	5	**33**	Good
5	25-05-2024	37	8	5	5	**37**	Good
6	27-05-2024	41	10	7	5	**41**	Good
7	29-05-2024	43	12	9	5	**43**	Good
8	31-05-2024	46	11	7	5	**46**	Good
9	02-06-2024	43	9	6	5	**43**	Good
10	04-06-2024	41	8	9	5	**41**	Good
11	06-06-2024	44	9	7	5	**44**	Good
12	08-06-2024	41	7	6	5	**41**	Good
13	10-06-2024	44	10	7	9	**44**	Good
14	12-06-2024	42	9	6	5	**42**	Good
15	14-06-2024	41	9	5	5	**41**	Good

ANNEXURE-IX

Goa Carbon - Compiled Data of AAQM station monitored by Choksi Laboratories Ltd, an MoEF&CC approved Laboratory

Station: location 1 Near Furnace Oil Tank				City :St. Jose De Areal				
Duration:-March - 2025								
Sr. No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)						
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO		
1	06-03-2025	108	49	15	23	1.72	**105**	Moderate
2	10-03-2025	109	52	16	21	1.62	**106**	Moderate
3	13-03-2025	115	53	15	24	1.53	**110**	Moderate
4	17-03-2025	105	46	14	22	1.67	**103**	Moderate

Station: Location 2 Near Raw Material Storage yard of M/s Goa Carbon Ltd., West side				City :St. Jose De Areal				
Duration:-March - 2025								
Sr.No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)						
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO		
1	06-03-2025	106	46	15	21	1.53	**104**	Moderate
2	10-03-2025	98	41	14	19	1.67	**98**	Satisfactory
3	13-03-2025	97	43	14	18	1.42	**97**	Satisfactory
4	17-03-2025	102	45	15	20	1.3	**102**	Moderate

Station: Location 3 Open terrace, residence of Mr. Felix Pereira, East side City: St. Jose De Areal								
Duration:-March - 2025								
Sr. No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)						
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO		
1	06-03-2025	73	34	9	13	1.15	**73**	Satisfactory
2	10-03-2025	67	32	8	13	1.21	**67**	Satisfactory
3	13-03-2025	79	37	9	13	1.06	**79**	Satisfactory
4	17-03-2025	66	33	9	14	1.02	**66**	Satisfactory

Station: location 4 Near Village Panchayat City :St. Jose De Areal								
Duration:-March - 2025								
Sr. No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)						
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO		
1	06-03-2025	69	34	9	12	1.24	**69**	Satisfactory
2	10-03-2025	63	32	9	11	1.06	**63**	Satisfactory
3	13-03-2025	71	35	8	13	1.35	**71**	Satisfactory
4	17-03-2025	62	30	9	13	1.17	**62**	Satisfactory

Station: location 5 :At the residence of Mr. Fredelis Freddy Travasso .Near Bethany convent school City: St. Jose De Areal								
Duration:-March - 2025								
Sr.No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)						
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO		
1	06-03-2025	82	38	10	13	1.26	**82**	Satisfactory
2	10-03-2025	83	40	10	14	1.08	**83**	Satisfactory
3	13-03-2025	72	34	10	13	1.17	**72**	Satisfactory
4	17-03-2025	86	41	9	12	1.33	**86**	Satisfactory

Station: location 6 Nearmain gate of M/s Goa Carbon Ltd							City :St. Jose De Areal	
Duration:-March - 2025								
Sr.No		Time Weighted Average (TWA)					AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	1-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)						
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO		
1	06-03-2025	72	29	9	13	0.28	**72**	Satisfactory
2	10-03-2025	59	35	9	12	0.28	**59**	Satisfactory
3	13-03-2025	50	26	9	12	0.22	**50**	Good
4	17-03-2025	54	24	7	12	0.29	**54**	Satisfactory

Overall the average of PM10, PM2.5, SO2 & Nox at all residential sites remained below the prescribed limits as specified in the guidelines of NAAQS established by the CPCB.

However the PM10, PM2.5, No2, SO2 concentration levels within plant premises are above the permissible limits, indicating the variations in the concentration level of fugitive dust emissions within the workplace due to ongoing process material handling activities, installation of FGDS unit, vehicular movements etc.

ANNEXURE-X

LIST OF INDUSTRIAL UNITS WHERE (CAAQMS) MOBILE VAN CONDUCTED AMBIENT AIR QUALITY MONITORING DURING 2024-25

Sr No	Name of the Industries	Monitoring Date
1.	M/s. Smart City Panjim (NearCaculo Mall, Don Bosco School & Hotel Vivanta)	28/03/2024 to 04/06/2024
2.	M/s. Himgiri Casting Pvt. Ltd. Kundaim Ind. Estate, Kundaim, Ponda-Goa	12/11/2024 & 14/11/2024
3.	M/s. Medispray Laboratories Pvt. Ltd, Kundaim Industrial Estate, Kundaim, Ponda-Goa	06/11/2024 & 07/11/2024
4.	M/s. Berger Paints India Ltd. Kundaim Industrial Estate, Kundaim, Ponda-Goa	16/11/2024 & 18/11/2024
5.	M/s. EncubeEthicals Pvt. Ltd. Madkaim Industrial Estate,Madkaim, Ponda-Goa	20/11/2024 & 22/11/2024
6.	M/s. Sahanu Sponge & Power Limited, Bicholim Industrial Estate, Bicholim	11/12/2024 & 13/04/2024
7.	M/s. Nestle India Ltd. Maulinguem,Bicholim-Goa	17/12/2024 & 19/12/2024
8.	M/s.Centaur Pharmaceuticals Pvt. Ltd Tuem Industrial Estate, Tuem, Pernem	24/12/2024 to 26/12/2024
9.	M/s. Micro Labs Limited Verna Industrial Estate, Verna, Salcete-Goa	09/01/2025 & 10/01/2025
10.	M/s. Jaelynn Pvt. Ltd. Dhargal Industrial Estate, Dhargal, Pernem-Goa	09/01/2025 & 10/01/2025
11.	M/s. Hindustan Coca Cola Beverages Pvt. Ltd. Verna Industrial Estate, Verna, Salcete	13/01/2025 & 14/01/2025
12.	M/s. Colorcon Asia Pvt. Ltd. Verna Industrial Estate, Verna, Salcete	17/01/2025 & 18/01/2025
13.	M/s. Sanofi India Ltd, Verna Industrial Estate, Verna, Salcete	22/01/2025 & 23/01/2025
14.	M/s. Marksans Pharma Limited Verna Industrial Estate, Verna, Salcete -Goa	25/01/2025 &27/01/2025
15.	M/s. Pfizer Limited Verna Industrial Estate, Verna, Salcete -Goa	29/01/2025 & 31/01/2025
16.	M/s. Lupin Ltd. Verna Industrial Estate,Verna, Salcete -Goa	29/01/2025 & 31/01/2025

17.	M/s. Watson Pharma Limited Verna Industrial Estate, Verna, Salcete	04/02/2025 & 06/02/2025
18	M/s. CIPLA LTD. Verna Ind, Estate,VernaSalcete -Goa	04/02/2025 & 06/02/2025 11/02/2025 & 13/02/2025
19	M/s. Indoco Remedies Ltd. (Plant III) Verna ind, Estate,VernaSalcete -Goa	04/02/2025 & 06/02/2025
20	M/s. Paradeep Phosphates, Zuarinagar, Sancoale, Momrugao Goa	19/02/2025 & 21/02/2025
21.	M/s. Vergo Pharma Reasearch Laboratories Pvt. Ltd. Verna Industrial Estate, Verna, Salcete	28/02/2025 & 03/02/2025
22.	M/s. FDC Ltd. Verna Industrial Estate, Verna, Salcete	05/03/2025 & 07/03/2025
23.	M/s. Abbott India Ltd. Verna Industrial Estate, Verna, Salcete	11/03/2025 & 13/03/2025
24.	M/s. Goa Carbon Limited, St. Jose De Areal,Salcete- Goa	06/03/2025 to 07/03/2025 10/03/2025 to 11/03/2025 17/03/2025 to 18/03/2025

ANNEXURE-XI

Name of the Location: Patto, Panaji-Goa										
AAQM wrt Deepawali 2024										
Date	Regulatory parameters							Proposed New parameters		
					Metals in PM_{10}			**Metals/Elements in $PM_{2.5}$**		
	PM_{10} ($\mu g/m^{3)}$	**$PM_{2.5}$ ($\mu g/m^{3)}$**	**SO_2 ($\mu g/m^{3)}$**	**NO_2 ($\mu g/m^{3)}$**	**Pb ($\mu g/m^{3)}$**	**Ni (ng/$m^{3)}$**	**As (ng/$m^{3)}$**	**Al ($\mu g/m^{3)}$**	**Ba ($\mu g/m^{3)}$**	**Fe ($\mu g/m^{3)}$**
24-10-2024	65.7	31.6	11.16	19.07	0.05	1.34	0.49	1.56	0.03	0.31
25-10-2024	79.1	37.4	10.75	16.8	0.05	1.71	0.53	2.41	0.05	0.41
26-10-2024	72.5	33.8	9.51	15.66	0.07	0.73	1.28	0.18	0.01	0.16
27-10-2024	68.3	35.1	11.48	17.24	0.12	1.37	1.85	2.79	<0.004	0.31
28-10-2024	81.9	43.2	10.91	16.98	0.14	3.36	1.64	0.2	<0.004	0.08
29-10-2024	93.6	45.7	12.89	18.39	0.11	0.99	1.23	0.5	0.01	0.27
30-10-2024	**134.2**	**71.9**	16.26	24.19	0.07	0.62	0.81	3.08	0.05	0.58
31-10-2024	**111.9**	**63.1**	13.07	18.11	0.07	0.58	1.21	3.27	0.04	0.92
01-11-2024	**119.1**	**65.2**	14.03	20.14	0.04	1.38	0.87	2.91	0.06	0.63
02-11-2024	**103.2**	57.3	11.24	17.39	0.1	1.92	2.05	1.15	0.17	0.22
03-11-2024	**124.2**	**66.9**	15.16	21.94	0.07	2.72	1.01	0.37	0.05	0.06
04-11-2024	77.8	39.5	12.07	16.18	0.13	2.81	0.8	1.14	0.05	0.37
05-11-2024	86.4	41.9	11.88	18.57	0.05	1.61	0.84	0.24	0.03	0.09
06-11-2024	98.2	47.7	13.29	20.63	0.19	3.75	1.73	2.95	0.04	0.32
07-11-2024	72.6	38.1	10.8	15.33	0.06	1.67	1.78	0.6	0.03	0.18

ANNEXURE XII

Annual AAQM Data of Mining Transportaion Station from April 2024 to March 2025

SR NO.	NAME OF LOCATION	SOUTH/ NORTH GOA
1.	Ajoba Devastan Honda Sanquelim Goa	North Goa
2.	Mr Sagun S. GawasAmbegal Pale Goa	North Goa
3.	Mr Baliram Malik Sirsaim Goa	North Goa
4.	Mr Jaydev B. NatekarWadakadeUsagao Goa	North Goa
5.	Mr Kusta Gaounkar, Nalini Bar & restaurant Codli	North Goa
6.	Mr Ramdas House Velguem Goa	North Goa
7.	Mr Sidhesh KotkarPilgao Goa	North Goa
8.	Mrs Siya SulekarSurlaVillage	North Goa
9.	Tushar weigh Bridge Vagus Junction	North Goa
10.	Government Primary School FanaswadiNavelim Goa	North Goa
11.	Vasu Hotel near Tagor School Cotambi Pale Goa	North Goa
12.	Village Panchayat Mayem Goa	North Goa
13.	Village Panchayat Pissurlem Goa	North Goa
14.	IHM Porvorim, Goa	North Goa
15.	Ravindra House, Haldanwadi Mayem, Nearby Vittal Temple	North Goa
16	Village Panchayat UgemSanguem Goa	South Goa
17.	Near Tilamol Junction Quepem Goa	South Goa
18.	Somnath School Codli Goa	South Goa
19.	Mr Ramnath B Naik AmbaulimDuddemollQuepem Goa	South Goa
20.	Near Quepem Circle Near Govt offices	South Goa
21.	Mr Ashish Naik Near Rivona Gate Rivona Goa	South Goa
22.	Mr Aniket DessaiShigao Goa	South Goa
23.	Mr Dilip Rivonkar Near Sai temple Kaley Goa	South Goa
24.	Mr Anil FaldessaiKurpem village Kurpem Goa	South Goa
25.	Government Polytechnic Collage Cacora Goa	South Goa
26.	Government High School Zambaulim Goa	South Goa
27.	Government High School Colomba Goa	South Goa
28.	Mr Diago Fernandes House UgemSanguem Goa	South Goa
29	Near Dy Collevtor Office Dharbandora Goa	South Goa

30.	Near CaveremPirla Anganwadi	South Goa
31	Government Primary School Sanvordem Goa	South Goa
32.	Mr. Caitano Dcosta, Tollem Bus Stand, Sanvordem, nearby Capxem Jetty	South Goa
33	Mr.Aakash Naik Tishem, Borim, Nearby old bridge, Borim	South Goa
34	Ravindra Bhawan, Curchorem circle	South Goa

AMBIENT AIR QUALITY MONITORING ALONG IRON ORE TRANSPORTATION (C-DAC) NORTH GOA

Station 1: Ajoba Devesthan Honda, Sanquelim Velguem, Surla, Usgaon Road, Near By Ajoba Nagar.									
Duration :-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3		
1	22-01-2025	183.69	96.17	14.69	18.94	494.20	21.29	61	Satisfactory
2	23-01-2025	178.75	93.29	17.47	18.49	663.94	21.77	67	Satisfactory
3	24-01-2025	184.59	96.02	14.26	18.76	555.78	22.54	68	Satisfactory
4	25-01-2025	146.91	76.54	15.44	19.22	534.96	24.90	63	Satisfactory
5	26-01-2025	98.67	50.88	23.18	19.70	769.36	24.35	62	Satisfactory
6	27-01-2025	98.43	51.32	20.49	17.39	682.18	18.30	61	Satisfactory
7	28-01-2025	49.40	27.75	11.02	11.13	574.97	4.98	70	Satisfactory
8	29-01-2025	61.15	34.41	10.79	11.13	584.09	4.77	78	Satisfactory
9	30-01-2025	72.90	40.99	11.02	11.05	534.42	4.82	72	Satisfactory
10	31-01-2025	64.90	37.05	12.13	10.99	701.01	5.09	77	Satisfactory
11	04-02-2025	60.44	33.94	4.61	11.44	219.88	6.3	80	Satisfactory
12	05-02-2025	67.99	38.21	9.93	11.08	558.91	4.82	72	Satisfactory
13	06-02-2025	65.65	36.78	8.49	10.96	437.18	4.95	70	Satisfactory
14	07-02-2025	60.91	34.41	10.21	11.23	595.69	5.35	67	Satisfactory
15	08-02-2025	60.04	34.01	11.12	11.35	565.12	5.42	67	Satisfactory
16	09-02-2025	58.21	33.04	10.86	11.32	549.56	5.12	65	Satisfactory
17	10-02-2025	74.55	42.52	10.02	11.14	532.31	5.07	64	Satisfactory

18	11-02-2025	79.87	45.62	10.06	11.04	520.18	5.09	74	Satisfactory
19	12-02-2025	67.32	38.68	11.14	11.09	610.28	4.97	61	Satisfactory
20	13-02-2025	82.96	47.41	10.03	10.71	521.89	4.45	70	Satisfactory
21	14-02-2025	76.73	43.98	9.98	10.65	450.38	4.77	78	Satisfactory
22	15-02-2025	71.96	41.09	9.49	10.86	291.94	4.94	72	Satisfactory
23	16-02-2025	68.52	39.06	8.41	11.09	402.09	4.89	76	Satisfactory
24	17-02-2025	63.42	35.99	12.31	11.33	578.4	4.92	80	Satisfactory
25	18-02-2025	63.96	36.23	12.1	11.04	426.4	4.77	72	Satisfactory
26	19-02-2025	65.89	37.34	7.31	10.95	307.62	5.02	70	Satisfactory
27	20-02-2025	63.21	35.73	6.83	11.34	381.01	5.27	67	Satisfactory
28	01-03-2025	60.50	34.22	13.36	11.25	509.78	4.82	63	Satisfactory
29	02-03-2025	63.25	35.86	15.30	11.27	659.79	5.15	69	Satisfactory
30	03-03-2025	47.69	26.91	13.47	11.55	685.79	5.19	59	Satisfactory
31	04-03-2025	49.91	27.99	9.51	11.03	390.83	4.87	50	Good
32	05-03-2025	59.30	33.62	14.33	11.23	501.85	4.92	66	Satisfactory
33	06-03-2025	58.84	33.33	16.69	11.43	527.83	5.15	70	Satisfactory
34	07-03-2025	57.00	32.28	15.46	11.19	697.70	4.75	68	Satisfactory
35	08-03-2025	45.79	25.93	17.76	11.21	644.40	4.64	65	Satisfactory
36	09-03-2025	51.12	28.37	10.00	10.45	376.73	4.44	55	Satisfactory
37	10-03-2025	65.94	36.47	8.54	10.70	314.09	4.52	64	Satisfactory
38	11-03-2025	72.57	40.57	13.38	11.19	588.66	5.23	74	Satisfactory
39	12-03-2025	63.57	35.83	19.92	11.19	813.42	4.52	77	Satisfactory
40	13-03-2025	92.15	47.37	7.63	11.22	675.70	22.08	85	Satisfactory
41	14-03-2025	98.68	50.61	4.62	11.19	410.46	24.01	95	Satisfactory
42	15-03-2025	147.13	75.64	3.68	11.45	319.03	24.22	136	Moderate
43	16-03-2025	129.99	66.58	3.31	11.39	370.86	25.16	143	Moderate
44	17-03-2025	102.53	52.59	3.52	11.31	423.97	23.09	107	Moderate
45	18-03-2025	87.60	44.84	3.42	10.97	456.65	22.41	88	Satisfactory

46	19-03-2025	82.91	42.33	3.44	11.18	436.41	24.05	85	Satisfactory
47	20-03-2025	71.56	36.39	3.88	11.30	508.88	23.79	72	Satisfactory
48	21-03-2025	98.87	50.14	3.28	10.91	359.17	23.16	90	Satisfactory
49	22-03-2025	82.53	41.88	5.32	11.11	536.87	19.67	89	Satisfactory
50	23-03-2025	68.95	35.48	4.45	11.18	508.88	24.32	67	Satisfactory
51	24-03-2025	80.88	41.37	4.32	11.19	416.40	23.31	77	Satisfactory
52	25-03-2025	80.68	41.02	4.08	11.29	497.14	24.61	82	Satisfactory
53	26-03-2025	91.60	46.67	5.29	11.67	437.56	23.82	87	Satisfactory
54	27-03-2025	81.64	41.65	2.53	10.55	512.47	23.60	78	Satisfactory
55	28-03-2025	81.36	41.55	3.79	11.26	464.60	26.05	83	Satisfactory
56	29-03-2025	71.95	36.85	3.66	11.21	420.60	25.74	73	Satisfactory
57	30-03-2025	83.75	43.00	3.34	10.73	393.02	21.34	80	Satisfactory
58	31-03-2025	72.67	37.01	3.27	10.96	494.80	20.89	78	Satisfactory

Station 2: Mr. Sagun S. Gawas House, Ambegal, pale.									
Duration:-									
Sr. No		**Time Weighted Average (TWA)**						**AQI**	**AIR QLTY**
		24-Hr	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
	Parameters	**Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)**							
	Date	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**	***CO**	**O_3**		
1	22-01-2025	74.35	41.63	2.86	15.95	117.00	15.81	77	Satisfactory
2	23-01-2025	78.46	43.27	8.16	16.64	245.50	22.01	78	Satisfactory
3	24-01-2025	84.32	46.37	6.57	17.11	208.55	22.33	82	Satisfactory
4	25-01-2025	91.65	50.39	7.35	17.46	264.60	18.37	91	Satisfactory
5	26-01-2025	55.89	29.84	10.43	17.00	286.61	19.50	65	Satisfactory
6	27-01-2025	60.95	32.26	9.20	17.25	256.72	20.96	60	Satisfactory
7	28-01-2025	74.91	39.66	8.68	18.62	278.18	22.84	71	Satisfactory
8	29-01-2025	76.93	40.78	8.16	17.45	226.72	23.63	77	Satisfactory

9	30-01-2025	110.57	58.60	9.31	19.27	271.11	23.62	100	Satisfactory
10	31-01-2025	86.16	46.60	8.87	17.71	261.29	22.06	95	Satisfactory
11	01-02-2025	96.83	52.15	7.52	18.04	195.11	24.31	91	Satisfactory
12	02-02-2025	89.96	48.04	7.51	17.85	184.56	23.84	93	Satisfactory
13	03-02-2025	111.52	59.36	6.55	17.75	194.76	24.27	105	Moderate
14	04-02-2025	65.61	34.60	7.92	17.83	219.54	22.58	81	Satisfactory
15	05-02-2025	35.50	18.69	6.79	18.22	232.49	26.48	47	Good
16	06-02-2025	37.97	19.97	5.95	18.32	182.20	27.08	46	Good
17	07-02-2025	35.30	18.61	6.69	17.79	222.60	23.81	45	Good
18	08-02-2025	36.50	19.36	7.14	17.93	253.92	23.25	44	Good
19	09-02-2025	33.65	17.93	7.21	18.06	239.20	24.77	44	Good
20	10-02-2025	43.17	23.24	6.84	18.35	244.76	25.36	47	Good
21	11-02-2025	47.57	25.78	6.85	18.89	276.71	24.88	49	Good
22	12-02-2025	39.91	21.76	7.10	18.16	258.67	25.56	48	Good
23	13-02-2025	43.20	23.42	6.39	17.86	202.09	29.59	46	Good
24	14-02-2025	42.94	23.30	6.83	18.39	237.64	27.08	48	Good
25	15-02-2025	42.29	23.01	6.55	18.77	182.09	26.68	48	Good
26	16-02-2025	40.71	22.06	6.44	18.04	196.85	26.90	48	Good
27	17-02-2025	34.70	18.53	7.86	16.99	218.12	25.68	43	Good
28	18-02-2025	37.56	19.95	7.33	17.91	215.38	26.80	45	Good
29	19-02-2025	35.54	18.85	4.45	17.92	148.73	25.67	44	Good
30	20-02-2025	35.16	18.65	4.04	17.28	150.54	25.02	43	Good
31	01-03-2025	37.53	20.16	7.13	19.09	191.90	28.45	46	Good
32	02-03-2025	37.22	20.00	8.65	17.84	267.96	25.45	45	Good
33	03-03-2025	29.52	15.73	8.39	17.63	272.85	23.03	43	Good
34	04-03-2025	26.06	13.64	6.64	17.40	156.20	31.45	42	Good

35	05-03-2025	35.12	18.46	9.92	17.91	245.18	27.63	47	Good
36	06-03-2025	32.94	17.46	8.67	17.58	194.68	26.70	46	Good
37	07-03-2025	36.15	19.07	9.77	18.02	261.34	27.71	46	Good
38	08-03-2025	28.16	14.70	10.41	17.47	218.33	27.11	46	Good
39	09-03-2025	31.39	16.22	5.88	18.26	171.39	29.64	44	Good
40	10-03-2025	40.27	20.86	4.01	19.48	148.19	28.90	47	Good
41	11-03-2025	39.77	20.98	7.64	18.01	186.32	24.74	46	Good
42	12-03-2025	37.56	19.86	10.24	17.51	268.93	25.79	46	Good
43	13-03-2025	29.53	15.60	8.46	17.61	217.81	25.28	44	Good
44	14-03-2025	25.40	13.20	5.63	17.91	164.38	25.98	42	Good
45	15-03-2025	34.33	17.94	5.35	15.49	172.40	24.97	40	Good
46	16-03-2025	31.33	16.28	3.82	17.08	145.21	23.24	40	Good
47	17-03-2025	32.05	16.77	4.60	18.06	218.74	23.16	42	Good
48	18-03-2025	24.23	12.54	3.23	17.42	159.49	26.94	42	Good
49	19-03-2025	22.49	11.57	4.22	15.84	180.59	26.26	38	Good
50	20-03-2025	19.22	9.91	4.50	16.43	187.73	23.12	36	Good
51	21-03-2025	26.93	13.98	4.39	18.27	155.49	25.73	42	Good
52	22-03-2025	24.84	12.93	5.08	17.28	179.25	25.41	40	Good
53	23-03-2025	18.92	10.07	6.24	16.90	179.01	23.14	40	Good
54	24-03-2025	20.01	10.48	5.37	17.28	169.67	25.62	40	Good
55	25-03-2025	22.23	11.56	5.18	17.65	149.65	23.94	41	Good
56	26-03-2025	23.28	12.24	3.95	19.16	142.99	25.64	43	Good
57	27-03-2025	22.06	11.67	3.82	19.88	141.74	24.19	46	Good
58	28-03-2025	19.70	10.51	4.93	17.03	186.52	21.87	43	Good
59	29-03-2025	16.63	8.94	4.68	17.81	165.51	21.47	39	Good
60	30-03-2025	21.62	11.44	3.14	18.58	133.15	27.39	43	Good
61	31-03-2025	21.66	11.37	3.70	17.75	174.50	24.81	43	Good

Station 3: Baliram Govind Malik House, mapusa-Bicholim Rd, Sirsai .									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	23-01-2025	117.07	62.79	12.44	6.86	296.83	40.72	107	Moderate
2	24-01-2025	111.61	59.48	16.56	7.23	228.10	44.00	111	Moderate
3	25-01-2025	100.47	53.36	15.15	7.41	262.34	49.55	102	Moderate
4	26-01-2025	65.24	34.53	17.33	7.58	281.04	50.15	80	Satisfactory
5	27-01-2025	67.66	35.84	16.60	7.41	270.07	46.89	74	Satisfactory
6	28-01-2025	62.65	32.95	17.79	7.30	212.21	43.62	71	Satisfactory
7	29-01-2025	94.68	50.11	18.15	7.19	274.05	43.04	92	Satisfactory
8	30-01-2025	65.86	34.58	25.14	8.13	190.42	33.70	86	Satisfactory
9	31-01-2025	96.34	51.58	13.75	6.84	266.92	42.44	90	Satisfactory
10	01-02-2025	117.77	62.90	17.57	7.14	234.17	42.93	112	Satisfactory
11	02-02-2025	100.07	53.07	17.99	7.19	178.82	42.76	111	Moderate
12	03-02-2025	117.74	61.76	17.65	7.33	188.20	40.83	109	Moderate
13	04-02-2025	83.90	43.89	17.99	7.45	180.42	42.09	97	Satisfactory
14	05-02-2025	64.50	35.37	17.01	7.26	254.89	45.04	75	Satisfactory
15	06-02-2025	32.49	20.94	17.22	7.13	217.85	43.04	56	Satisfactory
16	07-02-2025	29.14	18.90	16.73	7.40	224.39	46.39	56	Satisfactory
17	08-02-2025	23.50	15.22	17.68	7.67	241.97	42.72	56	Satisfactory
18	09-02-2025	25.33	16.49	17.64	7.60	223.75	41.38	58	Satisfactory
19	10-02-2025	49.67	28.51	14.21	8.60	175.73	30.79	61	Satisfactory
20	11-02-2025	71.94	39.76	7.62	9.68	207.04	22.26	68	Satisfactory
21	12-02-2025	72.02	39.99	7.71	9.69	211.13	23.41	72	Satisfactory
22	13-02-2025	71.17	38.90	7.80	9.42	189.18	22.25	70	Satisfactory
23	14-02-2025	69.91	38.35	7.49	9.51	205.28	23.94	71	Satisfactory

24	15-02-2025	71.10	39.00	6.97	9.49	176.64	25.22	70	Satisfactory
25	16-02-2025	65.70	35.76	7.55	9.51	150.16	23.29	67	Satisfactory
26	17-02-2025	63.10	34.17	7.58	9.66	223.14	23.30	63	Satisfactory
27	18-02-2025	65.09	35.05	7.51	9.46	222.15	23.38	64	Satisfactory
28	19-02-2025	69.79	37.73	6.85	9.52	175.56	26.91	69	Satisfactory
29	20-02-2025	61.97	33.30	6.83	9.85	163.61	26.86	64	Satisfactory
30	01-03-2025	56.58	30.86	7.71	9.80	175.96	22.38	37	Satisfactory
31	02-03-2025	55.77	30.38	7.85	9.80	243.50	24.20	57	Satisfactory
32	03-03-2025	43.35	23.56	7.51	9.91	211.37	23.33	46	Good
33	04-03-2025	45.14	24.25	7.60	9.44	139.27	22.40	44	Good
34	05-03-2025	60.41	32.52	7.79	9.70	245.45	24.13	56	Satisfactory
35	06-03-2025	49.05	26.46	8.13	9.93	177.33	24.60	52	Satisfactory
36	07-03-2025	47.01	25.34	8.23	9.87	249.17	23.08	49	Good
37	08-03-2025	41.01	22.03	8.47	9.62	189.93	21.69	45	Good
38	09-03-2025	49.33	26.20	8.78	9.38	144.29	18.83	47	Good
39	10-03-2025	60.65	31.97	8.21	9.48	138.73	22.45	57	Satisfactory
40	11-03-2025	61.40	32.83	8.47	10.31	156.04	19.34	64	Satisfactory
41	12-03-2025	56.97	30.67	8.16	10.01	227.19	21.93	54	Satisfactory
42	13-03-2025	44.68	24.15	7.36	9.91	230.94	25.27	49	Good
43	14-03-2025	36.56	19.69	7.08	9.81	163.98	26.23	38	Good
44	15-03-2025	59.14	31.94	7.26	9.91	127.01	26.06	52	Satisfactory
45	16-03-2025	49.33	26.61	6.98	9.88	147.69	28.51	55	Satisfactory
46	17-03-2025	38.13	20.68	6.94	9.91	142.64	27.17	40	Good
47	18-03-2025	31.23	16.75	7.51	9.76	150.33	24.52	32	Good
48	19-03-2025	31.06	16.66	6.87	9.79	145.85	27.90	31	Good
49	20-03-2025	28.66	15.31	7.21	9.76	165.33	27.19	30	Good
50	21-03-2025	38.95	20.72	6.63	9.47	151.35	25.68	36	Good
51	22-03-2025	34.29	18.40	7.74	9.60	149.44	23.54	37	Good

52	23-03-2025	28.58	15.36	7.14	9.48	178.79	27.90	31	Good
53	24-03-2025	32.76	17.53	7.42	9.51	168.02	25.49	32	Good
54	25-03-2025	30.67	16.36	6.15	9.38	161.38	28.13	32	Good
55	26-03-2025	34.28	18.43	7.75	9.09	161.96	24.87	33	Good
56	27-03-2025	32.04	17.21	7.56	9.15	164.36	26.28	33	Good
57	28-03-2025	25.33	13.55	7.24	9.65	193.39	28.06	29	Good
58	29-03-2025	24.12	13.01	7.23	9.59	175.45	29.19	27	Good
59	30-03-2025	30.50	16.40	8.19	9.39	127.12	20.06	29	Good
60	31-03-2025	26.91	14.39	8.67	9.60	166.45	18.40	30	Good

Station 4: Jaydev B Natekar,usgao.									
Duration:-									
Sr. No		**Time Weighted Average (TWA)**						**AQI**	**AIR QLTY**
		24-Hr	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
	Parameters	**Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)**							
	Date	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**		
1	22-01-2025	92.73	54.17	3.37	9.22	121.57	58.46	95	Satisfactory
2	23-01-2025	88.99	51.21	4.77	9.32	477.84	51.42	91	Satisfactory
3	24-01-2025	82.30	47.44	4.37	9.44	342.22	48.15	87	Satisfactory
4	25-01-2025	80.60	46.56	4.25	9.41	487.96	43.61	81	Satisfactory
5	26-01-2025	52.28	28.67	6.08	9.89	589.88	38.61	58	Satisfactory
6	27-01-2025	81.86	45.78	3.65	9.12	360.12	52.85	77	Satisfactory
7	28-01-2025	67.82	37.65	4.87	9.40	440.45	47.94	70	Satisfactory
8	29-01-2025	55.62	30.80	4.36	9.28	366.34	55.79	61	Satisfactory
9	30-01-2025	82.79	47.28	4.62	9.44	377.04	53.11	71	Satisfactory
10	31-01-2025	86.53	50.15	4.84	9.44	423.07	45.72	90	Satisfactory
11	01-02-2025	83.36	48.44	4.35	9.37	298.92	54.81	83	Satisfactory
12	02-02-2025	85.85	50.24	4.36	9.31	290.85	53.68	87	Satisfactory
13	03-02-2025	92.62	53.85	4.10	9.30	320.94	53.93	89	Satisfactory

14	04-02-2025	65.55	37.21	4.56	9.36	354.28	48.15	74	Satisfactory
15	05-02-2025	79.44	44.90	4.51	9.28	372.21	51.06	74	Satisfactory
16	06-02-2025	83.35	47.48	4.24	9.37	281.94	49.58	85	Satisfactory
17	07-02-2025	80.77	46.26	4.32	9.42	458.28	45.04	81	Satisfactory
18	08-02-2025	72.14	41.49	4.24	9.46	410.24	46.09	74	Satisfactory
19	09-02-2025	69.73	40.07	4.53	9.39	366.97	44.78	70	Satisfactory
20	10-02-2025	87.19	50.73	4.41	9.42	347.09	45.95	82	Satisfactory
21	11-02-2025	92.67	54.77	4.39	9.37	352.41	45.04	93	Satisfactory
22	12-02-2025	88.05	51.40	4.72	9.28	420.90	44.67	91	Satisfactory
23	13-02-2025	87.42	50.81	6.23	9.70	338.05	78.51	88	Satisfactory
24	14-02-2025	81.94	46.95	6.30	9.75	356.79	54.17	88	Satisfactory
25	15-02-2025	78.67	45.44	4.25	9.38	247.85	52.41	76	Satisfactory
26	16-02-2025	75.88	43.29	5.60	9.84	272.71	58.54	78	Satisfactory
27	17-02-2025	85.87	49.23	5.19	9.64	363.95	52.30	82	Satisfactory
28	18-02-2025	87.54	50.13	3.98	9.18	318.42	58.17	86	Satisfactory
29	19-02-2025	84.13	48.96	3.91	9.48	229.48	45.97	88	Satisfactory
30	20-02-2025	78.46	45.29	3.92	9.59	254.26	46.00	79	Satisfactory
31	01-03-2025	82.86	48.08	4.90	9.52	349.12	44.07	80	Satisfactory
32	02-03-2025	63.31	36.06	6.53	10.23	473.29	39.61	71	Satisfactory
33	03-03-2025	63.07	35.80	5.25	9.68	492.82	37.23	61	Satisfactory
34	04-03-2025	59.53	33.24	5.01	9.75	279.17	42.08	62	Satisfactory
35	05-03-2025	76.27	43.30	5.23	9.67	359.54	43.72	69	Satisfactory
36	06-03-2025	68.92	39.17	5.11	9.62	277.56	51.97	72	Satisfactory
37	07-03-2025	79.56	45.61	5.15	9.59	347.02	56.33	76	Satisfactory
38	08-03-2025	68.95	38.54	5.63	9.56	368.59	53.29	72	Satisfactory
39	09-03-2025	73.72	40.90	4.30	9.43	223.53	56.08	71	Satisfactory
40	10-03-2025	88.59	50.72	4.28	9.37	229.43	52.58	86	Satisfactory
41	11-03-2025	86.57	49.82	4.61	9.54	293.21	50.01	89	Satisfactory
42	12-03-2025	78.86	45.13	5.64	9.56	431.55	52.06	80	Satisfactory

43	13-03-2025	60.31	34.08	4.26	9.46	336.75	44.95	66	Satisfactory
44	14-03-2025	61.15	34.23	4.10	9.58	246.14	37.26	59	Satisfactory
45	15-03-2025	77.68	45.64	4.00	9.65	251.08	41.64	72	Satisfactory
46	16-03-2025	67.88	39.12	3.94	9.59	189.01	36.29	74	Satisfactory
47	17-03-2025	57.52	31.91	4.27	9.60	241.37	42.53	59	Satisfactory
48	18-03-2025	56.48	30.80	4.20	9.44	217.81	41.06	56	Satisfactory
49	19-03-2025	51.95	28.31	4.13	9.55	236.68	43.25	54	Satisfactory
50	20-03-2025	45.11	24.42	4.33	9.65	276.72	38.52	45	Good
51	21-03-2025	62.15	34.14	3.98	9.35	246.93	50.51	57	Satisfactory
52	22-03-2025	56.77	31.05	4.80	9.54	239.62	50.12	59	Satisfactory
53	23-03-2025	47.00	25.91	4.50	9.53	291.08	39.49	49	Good
54	24-03-2025	52.14	28.75	3.96	9.29	256.30	50.67	50	Good
55	25-03-2025	52.20	28.39	4.15	9.60	229.17	37.10	52	Satisfactory
56	26-03-2025	51.16	28.32	4.42	9.25	216.28	39.28	52	Satisfactory
57	27-03-2025	48.02	26.64	4.18	9.23	243.86	38.71	48	Good
58	28-03-2025	47.78	26.43	4.18	9.47	263.67	38.05	48	Good
59	29-03-2025	49.57	27.22	4.17	9.49	245.81	38.76	49	Good
60	30-03-2025	55.45	29.94	4.29	9.43	189.46	39.96	53	Satisfactory
61	31-03-2025	49.96	27.14	4.34	9.63	224.81	31.80	53	Satisfactory

Station 5: Mr. Kusta Gaounkar, Nalini Bar & Restaurant, Codli									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	23-01-2025	91.23	47.34	9.79	9.79	268.41	25.55	90	Satisfactory
2	24-01-2025	102.27	52.65	6.43	9.46	207.65	21.40	97	Satisfactory
3	25-01-2025	88.61	45.53	8.94	10.10	235.40	15.04	92	Satisfactory
4	26-01-2025	57.23	29.45	11.09	10.36	269.36	15.61	65	Satisfactory

5	27-01-2025	66.87	34.33	10.47	9.69	251.71	17.49	65	Satisfactory
6	28-01-2025	63.25	32.38	8.66	9.14	222.99	19.99	65	Satisfactory
7	29-01-2025	86.78	44.07	8.31	8.89	225.73	23.11	78	Satisfactory
8	30-01-2025	107.96	54.94	8.22	8.88	225.52	24.77	99	Satisfactory
9	31-01-2025	110.91	57.45	9.22	9.08	242.75	18.93	111	Moderate
10	01-02-2025	106.72	54.98	7.54	8.73	223.69	24.85	104	Moderate
11	02-02-2025	119.16	60.88	7.81	9.11	224.97	23.88	113	Moderate
12	03-02-2025	118.23	60.12	6.68	9.06	214.02	24.15	114	Moderate
13	04-02-2025	81.71	41.79	9.07	9.43	245.16	20.48	93	Satisfactory
14	05-02-2025	49.72	25.33	7.54	8.94	216.79	23.93	55	Satisfactory
15	06-02-2025	51.99	26.44	6.87	8.63	207.30	21.69	52	Satisfactory
16	07-02-2025	50.92	26.01	8.10	9.31	221.67	16.84	51	Satisfactory
17	08-02-2025	52.69	26.89	8.47	9.29	224.15	16.15	52	Satisfactory
18	09-02-2025	52.50	26.88	8.72	9.35	231.89	18.60	53	Satisfactory
19	10-02-2025	64.52	33.75	5.47	8.18	208.78	21.09	61	Satisfactory
20	11-02-2025	71.79	37.33	7.73	8.90	220.09	19.87	69	Satisfactory
21	12-02-2025	58.94	30.79	7.94	9.00	231.62	18.79	63	Satisfactory
22	13-02-2025	73.15	37.57	8.02	8.47	216.89	30.10	67	Satisfactory
23	14-02-2025	66.41	34.11	8.20	8.62	211.12	23.68	70	Satisfactory
24	15-02-2025	66.39	33.76	8.09	8.32	203.42	23.75	65	Satisfactory
25	16-02-2025	67.76	34.48	7.96	8.70	207.96	24.51	67	Satisfactory
26	17-02-2025	55.88	28.73	10.12	9.28	242.13	24.32	60	Satisfactory
27	18-02-2025	57.17	29.36	9.52	8.75	219.06	25.68	58	Satisfactory
28	19-02-2025	64.12	32.84	6.20	8.33	202.08	20.93	63	Satisfactory
29	20-02-2025	64.28	32.73	6.22	9.47	190.63	7.70	63	Satisfactory
30	01-03-2025	62.82	32.03	11.63	8.99	277.54	20.99	67	Satisfactory
31	02-03-2025	60.65	31.10	9.84	9.23	244.54	21.07	63	Satisfactory
32	03-03-2025	44.53	23.03	10.64	8.21	225.17	22.13	49	Good

33	04-03-2025	50.81	25.86	12.06	9.41	237.88	21.81	55	Satisfactory
34	05-03-2025	49.28	25.45	8.98	9.00	229.78	18.30	53	Satisfactory
35	06-03-2025	29.20	15.05	25.52	10.37	316.69	59.61	80	Satisfactory
36	07-03-2025	49.58	25.35	12.54	8.97	237.64	26.27	59	Satisfactory
37	08-03-2025	42.69	21.65	10.54	8.06	211.38	27.98	48	Good
38	09-03-2025	48.19	24.16	6.44	8.02	189.67	26.92	46	Good
39	10-03-2025	58.33	29.07	8.84	8.85	207.83	23.97	56	Satisfactory
40	11-03-2025	60.97	30.86	11.36	8.90	236.95	25.96	64	Satisfactory
41	12-03-2025	48.15	24.74	11.77	8.74	242.65	21.44	55	Satisfactory
42	13-03-2025	37.50	19.24	8.82	8.37	221.23	17.66	42	Good
43	14-03-2025	43.43	21.96	5.62	8.65	191.00	15.71	40	Good
44	15-03-2025	68.15	34.32	4.51	8.66	181.92	15.74	63	Satisfactory
45	16-03-2025	41.16	20.84	4.13	9.19	188.07	15.97	46	Good
46	17-03-2025	36.45	18.64	4.83	8.29	209.54	21.03	38	Good
47	18-03-2025	39.00	19.78	3.98	8.71	190.35	19.97	38	Good
48	19-03-2025	27.36	14.04	4.90	9.61	206.18	16.48	31	Good
49	20-03-2025	33.34	17.16	4.82	8.86	199.66	20.69	32	Good
50	21-03-2025	39.79	20.15	5.86	8.85	200.85	24.03	39	Good
51	22-03-2025	30.32	15.67	7.51	9.06	216.25	19.79	35	Good
52	23-03-2025	28.03	14.47	6.77	8.34	199.50	22.93	31	Good
53	24-03-2025	29.78	15.18	7.67	8.26	192.19	36.84	29	Good
54	25-03-2025	35.72	18.33	4.68	8.50	182.76	16.77	34	Good
55	26-03-2025	30.28	15.41	5.51	8.32	193.13	36.12	31	Good
56	27-03-2025	34.29	17.63	5.43	9.21	203.25	14.34	34	Good
57	28-03-2025	27.84	14.52	5.04	9.23	196.20	14.90	30	Good
58	29-03-2025	30.00	15.67	4.75	8.37	186.35	18.41	29	Good
59	30-03-2025	34.01	17.52	3.58	8.37	184.08	27.84	33	Good
60	31-03-2025	27.57	14.16	3.69	8.56	186.78	22.47	28	Good

Station 6: Ramdas House, Velguem.									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	28-01-2025	152.52	102.15	10.59	22.12	662.63	15.67	116	Moderate
2	29-01-2025	45.79	26.07	13.18	20.67	396.31	17.73	55	Satisfactory
3	30-01-2025	95.03	53.32	10.21	23.99	619.87	18.70	91	Satisfactory
4	31-01-2025	74.12	42.35	11.61	22.08	535.93	17.33	82	Satisfactory
5	01-02-2025	79.94	45.35	11.90	22.45	441.45	17.97	75	Satisfactory
6	02-02-2025	78.26	44.13	12.01	22.17	440.79	17.73	81	Satisfactory
7	03-02-2025	81.90	45.77	11.91	22.17	437.22	17.81	81	Satisfactory
8	04-02-2025	58.61	33.35	11.85	21.98	460.57	17.29	68	Satisfactory
9	05-02-2025	56.11	31.46	11.93	22.10	474.90	17.79	58	Satisfactory
10	06-02-2025	67.65	38.79	11.78	22.10	443.46	17.56	69	Satisfactory
11	07-02-2025	63.11	36.01	11.71	21.94	457.34	17.01	65	Satisfactory
12	08-02-2025	69.24	39.75	11.51	22.09	514.58	16.88	71	Satisfactory
13	09-02-2025	58.66	33.96	11.80	22.09	450.43	17.30	62	Satisfactory
14	10-02-2025	72.78	41.50	10.06	22.05	451.53	17.47	68	Satisfactory
15	11-02-2025	83.32	47.75	9.08	22.16	472.24	17.63	81	Satisfactory
16	12-02-2025	66.57	38.14	9.11	22.12	486.46	17.58	73	Satisfactory
17	13-02-2025	79.75	44.85	8.92	22.66	490.24	19.32	73	Satisfactory
18	14-02-2025	80.33	46.09	8.94	21.97	476.12	17.62	84	Satisfactory
19	15-02-2025	74.32	41.90	9.15	22.07	404.65	17.75	74	Satisfactory
20	16-02-2025	72.27	40.65	9.18	22.05	434.52	17.69	74	Satisfactory
21	17-02-2025	69.04	39.64	9.10	21.92	451.06	17.63	73	Satisfactory
22	18-02-2025	61.24	34.34	9.22	22.03	431.02	18.05	63	Satisfactory

23	19-02-2025	60.03	33.42	9.19	22.01	386.99	17.73	60	Satisfactory
24	20-02-2025	65.23	36.15	9.18	21.87	388.65	17.14	64	Satisfactory
25	01-03-2025	59.89	33.57	9.25	21.71	399.47	17.87	60	Satisfactory
26	02-03-2025	61.45	34.79	8.94	21.83	463.22	17.42	63	Satisfactory
27	03-03-2025	42.19	23.74	8.87	21.56	450.26	17.23	54	Satisfactory
28	04-03-2025	46.67	26.12	9.08	22.03	380.75	18.12	53	Satisfactory
29	05-03-2025	54.01	30.38	9.22	21.38	424.54	17.57	56	Satisfactory
30	06-03-2025	54.12	30.58	9.03	21.74	389.17	17.74	57	Satisfactory
31	07-03-2025	49.88	28.35	9.40	21.45	428.07	18.25	55	Satisfactory
32	08-03-2025	41.07	23.13	9.30	21.70	414.92	18.39	53	Satisfactory
33	09-03-2025	52.42	29.29	9.46	22.07	392.82	18.79	56	Satisfactory
34	10-03-2025	66.03	36.90	9.44	21.94	404.44	18.31	66	Satisfactory
35	11-03-2025	74.64	43.18	8.98	21.76	460.07	17.41	75	Satisfactory
36	12-03-2025	62.78	35.54	9.06	21.68	476.77	17.72	66	Satisfactory
37	13-03-2025	46.94	26.77	8.92	21.67	443.22	17.50	58	Satisfactory
38	14-03-2025	37.57	20.89	8.69	22.22	375.75	17.80	52	Satisfactory
39	15-03-2025	66.17	37.20	9.12	21.69	384.99	17.13	62	Satisfactory
40	16-03-2025	53.78	29.94	9.16	21.65	378.59	16.89	60	Satisfactory
41	17-03-2025	42.65	24.11	9.23	21.67	396.80	17.44	54	Satisfactory
42	18-03-2025	33.91	19.03	9.38	22.00	375.48	17.93	51	Satisfactory
43	19-03-2025	33.63	19.08	9.23	21.75	380.75	17.39	52	Satisfactory
44	20-03-2025	28.44	16.01	9.27	21.64	380.25	17.26	51	Satisfactory
45	21-03-2025	41.34	23.36	9.03	22.28	392.28	18.11	54	Satisfactory
46	22-03-2025	37.68	21.23	9.37	21.86	391.27	17.84	51	Satisfactory
47	23-03-2025	32.07	18.30	9.14	21.80	384.90	17.15	52	Satisfactory
48	24-03-2025	33.16	18.71	9.22	21.76	379.43	17.44	51	Satisfactory
49	25-03-2025	32.83	18.38	9.21	21.64	375.50	17.11	51	Satisfactory
50	26-03-2025	39.20	22.09	9.27	21.87	378.76	17.17	52	Satisfactory
51	27-03-2025	37.12	20.84	9.30	21.99	375.23	17.24	51	Satisfactory

52	28-03-2025	34.59	19.49	9.11	21.83	379.48	16.54	52	Satisfactory
53	29-03-2025	32.55	18.80	9.08	21.68	395.65	16.55	53	Satisfactory
54	30-03-2025	35.17	20.03	9.33	22.04	377.56	18.00	52	Satisfactory
55	31-03-2025	30.28	17.07	9.37	22.03	375.83	17.92	51	Satisfactory

Station 7: Siddhesh Kotkar, Pilgaon.									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	91.92	47.11	4.08	10.08	85.34	9.25	81	Satisfactory
2	23-01-2025	69.74	33.69	7.82	10.36	122.08	10.51	71	Satisfactory
3	24-01-2025	68.43	33.44	6.33	10.33	118.08	11.02	68	Satisfactory
4	25-01-2025	57.58	27.28	7.16	10.41	132.81	10.11	61	Satisfactory
5	26-01-2025	43.38	20.52	10.94	10.42	164.07	9.76	50	Good
6	27-01-2025	45.55	21.85	9.11	10.45	144.05	9.86	49	Good
7	28-01-2025	46.56	22.38	8.80	10.40	134.96	9.98	49	Good
8	29-01-2025	60.52	28.53	8.45	10.33	131.46	10.38	58	Satisfactory
9	30-01-2025	55.67	26.08	12.06	10.55	170.41	12.15	58	Satisfactory
10	31-01-2025	55.53	26.37	10.38	10.42	149.31	10.56	57	Satisfactory
11	01-02-2025	74.95	36.87	7.26	10.33	106.13	10.48	69	Satisfactory
12	02-02-2025	66.17	32.04	7.34	10.32	121.10	10.65	70	Satisfactory
13	03-02-2025	94.79	49.18	3.30	10.06	52.38	8.71	87	Satisfactory
14	04-02-2025	57.21	27.84	7.67	10.42	132.03	11.14	67	Satisfactory
15	05-02-2025	61.29	30.37	7.96	10.30	126.69	10.73	60	Satisfactory
16	06-02-2025	64.25	31.27	5.94	10.28	106.63	10.98	65	Satisfactory
17	07-02-2025	52.59	25.59	10.48	10.49	151.60	11.81	57	Satisfactory
18	08-02-2025	54.90	26.46	9.33	10.41	145.64	10.12	54	Satisfactory

19	09-02-2025	55.48	25.96	8.32	10.34	138.71	10.20	57	Satisfactory
20	10-02-2025	67.94	32.53	7.92	10.38	119.16	10.29	64	Satisfactory
21	11-02-2025	69.21	33.43	8.09	10.43	131.89	10.60	68	Satisfactory
22	12-02-2025	65.01	30.99	9.57	10.37	137.49	10.24	67	Satisfactory
23	13-02-2025	68.17	32.66	8.10	10.32	110.40	11.46	67	Satisfactory
24	14-02-2025	67.44	32.31	8.33	10.28	109.44	10.97	68	Satisfactory
25	15-02-2025	66.85	32.07	7.46	10.41	116.00	10.28	66	Satisfactory
26	16-02-2025	66.86	32.23	5.80	10.29	119.53	11.17	67	Satisfactory
27	17-02-2025	60.18	28.58	8.79	10.34	127.14	11.45	62	Satisfactory
28	18-02-2025	63.59	30.79	8.61	10.42	127.71	10.75	63	Satisfactory
29	19-02-2025	64.85	30.81	5.39	10.35	107.35	10.21	65	Satisfactory
30	20-02-2025	64.74	31.27	5.19	10.52	121.67	10.07	64	Satisfactory
31	01-03-2025	56.67	26.26	9.70	10.41	139.68	10.10	56	Satisfactory
32	02-03-2025	55.57	25.95	10.35	10.20	131.00	9.82	59	Satisfactory
33	03-03-2025	41.00	19.58	11.60	10.56	147.83	9.46	49	Good
34	04-03-2025	46.17	22.09	7.10	10.48	128.71	9.94	46	Good
35	05-03-2025	51.88	24.33	10.26	10.49	130.10	10.86	55	Satisfactory
36	06-03-2025	51.05	23.94	11.82	10.46	132.54	9.98	56	Satisfactory
37	07-03-2025	52.27	24.59	11.03	10.35	129.67	11.05	56	Satisfactory
38	08-03-2025	44.87	21.52	12.74	10.31	136.68	10.39	54	Satisfactory
39	09-03-2025	53.11	26.00	7.36	10.32	122.20	10.64	52	Satisfactory
40	10-03-2025	69.54	35.12	6.14	10.38	111.92	10.68	67	Satisfactory
41	11-03-2025	54.08	27.01	16.53	11.23	228.52	12.73	63	Satisfactory
42	12-03-2025	59.04	29.05	86.87	18.45	181.39	11.37	139	Moderate
43	13-03-2025	33.93	18.19	84.57	19.71	192.66	6.35	148	Moderate
44	14-03-2025	29.36	16.27	77.08	17.93	278.97	7.60	140	Moderate
45	15-03-2025	32.87	17.60	58.93	19.08	252.19	9.29	131	Moderate
46	16-03-2025	29.20	15.63	25.94	12.11	130.73	11.46	91	Satisfactory
47	17-03-2025	24.30	13.22	18.09	11.65	108.88	11.96	57	Satisfactory

48	18-03-2025	54.26	26.55	8.68	10.76	69.77	8.88	51	Satisfactory
49	19-03-2025	44.88	22.69	11.68	10.68	113.40	11.80	53	Satisfactory
50	20-03-2025	41.20	21.55	9.72	10.61	123.59	10.60	48	Good
51	21-03-2025	41.15	21.00	8.87	10.59	125.00	10.65	45	Good
52	22-03-2025	38.50	19.95	7.90	10.64	141.71	10.40	42	Good
53	23-03-2025	46.63	23.48	7.88	10.29	126.00	11.20	45	Good
54	24-03-2025	39.58	20.40	6.87	10.38	145.47	11.09	41	Good
55	25-03-2025	33.21	17.52	6.73	10.54	151.37	10.30	36	Good
56	26-03-2025	34.57	18.05	7.18	10.55	146.05	10.14	36	Good
57	27-03-2025	48.97	24.35	5.67	10.44	116.88	11.50	45	Good
58	28-03-2025	36.99	19.16	6.01	10.62	142.71	11.77	40	Good
59	29-03-2025	41.01	20.82	5.48	10.78	141.28	10.87	39	Good
60	30-03-2025	47.06	23.56	5.27	10.85	143.69	10.13	45	Good
61	31-03-2025	52.88	26.14	6.21	11.02	145.64	9.99	52	Satisfactory

Station 8: Siya Surlekar, Old Surla panchayat.									
Duration:-									
Sr. No		**Time Weighted Average (TWA)**						**AQI**	**AIR QLTY**
		24-Hr	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
	Parameters	**Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)**							
	Date	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**		
1	22-01-2025	106.29	59.20	7.99	7.86	214.63	10.87	101	Moderate
2	23-01-2025	86.56	47.70	8.71	8.43	315.46	14.95	89	Satisfactory
3	24-01-2025	91.04	50.66	8.04	8.36	295.80	14.54	89	Satisfactory
4	25-01-2025	83.81	46.54	7.59	8.86	306.70	12.43	87	Satisfactory
5	26-01-2025	54.55	30.23	9.30	9.13	368.42	12.81	61	Satisfactory
6	27-01-2025	57.97	32.17	8.24	9.06	339.30	13.48	56	Satisfactory
7	28-01-2025	64.54	35.59	8.22	8.34	303.72	14.15	63	Satisfactory
8	29-01-2025	87.08	48.31	8.37	8.32	305.51	14.75	82	Satisfactory

9	30-01-2025	91.89	50.80	8.37	8.34	298.39	14.45	91	Satisfactory
10	31-01-2025	84.60	47.14	8.53	8.51	321.85	13.90	88	Satisfactory
11	01-02-2025	95.12	53.23	7.95	8.15	280.08	14.04	91	Satisfactory
12	02-02-2025	89.18	49.39	8.07	8.29	283.11	14.27	92	Satisfactory
13	03-02-2025	103.51	57.91	7.92	8.36	267.58	14.43	99	Satisfactory
14	04-02-2025	71.44	39.57	7.86	8.73	308.27	13.66	84	Satisfactory
15	05-02-2025	33.13	18.16	8.07	8.37	296.34	14.46	41	Good
16	06-02-2025	36.31	19.85	7.93	8.21	268.42	13.89	37	Good
17	07-02-2025	32.87	18.10	7.94	8.54	289.92	13.16	35	Good
18	08-02-2025	38.36	21.39	7.59	8.64	308.01	12.58	39	Good
19	09-02-2025	31.42	17.43	8.17	8.74	316.66	13.87	34	Good
20	10-02-2025	96.29	56.32	6.98	11.03	554.73	20.44	78	Satisfactory
21	11-02-2025	124.02	71.67	5.38	11.51	593.49	23.06	127	Moderate
22	12-02-2025	110.87	63.64	6.53	12.58	628.20	22.99	118	Moderate
23	13-02-2025	147.42	87.72	5.35	11.72	642.75	25.15	152	Moderate
24	14-02-2025	107.04	59.95	5.93	11.75	557.53	24.43	125	Moderate
25	15-02-2025	113.76	63.81	5.90	11.61	556.44	22.69	112	Moderate
26	16-02-2025	104.21	58.24	6.10	11.87	481.72	23.40	108	Moderate
27	17-02-2025	116.62	64.52	6.21	12.42	692.31	24.63	116	Moderate
28	18-02-2025	136.70	80.84	6.08	12.28	666.49	22.86	138	Moderate
29	19-02-2025	107.64	61.52	5.68	12.10	579.02	23.23	123	Moderate
30	01-03-2025	91.59	52.21	9.01	14.71	622.55	25.39	106	Moderate
31	02-03-2025	66.21	38.01	4.49	12.43	413.80	23.35	61	Satisfactory
32	03-03-2025	67.70	37.67	6.07	11.81	330.84	23.09	67	Satisfactory
33	04-03-2025	75.95	41.72	7.36	12.76	377.76	23.07	74	Satisfactory
34	05-03-2025	73.05	40.59	7.45	12.53	389.23	23.19	73	Satisfactory

35	06-03-2025	75.06	41.31	7.27	12.57	382.99	24.99	75	Satisfactory
36	07-03-2025	69.30	38.20	7.66	12.41	397.65	25.15	71	Satisfactory
37	08-03-2025	74.25	40.69	6.64	11.37	328.98	25.44	72	Satisfactory
38	09-03-2025	85.00	46.39	6.43	11.89	301.56	24.01	83	Satisfactory
39	10-03-2025	86.80	47.66	6.25	12.54	325.40	22.58	86	Satisfactory
40	11-03-2025	75.42	41.45	7.36	12.96	390.04	24.79	78	Satisfactory
41	12-03-2025	61.09	34.13	5.79	12.25	360.19	23.28	66	Satisfactory
42	13-03-2025	58.11	32.67	5.92	12.39	331.03	21.16	57	Satisfactory
43	14-03-2025	82.62	45.74	5.81	12.66	302.62	20.57	76	Satisfactory
44	15-03-2025	75.03	41.74	5.79	12.90	289.49	19.45	79	Satisfactory
45	16-03-2025	80.96	46.98	5.76	13.08	336.69	21.73	79	Satisfactory
46	17-03-2025	54.69	30.59	6.01	12.52	309.03	22.13	61	Satisfactory
47	18-03-2025	48.85	27.53	5.86	12.72	309.34	21.01	52	Satisfactory
48	19-03-2025	43.12	24.33	5.80	13.35	345.10	20.71	43	Good
49	20-03-2025	61.30	33.89	5.45	12.22	303.91	22.44	57	Satisfactory
50	21-03-2025	53.02	29.59	6.61	13.53	353.75	24.66	57	Satisfactory
51	22-03-2025	39.51	22.83	4.64	12.12	345.30	22.53	39	Good
52	23-03-2025	46.20	26.08	6.17	12.62	351.29	22.13	44	Good
53	24-03-2025	58.28	32.93	5.75	12.92	315.44	20.26	57	Satisfactory
54	25-03-2025	57.43	32.33	6.15	12.11	299.54	21.64	58	Satisfactory
55	26-03-2025	51.78	29.41	6.04	12.32	304.83	20.77	52	Satisfactory
56	27-03-2025	45.22	25.73	5.77	12.88	315.09	19.52	48	Good
57	28-03-2025	41.36	23.64	5.79	12.98	312.37	19.38	42	Good
58	29-03-2025	57.37	32.04	6.17	11.87	273.64	23.17	52	Satisfactory
59	30-03-2025	45.72	25.76	6.35	12.48	297.57	23.09	50	Good
60	31-03-2025	49.60	27.87	5.90	12.74	299.92	21.39	46	Good

Station 9: Tushar Weighbridge, Vagus Junction									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	95.18	45.97	4.42	6.64	170.94	12.46	90	Satisfactory
2	23-01-2025	74.36	36.64	4.48	6.77	198.39	13.78	77	Satisfactory
3	24-01-2025	78.07	37.62	4.50	6.72	186.27	13.84	77	Satisfactory
4	25-01-2025	75.13	36.70	4.42	7.44	194.35	12.95	78	Satisfactory
5	26-01-2025	39.97	19.28	4.43	7.74	233.83	12.85	49	Good
6	27-01-2025	38.46	18.55	4.45	7.87	215.51	13.12	37	Good
7	28-01-2025	41.05	19.65	4.49	7.02	194.85	13.33	41	Good
8	29-01-2025	52.70	25.14	4.55	6.92	188.42	13.69	50	Good
9	30-01-2025	67.55	32.10	4.52	6.87	183.18	13.73	62	Satisfactory
10	31-01-2025	58.07	27.99	4.53	6.99	203.58	13.55	62	Satisfactory
11	01-02-2025	74.06	35.54	4.52	6.40	176.13	13.71	67	Satisfactory
12	02-02-2025	70.61	33.53	4.55	6.57	179.16	13.79	73	Satisfactory
13	03-02-2025	85.14	40.22	4.53	6.55	167.26	13.83	81	Satisfactory
14	04-02-2025	56.74	27.35	4.50	7.11	195.78	13.42	67	Satisfactory
15	05-02-2025	54.46	26.00	4.51	6.65	181.63	13.80	52	Satisfactory
16	06-02-2025	66.16	32.08	4.47	6.70	176.38	13.53	64	Satisfactory
17	07-02-2025	53.74	25.73	4.47	7.25	189.07	13.19	57	Satisfactory
18	08-02-2025	61.77	30.03	4.43	7.50	186.65	12.97	60	Satisfactory
19	09-02-2025	53.16	25.66	4.49	7.49	198.88	13.26	56	Satisfactory
20	10-02-2025	68.65	32.78	4.49	8.68	176.54	13.41	63	Satisfactory
21	11-02-2025	87.22	42.28	4.44	8.99	176.02	13.43	84	Satisfactory
22	12-02-2025	74.12	35.92	4.50	9.49	194.89	13.41	79	Satisfactory
23	13-02-2025	85.12	40.49	4.51	8.02	165.73	14.22	80	Satisfactory

24	14-02-2025	90.64	44.11	4.39	7.98	181.98	13.67	91	Satisfactory
25	15-02-2025	82.00	38.98	4.48	8.65	160.32	13.60	81	Satisfactory
26	16-02-2025	74.86	35.52	4.52	8.69	169.03	13.91	77	Satisfactory
27	17-02-2025	59.67	28.24	4.53	9.36	192.14	13.89	63	Satisfactory
28	18-02-2025	62.85	29.66	4.51	8.96	178.41	13.84	61	Satisfactory
29	19-02-2025	67.68	31.69	4.48	9.40	156.05	13.32	67	Satisfactory
30	20-02-2025	69.66	32.64	4.48	9.52	160.48	13.30	68	Satisfactory
31	01-03-2025	66.48	31.43	4.52	9.70	187.37	13.57	63	Satisfactory
32	02-03-2025	52.12	24.67	4.49	10.48	201.82	13.41	55	Satisfactory
33	03-03-2025	39.56	18.68	4.68	12.04	229.29	13.11	46	Good
34	04-03-2025	53.66	25.11	4.32	9.61	164.68	13.73	47	Good
35	05-03-2025	55.68	26.08	4.54	9.67	185.81	13.62	56	Satisfactory
36	06-03-2025	53.04	25.11	4.43	10.07	194.05	13.62	51	Satisfactory
37	07-03-2025	60.27	28.74	4.53	9.51	209.80	13.92	58	Satisfactory
38	08-03-2025	43.20	20.46	4.53	9.28	203.65	13.88	49	Good
39	09-03-2025	54.51	25.39	4.57	8.13	169.41	14.15	49	Good
40	10-03-2025	65.73	30.18	4.58	8.37	163.42	13.99	63	Satisfactory
41	11-03-2025	73.36	33.87	4.47	9.53	174.57	13.40	72	Satisfactory
42	12-03-2025	54.00	25.30	4.56	9.79	202.94	13.75	59	Satisfactory
43	13-03-2025	42.87	20.22	4.50	10.86	204.95	13.26	48	Good
44	14-03-2025	43.52	20.41	4.33	10.46	169.79	13.07	40	Good
45	15-03-2025	70.72	32.86	4.48	9.93	156.70	13.07	62	Satisfactory
46	16-03-2025	60.94	28.26	4.47	10.61	158.46	12.79	67	Satisfactory
47	17-03-2025	42.61	20.20	4.50	9.91	164.43	13.25	46	Good
48	18-03-2025	36.70	17.48	4.52	9.16	163.38	13.63	36	Good
49	19-03-2025	34.35	16.33	4.49	10.04	158.33	13.25	36	Good
50	20-03-2025	30.81	14.62	4.47	10.20	171.55	13.16	31	Good
51	21-03-2025	41.00	19.14	4.41	9.84	162.81	13.60	38	Good

52	22-03-2025	36.74	17.37	4.55	9.57	168.73	13.83	39	Good
53	23-03-2025	33.05	15.81	4.43	10.35	165.59	12.97	34	Good
54	24-03-2025	32.32	15.32	4.52	9.99	171.69	13.49	31	Good
55	25-03-2025	34.93	16.50	4.47	10.56	157.68	13.04	35	Good
56	26-03-2025	39.63	18.78	4.49	9.46	154.30	13.26	38	Good
57	27-03-2025	37.35	17.70	4.50	9.58	157.56	13.27	37	Good
58	28-03-2025	34.66	16.44	4.47	10.40	165.35	12.97	36	Good
59	29-03-2025	30.79	14.82	4.48	10.52	162.65	12.93	31	Good
60	30-03-2025	36.61	17.61	4.55	9.14	151.75	13.87	34	Good
61	31-03-2025	31.22	14.89	4.57	9.03	161.28	13.93	34	Good

Station 11: Vasu Hotel, Kotambi, Pale - Goa.									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	23-01-2025	74.27	40.58	17.69	23.80	225.96	20.14	83	Satisfactory
2	24-01-2025	80.34	43.79	18.98	23.66	198.82	20.58	85	Satisfactory
3	25-01-2025	74.19	40.26	18.09	21.56	200.92	22.82	85	Satisfactory
4	26-01-2025	43.94	23.30	25.63	21.30	236.66	21.24	78	Satisfactory
5	27-01-2025	52.07	27.55	22.03	21.72	221.52	21.68	76	Satisfactory
6	28-01-2025	60.32	31.48	20.60	22.83	201.88	22.12	74	Satisfactory
7	29-01-2025	71.00	37.26	21.74	22.60	190.71	21.36	79	Satisfactory
8	30-01-2025	89.19	47.18	21.61	22.26	184.25	22.37	91	Satisfactory
9	31-01-2025	71.71	38.84	23.83	22.42	212.95	19.02	88	Satisfactory
10	01-02-2025	63.31	34.50	19.00	23.15	183.71	20.59	75	Satisfactory
11	02-02-2025	72.60	39.26	19.56	23.32	183.81	20.78	78	Satisfactory
12	03-02-2025	130.48	71.61	17.21	24.21	410.59	22.47	128	Moderate

13	04-02-2025	63.26	33.93	18.22	22.76	221.95	21.69	87	Satisfactory
14	05-02-2025	53.97	28.95	19.85	22.88	189.65	20.73	69	Satisfactory
15	06-02-2025	56.72	30.65	18.79	22.93	180.96	20.11	69	Satisfactory
16	07-02-2025	48.23	26.01	19.75	22.42	191.23	19.02	68	Satisfactory
17	08-02-2025	56.74	30.76	19.31	22.70	197.31	19.11	70	Satisfactory
18	09-02-2025	51.18	27.62	19.76	22.37	197.06	19.42	68	Satisfactory
19	10-02-2025	61.34	32.71	21.74	18.40	185.32	16.64	70	Satisfactory
20	11-02-2025	73.36	39.24	15.79	16.40	193.17	15.16	73	Satisfactory
21	12-02-2025	68.46	37.26	12.60	19.11	194.59	18.02	71	Satisfactory
22	13-02-2025	79.93	43.48	11.49	19.46	185.13	22.69	75	Satisfactory
23	14-02-2025	80.57	43.74	11.61	19.00	184.82	20.58	83	Satisfactory
24	15-02-2025	83.97	45.39	10.59	18.71	177.26	21.70	82	Satisfactory
25	16-02-2025	84.13	45.18	11.58	18.64	181.05	21.26	86	Satisfactory
26	17-02-2025	86.22	44.96	10.87	17.98	199.63	22.33	85	Satisfactory
27	18-02-2025	89.62	46.77	9.70	18.17	184.32	21.27	89	Satisfactory
28	19-02-2025	86.25	44.84	11.48	17.52	168.12	20.52	87	Satisfactory
29	20-02-2025	92.25	48.00	11.12	17.20	170.76	22.25	89	Satisfactory
30	01-03-2025	84.30	44.56	12.91	17.91	190.10	17.64	81	Satisfactory
31	02-03-2025	76.39	40.30	12.89	17.63	196.53	16.22	80	Satisfactory
32	03-03-2025	57.85	30.20	12.91	17.09	201.53	17.54	66	Satisfactory
33	04-03-2025	57.50	29.67	12.87	17.23	170.13	15.39	59	Satisfactory
34	05-03-2025	79.76	41.22	14.78	17.70	204.57	18.67	80	Satisfactory
35	06-03-2025	77.07	40.22	13.11	18.03	191.17	20.23	79	Satisfactory
36	07-03-2025	76.79	40.05	14.92	17.59	200.05	24.23	82	Satisfactory
37	08-03-2025	64.45	33.12	16.08	17.60	207.22	21.25	75	Satisfactory
38	09-03-2025	79.55	40.64	13.03	17.98	177.04	19.93	76	Satisfactory
39	10-03-2025	93.97	47.93	13.16	17.52	169.93	21.96	91	Satisfactory
40	11-03-2025	96.01	49.65	12.28	17.45	178.32	21.10	94	Satisfactory

41	12-03-2025	78.97	41.23	15.01	18.22	208.01	20.92	85	Satisfactory
42	13-03-2025	62.12	32.43	12.33	17.48	197.45	18.93	70	Satisfactory
43	14-03-2025	59.33	30.56	11.16	18.53	177.68	18.56	61	Satisfactory
44	15-03-2025	90.72	47.36	11.12	17.88	167.93	20.64	80	Satisfactory
45	16-03-2025	79.92	41.44	11.01	17.15	167.64	22.93	87	Satisfactory
46	17-03-2025	60.40	31.22	11.86	17.34	169.91	19.34	63	Satisfactory
47	18-03-2025	55.10	28.09	12.44	18.14	171.01	16.97	56	Satisfactory
48	19-03-2025	50.63	25.80	11.15	17.42	167.22	20.10	54	Satisfactory
49	20-03-2025	47.27	24.11	11.71	17.16	174.58	19.47	51	Satisfactory
50	21-03-2025	62.30	31.72	10.79	17.72	172.66	21.34	60	Satisfactory
51	22-03-2025	55.39	28.37	12.75	18.08	172.69	20.49	60	Satisfactory
52	23-03-2025	44.71	23.09	11.69	17.82	179.74	19.71	53	Satisfactory
53	24-03-2025	47.62	24.41	12.25	17.78	179.89	19.81	52	Satisfactory
54	25-03-2025	52.14	26.73	11.28	18.27	170.21	19.93	54	Satisfactory
55	26-03-2025	55.29	28.56	12.12	18.97	167.95	20.87	55	Satisfactory
56	27-03-2025	54.53	27.98	12.24	18.61	170.08	21.16	55	Satisfactory
57	28-03-2025	49.49	25.42	11.26	18.08	171.41	22.69	54	Satisfactory
58	29-03-2025	46.96	24.17	11.15	17.89	171.24	23.40	50	Good
59	30-03-2025	57.47	29.42	12.74	18.58	168.18	17.44	54	Satisfactory
60	31-03-2025	47.25	24.03	12.33	17.70	167.34	12.66	52	Satisfactory

Station 12: Village Panchayat, Mayem, Goa									
Duration:-									
Sr. No		**Time Weighted Average (TWA)**						**AQI**	**AIR QLTY**
		24-Hr	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
	Parameters	**Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)**							
	Date	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**		
1	22-01-2025	153.65	77.86	6.72	13.49	151.53	8.33	131	Moderate
2	23-01-2025	106.15	53.62	8.93	13.57	912.22	25.02	108	Moderate

3	24-01-2025	109.53	54.81	8.29	13.53	711.25	24.58	102	Moderate
4	25-01-2025	94.78	47.66	7.80	13.70	836.43	19.08	100	Moderate
5	26-01-2025	73.71	36.78	10.72	13.75	974.86	17.81	77	Satisfactory
6	27-01-2025	70.39	35.13	9.44	13.64	860.54	20.15	70	Satisfactory
7	28-01-2025	68.34	33.82	9.25	13.61	746.56	21.63	69	Satisfactory
8	29-01-2025	90.14	44.36	9.32	13.40	751.58	23.90	83	Satisfactory
9	30-01-2025	109.21	53.42	8.80	13.43	725.89	24.76	99	Satisfactory
10	31-01-2025	106.12	52.56	6.31	13.06	614.76	16.04	107	Moderate
11	01-02-2025	115.60	56.76	8.18	13.58	757.60	23.83	104	Moderate
12	02-02-2025	98.96	48.32	8.47	13.63	571.69	23.96	104	Moderate
13	03-02-2025	125.51	61.06	7.90	13.60	666.96	25.87	109	Moderate
14	04-02-2025	80.78	39.66	8.63	13.65	818.72	22.72	95	Satisfactory
15	05-02-2025	30.30	15.40	8.39	13.63	800.67	23.00	41	Good
16	06-02-2025	32.14	16.29	7.95	13.55	568.17	24.47	37	Good
17	07-02-2025	31.93	16.33	8.06	13.60	738.16	19.48	37	Good
18	08-02-2025	28.15	14.39	8.55	13.62	815.97	17.96	36	Good
19	09-02-2025	28.99	14.89	8.86	13.48	707.53	20.33	36	Good
20	10-02-2025	43.27	22.31	5.30	12.95	529.00	14.11	40	Good
21	11-02-2025	40.82	20.87	8.59	13.52	655.06	22.22	43	Good
22	12-02-2025	39.07	20.15	9.30	13.51	848.30	21.40	44	Good
23	13-02-2025	39.64	20.29	8.71	13.42	658.55	27.91	42	Good
24	14-02-2025	38.39	19.67	8.74	13.58	652.89	24.98	42	Good
25	15-02-2025	35.66	18.22	7.50	13.66	599.41	22.57	39	Good
26	16-02-2025	37.29	18.96	7.53	13.70	603.99	23.57	39	Good
27	17-02-2025	35.09	17.93	8.81	13.79	706.86	24.01	41	Good
28	18-02-2025	35.04	17.84	9.22	13.68	727.81	24.54	41	Good
29	19-02-2025	33.30	16.69	7.54	13.76	593.32	21.13	37	Good
30	20-02-2025	34.36	17.14	7.05	13.79	616.00	18.78	36	Good

31	01-03-2025	34.73	17.63	9.74	13.77	857.14	22.45	40	Good
32	02-03-2025	32.82	16.70	9.88	13.76	903.95	20.93	41	Good
33	03-03-2025	24.11	12.30	9.76	13.86	868.92	19.45	37	Good
34	04-03-2025	23.01	11.63	7.83	13.65	475.52	22.01	34	Good
35	05-03-2025	30.88	15.58	8.82	13.80	851.82	23.04	37	Good
36	06-03-2025	29.23	14.77	10.30	13.93	742.31	21.02	40	Good
37	07-03-2025	32.28	16.49	9.43	13.79	995.07	25.46	40	Good
38	08-03-2025	27.18	13.90	10.84	13.75	926.25	25.66	40	Good
39	09-03-2025	26.16	13.12	8.39	13.57	630.98	25.04	35	Good
40	10-03-2025	35.77	17.77	8.16	13.68	621.30	26.20	38	Good
41	11-03-2025	31.71	15.89	10.96	14.27	754.94	29.39	42	Good
42	12-03-2025	32.48	16.36	12.23	13.87	1010.64	26.11	46	Good
43	13-03-2025	21.97	11.18	12.48	14.36	1005.05	25.04	43	Good
44	14-03-2025	20.41	10.26	7.49	13.82	704.29	17.71	36	Good
45	15-03-2025	33.56	16.56	7.30	13.96	527.05	18.51	36	Good
46	16-03-2025	29.60	14.66	7.27	13.78	580.57	15.60	34	Good
47	17-03-2025	23.27	11.76	7.45	13.88	667.15	17.95	33	Good
48	18-03-2025	18.23	9.34	7.99	13.82	582.31	21.99	33	Good
49	19-03-2025	17.29	8.83	7.30	13.84	601.08	19.97	34	Good
50	20-03-2025	16.37	8.32	7.52	13.99	868.70	18.13	33	Good
51	21-03-2025	22.20	11.11	6.56	13.64	671.48	19.58	33	Good
52	22-03-2025	19.15	9.73	8.40	13.80	663.19	23.47	34	Good
53	23-03-2025	16.80	8.54	6.90	13.66	782.09	15.84	34	Good
54	24-03-2025	17.93	9.05	7.89	13.78	653.75	19.47	34	Good
55	25-03-2025	17.09	8.61	7.52	13.84	656.58	16.49	34	Good
56	26-03-2025	17.09	8.68	8.16	13.57	567.29	20.43	33	Good
57	27-03-2025	17.50	8.82	8.04	13.51	584.14	17.55	32	Good
58	28-03-2025	14.55	7.34	9.29	14.23	819.16	18.06	36	Good

59	29-03-2025	12.59	6.51	7.76	13.88	677.22	15.88	35	Good
60	30-03-2025	16.89	8.75	7.98	13.70	454.70	23.94	33	Good
61	31-03-2025	13.85	7.17	9.00	13.95	772.71	24.74	33	Good

Station 13: Village Panchayat, Pissurlem.									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	61.69	31.89	4.77	13.91	228.57	8.99	69	Satisfactory
2	23-01-2025	70.05	35.24	5.61	13.86	239.28	28.40	71	Satisfactory
3	24-01-2025	76.70	38.35	5.01	13.88	231.13	27.11	74	Satisfactory
4	25-01-2025	59.44	29.88	5.06	13.71	240.04	18.50	66	Satisfactory
5	26-01-2025	41.75	20.64	6.56	13.52	262.29	17.40	45	Good
6	27-01-2025	47.05	23.05	5.88	13.56	245.90	20.04	45	Good
7	28-01-2025	47.21	23.28	5.45	13.74	232.73	24.83	48	Good
8	29-01-2025	55.69	27.47	5.47	13.77	232.26	28.79	53	Satisfactory
9	30-01-2025	53.71	27.22	5.20	13.87	231.62	26.97	55	Satisfactory
10	31-01-2025	44.23	22.58	5.53	13.79	236.14	21.31	46	Good
11	01-02-2025	49.78	25.27	5.32	13.91	229.48	31.04	47	Good
12	02-02-2025	56.75	28.55	5.44	13.92	236.04	32.72	56	Satisfactory
13	03-02-2025	59.22	29.88	4.93	13.88	231.50	28.77	58	Satisfactory
14	04-02-2025	40.24	20.23	5.16	13.72	240.24	21.93	46	Good
15	05-02-2025	46.82	23.72	5.27	13.90	234.33	26.63	43	Good
16	06-02-2025	48.69	24.37	5.04	13.84	228.85	26.43	49	Good
17	07-02-2025	47.69	23.85	5.20	13.82	235.47	18.36	47	Good
18	08-02-2025	47.99	24.18	5.27	13.75	233.36	18.36	48	Good
19	09-02-2025	45.99	23.14	5.22	13.74	234.63	22.05	47	Good

20	10-02-2025	67.81	34.31	4.57	13.98	228.60	22.58	61	Satisfactory
21	11-02-2025	64.86	32.95	5.16	13.97	229.06	24.25	67	Satisfactory
22	12-02-2025	53.80	27.22	5.21	13.86	232.53	20.81	56	Satisfactory
23	13-02-2025	75.30	38.01	5.16	14.07	229.49	35.50	68	Satisfactory
24	14-02-2025	72.11	36.53	5.30	14.06	230.52	29.06	75	Satisfactory
25	15-02-2025	71.70	36.19	5.04	14.05	228.74	28.01	70	Satisfactory
26	16-02-2025	67.37	33.74	5.11	13.96	231.81	29.11	69	Satisfactory
27	17-02-2025	58.34	28.98	5.62	13.76	240.61	25.77	59	Satisfactory
28	18-02-2025	59.56	29.75	5.55	13.91	233.02	26.82	59	Satisfactory
29	19-02-2025	68.54	34.05	4.73	13.94	228.57	26.01	66	Satisfactory
30	20-02-2025	64.65	32.14	4.63	13.84	228.57	21.78	66	Satisfactory
39	01-03-2025	59.16	29.52	5.84	13.77	232.44	27.98	57	Satisfactory
40	02-03-2025	57.62	28.80	5.88	13.69	236.66	22.26	59	Satisfactory
41	03-03-2025	43.26	21.35	5.71	13.61	237.88	19.29	47	Good
42	04-03-2025	52.65	25.63	5.19	13.92	228.77	31.50	49	Good
43	05-03-2025	46.44	22.74	8.45	13.51	256.56	28.22	50	Good
44	06-03-2025	67.41	32.26	6.11	13.83	236.63	33.51	59	Satisfactory
45	07-03-2025	60.78	29.52	6.43	13.81	244.54	32.75	64	Satisfactory
46	08-03-2025	50.48	24.42	6.75	13.68	247.80	30.76	52	Satisfactory
47	09-03-2025	60.28	28.74	5.54	14.08	228.68	38.45	56	Satisfactory
48	10-03-2025	75.14	35.53	5.17	14.13	228.57	36.76	71	Satisfactory
49	11-03-2025	78.94	38.11	5.90	13.83	233.67	24.50	79	Satisfactory
50	12-03-2025	70.70	34.62	6.59	13.84	235.13	30.16	73	Satisfactory
51	13-03-2025	52.94	25.58	5.86	13.72	238.35	21.90	58	Satisfactory
52	14-03-2025	52.72	25.07	4.98	13.96	230.31	20.84	51	Satisfactory
53	15-03-2025	81.77	38.88	4.58	13.88	228.57	21.37	72	Satisfactory
54	16-03-2025	73.15	34.66	4.42	13.87	228.64	16.90	80	Satisfactory
55	17-03-2025	55.35	26.30	4.58	13.84	228.57	22.97	59	Satisfactory

56	18-03-2025	45.97	21.68	5.24	13.92	228.57	29.87	48	Good
57	19-03-2025	44.23	20.68	4.15	13.96	228.57	23.90	44	Good
58	20-03-2025	41.23	19.21	4.73	13.78	228.62	18.48	41	Good
59	21-03-2025	52.86	24.71	4.29	13.93	228.58	24.84	49	Good
60	22-03-2025	51.27	24.31	5.01	13.92	228.64	24.63	52	Satisfactory
61	23-03-2025	40.23	19.44	5.16	13.85	229.39	16.39	44	Good
62	24-03-2025	40.34	19.36	5.11	13.89	229.50	21.97	39	Good
63	25-03-2025	43.51	20.67	4.86	13.82	228.57	18.00	43	Good
64	26-03-2025	40.29	19.67	4.85	14.11	228.57	22.29	42	Good
65	27-03-2025	41.20	20.14	4.68	14.19	228.58	20.85	39	Good
66	28-03-2025	38.97	19.12	4.56	14.00	228.59	12.87	40	Good
67	29-03-2025	32.66	16.19	4.63	13.98	228.58	15.42	35	Good
68	30-03-2025	40.22	19.71	4.67	14.06	228.57	27.22	37	Good
69	31-03-2025	39.32	19.05	5.04	13.88	228.57	24.92	41	Good

Station 14: IHM Porvorim.									
Duration:-									
Sr. No		**Time Weighted Average (TWA)**						**AQI**	**AIR QLTY**
		24-Hr	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
	Parameters	**Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)**							
	Date	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**		
1	22-01-2025	112.61	67.13	7.06	12.30	201.65	12.04	123	Moderate
2	23-01-2025	100.55	58.35	8.25	12.97	273.97	10.74	107	Moderate
3	24-01-2025	112.76	67.19	7.05	13.05	249.75	10.34	120	Moderate
4	25-01-2025	103.37	60.02	6.61	12.97	285.98	12.81	115	Moderate
5	26-01-2025	71.64	41.20	9.04	13.24	305.42	14.00	80	Satisfactory
6	27-01-2025	67.65	39.00	8.75	13.18	311.86	13.25	68	Satisfactory
7	28-01-2025	71.80	40.86	8.35	13.02	264.29	13.56	70	Satisfactory

8	29-01-2025	90.96	52.66	8.46	12.48	239.87	12.19	87	Satisfactory
9	30-01-2025	115.84	69.46	8.29	12.98	234.49	11.52	121	Moderate
10	31-01-2025	95.91	55.28	9.97	12.69	301.40	11.08	107	Moderate
11	01-02-2025	118.98	71.62	6.20	12.65	196.87	10.16	126	Moderate
12	02-02-2025	102.02	59.98	6.05	12.70	216.52	10.50	125	Moderate
13	03-02-2025	112.71	68.87	5.60	12.83	182.05	6.34	118	Moderate
14	04-02-2025	83.28	50.28	6.88	12.92	218.15	9.41	103	Moderate
15	05-02-2025	21.13	17.32	6.53	12.71	233.31	11.27	38	Good
16	06-02-2025	24.48	20.47	5.12	12.60	163.50	9.57	33	Good
17	07-02-2025	24.28	20.51	5.57	12.53	188.36	12.79	34	Good
18	08-02-2025	22.89	18.85	6.44	12.70	195.56	13.57	33	Good
19	09-02-2025	23.25	19.07	6.20	12.80	227.42	12.64	34	Good
20	10-02-2025	27.23	23.33	6.23	12.73	178.21	13.26	37	Good
21	11-02-2025	29.38	25.63	6.53	12.68	183.32	11.97	42	Good
22	12-02-2025	28.63	24.87	7.14	12.55	188.61	11.45	42	Good
23	13-02-2025	26.57	22.33	6.21	12.51	166.54	10.05	38	Good
24	14-02-2025	31.20	27.34	6.01	12.31	147.29	11.25	44	Good
25	15-02-2025	29.39	25.27	4.26	12.70	171.63	13.61	43	Good
26	16-02-2025	29.90	25.66	4.28	12.39	154.00	10.58	42	Good
27	17-02-2025	25.33	21.53	5.74	12.35	182.46	10.94	37	Good
28	18-02-2025	25.67	21.80	5.67	11.96	156.36	10.69	35	Good
29	19-02-2025	25.80	21.99	3.54	11.82	128.89	13.09	37	Good
30	20-02-2025	26.50	23.31	3.76	12.31	147.22	12.91	38	Good
31	01-03-2025	25.14	21.30	6.71	11.65	197.02	13.94	35	Good
32	02-03-2025	22.82	18.69	7.54	11.66	196.40	13.90	34	Good
33	03-03-2025	19.03	15.60	7.37	11.95	212.88	15.11	31	Good
34	04-03-2025	21.20	17.18	4.95	11.46	111.67	13.39	29	Good

35	05-03-2025	25.16	21.40	5.23	10.79	198.78	10.62	35	Good
36	06-03-2025	22.13	18.46	7.00	11.47	135.27	13.71	34	Good
37	07-03-2025	22.45	18.69	5.57	11.79	151.43	10.64	33	Good
38	08-03-2025	20.48	16.99	5.91	10.90	165.95	11.50	31	Good
39	09-03-2025	21.95	18.26	4.49	10.92	103.56	9.70	30	Good
40	10-03-2025	25.61	22.09	4.43	11.54	101.54	10.33	35	Good
41	11-03-2025	26.54	23.50	4.25	11.80	113.72	13.19	38	Good
42	12-03-2025	21.89	18.55	8.35	12.35	263.25	11.07	35	Good
43	13-03-2025	19.66	16.09	3.35	11.29	193.15	15.80	29	Good
44	14-03-2025	17.60	14.74	3.91	11.99	139.38	15.90	27	Good
45	15-03-2025	24.17	19.97	3.96	12.34	126.01	14.69	31	Good
46	16-03-2025	20.42	17.32	3.27	12.11	137.53	16.32	31	Good
47	17-03-2025	15.35	12.95	3.93	12.23	138.18	15.60	28	Good
48	18-03-2025	14.29	12.26	3.46	11.97	162.23	13.43	28	Good
49	19-03-2025	12.55	10.93	3.47	11.86	155.94	14.20	28	Good
50	20-03-2025	12.66	10.80	4.23	11.95	162.62	14.44	28	Good
51	21-03-2025	16.15	13.62	2.91	11.59	105.51	13.88	27	Good
52	22-03-2025	13.42	11.66	5.19	11.75	168.54	13.58	28	Good
53	23-03-2025	12.25	10.57	3.88	11.76	163.60	16.09	28	Good
54	24-03-2025	13.81	11.81	4.10	11.73	128.86	14.64	28	Good
55	25-03-2025	12.92	11.45	4.07	12.07	159.21	16.69	28	Good
56	26-03-2025	13.27	11.74	3.96	11.77	142.11	15.24	27	Good
57	27-03-2025	14.03	12.13	3.98	11.54	141.68	15.71	26	Good
58	28-03-2025	10.26	9.39	4.13	12.09	187.74	16.64	28	Good
59	29-03-2025	9.98	9.07	4.11	11.99	169.06	16.42	28	Good
60	30-03-2025	15.25	12.84	3.97	11.30	100.29	11.92	26	Good
61	31-03-2025	11.16	9.84	4.31	11.54	138.21	10.79	26	Good

Station 15: Ravindra House, Haldanwadi Mayem, Nearby Vittal Temple (Chokhla Mine).									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	26-02-2025	53.57	30.68	0.70	9.59	253.20	5.83	53	Satisfactory
2	27-02-2025	44.83	26.15	2.98	8.84	227.18	18.39	46	Good
3	28-02-2025	54.35	31.56	2.91	9.29	231.41	17.51	52	Satisfactory
4	01-03-2025	60.86	35.85	2.98	9.40	211.74	16.44	58	Satisfactory
5	02-03-2025	59.79	35.08	3.52	9.41	197.94	16.53	60	Satisfactory
6	03-03-2025	48.97	28.30	2.93	9.09	187.92	10.65	51	Satisfactory
7	04-03-2025	50.36	28.93	2.37	9.41	178.53	18.65	49	Good
8	05-03-2025	65.02	37.92	2.86	9.38	173.47	24.28	60	Satisfactory
9	06-03-2025	57.93	33.62	4.16	9.29	169.54	15.47	60	Satisfactory
10	07-03-2025	53.00	30.51	3.83	9.27	171.63	24.19	53	Satisfactory
11	08-03-2025	48.08	27.38	4.56	9.30	163.45	22.91	49	Good
12	09-03-2025	58.00	33.60	2.27	9.43	138.30	33.02	54	Satisfactory
13	10-03-2025	70.32	41.28	2.07	9.41	126.35	25.68	67	Satisfactory
14	11-03-2025	67.39	39.98	3.25	9.23	148.85	17.75	68	Satisfactory
15	12-03-2025	61.76	36.59	4.07	9.22	157.03	21.47	62	Satisfactory
16	13-03-2025	46.78	27.30	3.75	9.25	168.32	16.95	51	Satisfactory
17	14-03-2025	42.26	24.69	2.46	9.28	162.78	11.30	42	Good
18	15-03-2025	61.46	36.13	1.76	9.31	127.55	13.34	56	Satisfactory
19	16-03-2025	70.01	38.27	1.70	9.28	142.44	9.74	68	Satisfactory
20	17-03-2025	55.63	31.16	1.73	9.33	117.78	14.39	60	Satisfactory
21	18-03-2025	45.70	25.86	1.33	9.31	141.59	18.96	47	Good
22	19-03-2025	39.74	22.84	1.79	9.21	139.98	15.23	41	Good

23	20-03-2025	34.33	19.82	2.01	9.21	151.96	16.54	34	Good
24	21-03-2025	46.53	26.61	2.13	9.25	126.61	18.68	43	Good
25	22-03-2025	41.72	24.20	2.08	9.25	137.59	21.31	43	Good
26	23-03-2025	32.65	19.05	2.95	9.34	139.32	12.94	34	Good
27	24-03-2025	40.28	23.19	2.36	9.32	123.47	16.34	37	Good
28	25-03-2025	36.60	21.27	2.33	9.29	142.84	12.67	38	Good
29	26-03-2025	36.15	21.32	1.93	9.56	127.66	18.95	36	Good
30	27-03-2025	35.00	20.64	1.96	9.50	137.21	14.24	35	Good
31	28-03-2025	25.56	15.25	2.52	9.26	155.76	11.66	27	Good
32	29-03-2025	25.61	15.14	2.19	9.27	138.86	10.78	26	Good
33	30-03-2025	40.53	23.12	1.46	9.30	111.91	26.92	37	Good
34	31-03-2025	36.08	20.64	1.39	9.18	124.49	27.16	38	Good

SOUTH GOA

Station 16: Village Panchayat Uguem- Goverment Office.									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	80.14	41.21	7.99	14.75	197.81	13.67	81	Satisfactory
2	23-01-2025	69.12	34.58	7.31	15.19	212.38	18.83	74	Satisfactory
3	24-01-2025	76.05	37.96	7.24	14.93	191.80	19.09	73	Satisfactory
4	25-01-2025	64.68	32.26	6.91	14.55	219.78	18.54	68	Satisfactory
5	26-01-2025	47.84	23.24	7.16	14.66	252.52	18.60	52	Satisfactory
6	27-01-2025	46.87	22.79	7.46	14.69	235.88	18.50	46	Good
7	28-01-2025	51.14	24.73	7.68	14.71	214.34	20.37	50	Good
8	29-01-2025	60.51	29.39	8.00	14.66	210.96	24.33	57	Satisfactory

9	30-01-2025	83.78	41.23	7.48	14.78	187.60	25.49	78	Satisfactory
10	31-01-2025	73.11	36.35	7.65	14.48	219.01	18.70	76	Satisfactory
11	01-02-2025	75.95	37.73	7.80	14.34	192.38	20.49	74	Satisfactory
12	02-02-2025	92.41	45.83	7.81	14.30	194.31	22.01	87	Satisfactory
13	03-02-2025	82.99	40.82	7.75	14.13	185.71	21.11	86	Satisfactory
14	04-02-2025	65.23	31.76	7.73	14.10	213.17	21.20	69	Satisfactory
15	05-02-2025	64.92	31.44	7.95	14.28	209.45	22.10	63	Satisfactory
16	06-02-2025	64.52	31.10	7.77	14.22	194.85	20.51	65	Satisfactory
17	07-02-2025	65.08	31.54	7.58	14.09	208.65	19.44	65	Satisfactory
18	08-02-2025	69.85	34.24	7.80	14.12	222.85	16.17	68	Satisfactory
19	09-02-2025	65.69	31.98	7.66	14.18	215.85	20.27	66	Satisfactory
20	10-02-2025	74.52	36.84	5.89	14.14	205.74	19.73	71	Satisfactory
21	11-02-2025	86.61	43.16	5.06	14.10	201.33	19.65	83	Satisfactory
22	12-02-2025	72.75	36.00	5.10	14.22	211.69	19.06	77	Satisfactory
23	13-02-2025	86.93	42.80	5.16	14.27	186.15	23.42	80	Satisfactory
24	14-02-2025	86.26	42.41	5.13	14.28	178.30	22.17	88	Satisfactory
25	15-02-2025	80.05	39.25	5.09	14.26	175.48	21.24	80	Satisfactory
26	16-02-2025	84.05	41.08	5.09	13.97	176.64	22.03	82	Satisfactory
27	17-02-2025	77.54	37.49	5.16	13.93	200.24	22.11	79	Satisfactory
28	18-02-2025	90.02	43.69	5.09	14.31	237.09	21.51	86	Satisfactory
29	19-02-2025	80.79	39.14	5.08	14.11	176.40	19.96	84	Satisfactory
30	20-02-2025	76.73	36.85	4.98	13.88	192.01	18.70	77	Satisfactory
31	01-03-2025	88.64	43.51	5.23	14.25	221.66	20.84	83	Satisfactory
32	02-03-2025	75.13	36.84	5.24	14.40	202.72	19.83	80	Satisfactory
33	03-03-2025	58.38	28.35	5.14	14.17	220.04	19.42	63	Satisfactory
34	04-03-2025	63.13	30.51	5.17	14.17	194.09	20.20	60	Satisfactory

35	05-03-2025	67.43	32.87	5.02	14.02	196.86	21.47	67	Satisfactory
36	06-03-2025	63.13	30.60	5.14	14.01	206.03	21.95	63	Satisfactory
37	07-03-2025	67.30	32.65	5.19	13.97	195.90	22.22	66	Satisfactory
38	08-03-2025	79.78	39.00	5.26	14.04	396.53	22.17	75	Satisfactory
39	09-03-2025	62.12	29.56	5.46	14.16	229.08	23.00	69	Satisfactory
40	10-03-2025	74.99	35.44	5.35	13.98	180.61	22.22	70	Satisfactory
41	11-03-2025	102.22	49.20	5.09	14.01	313.19	20.14	93	Satisfactory
42	12-03-2025	84.10	40.88	5.31	14.07	254.67	21.89	90	Satisfactory
43	13-03-2025	59.16	28.50	5.11	14.24	212.67	19.63	66	Satisfactory
44	14-03-2025	53.42	25.45	5.06	13.92	212.30	17.74	53	Satisfactory
45	15-03-2025	74.93	36.51	5.01	13.66	190.12	18.22	68	Satisfactory
46	16-03-2025	72.86	35.17	4.96	13.64	180.57	16.79	76	Satisfactory
47	17-03-2025	53.71	25.80	4.94	13.60	207.09	17.90	58	Satisfactory
48	18-03-2025	47.42	22.50	5.11	13.38	212.77	21.39	48	Good
49	19-03-2025	48.49	23.06	4.83	13.54	197.34	20.61	48	Good
50	20-03-2025	42.49	20.26	4.80	13.56	213.58	17.29	43	Good
51	21-03-2025	54.32	25.64	4.88	13.85	194.62	21.43	50	Good
52	22-03-2025	54.70	26.04	5.21	13.87	189.89	21.92	55	Satisfactory
53	23-03-2025	44.22	21.24	5.15	13.89	210.16	19.18	47	Good
54	24-03-2025	45.62	21.78	5.33	13.76	219.03	21.43	43	Good
55	25-03-2025	51.53	24.56	5.27	13.72	211.17	21.27	50	Good
56	26-03-2025	49.54	23.75	5.30	14.11	200.87	23.26	49	Good
57	27-03-2025	50.54	24.10	5.13	13.87	197.13	19.29	50	Good
58	28-03-2025	43.97	21.00	4.95	13.64	217.90	17.66	46	Good
59	29-03-2025	41.74	20.04	4.98	13.64	213.15	18.12	42	Good
60	30-03-2025	50.11	23.81	5.13	13.49	193.09	21.80	47	Good
61	31-03-2025	45.64	21.68	4.97	13.47	199.54	20.58	48	Good

Station 17: Tilamol Junction, Quepem-Curchorem Road.									
Duration:-									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	88.22	50.16	2.00	5.89	284.49	28.90	88	Satisfactory
2	23-01-2025	79.61	45.81	2.53	9.73	296.70	25.95	84	Satisfactory
3	24-01-2025	78.67	44.74	2.68	8.60	246.11	28.30	80	Satisfactory
4	25-01-2025	66.31	38.39	2.61	10.64	246.64	27.79	69	Satisfactory
5	26-01-2025	44.52	26.16	2.74	10.69	258.35	28.17	50	Satisfactory
6	27-01-2025	40.38	23.92	2.53	10.30	267.56	27.05	42	Good
7	28-01-2025	52.13	30.17	2.54	14.56	257.44	26.36	56	Satisfactory
8	29-01-2025	73.69	41.73	2.28	11.76	238.65	26.14	71	Satisfactory
9	30-01-2025	112.22	64.57	2.13	9.55	246.32	25.75	110	Moderate
10	31-01-2025	91.60	52.32	2.23	8.19	276.88	27.07	97	Satisfactory
11	01-02-2025	94.98	54.07	2.02	8.23	254.76	26.08	94	Satisfactory
12	02-02-2025	106.58	60.93	2.04	8.03	240.81	24.98	106	Moderate
13	03-02-2025	114.51	65.71	2.01	8.13	234.88	24.22	118	Moderate
14	04-02-2025	74.65	42.16	2.10	8.32	261.91	26.01	91	Satisfactory
15	05-02-2025	31.94	18.65	1.91	7.77	241.75	25.79	39	Good
16	06-02-2025	30.24	17.35	1.99	8.16	236.73	26.10	31	Good
17	07-02-2025	30.17	17.44	2.05	8.49	247.75	27.32	30	Good
18	08-02-2025	29.62	17.24	2.18	8.76	253.92	28.27	29	Good
19	09-02-2025	29.03	16.79	2.11	8.82	256.51	27.34	29	Good
20	10-02-2025	76.17	43.34	4.86	11.85	232.60	27.55	60	Satisfactory
21	11-02-2025	102.22	58.49	5.93	12.64	236.04	26.98	99	Satisfactory
22	12-02-2025	92.77	52.78	5.83	12.38	242.18	27.15	97	Satisfactory

23	13-02-2025	105.60	60.62	5.71	12.03	221.07	25.50	102	Moderate
24	14-02-2025	103.94	59.36	5.71	11.46	214.14	25.76	109	Moderate
25	15-02-2025	97.90	55.35	6.11	14.44	556.90	27.06	100	Satisfactory
26	16-02-2025	99.71	56.53	5.60	12.29	216.16	25.88	99	Satisfactory
27	17-02-2025	94.30	53.03	5.97	12.39	236.14	25.56	96	Satisfactory
28	18-02-2025	92.71	52.23	5.76	11.50	224.23	26.13	92	Satisfactory
29	19-02-2025	94.18	52.61	5.32	11.76	210.23	27.30	95	Satisfactory
30	20-02-2025	94.76	52.94	7.28	12.73	296.27	27.48	94	Satisfactory
31	01-03-2025	93.28	52.26	5.62	10.66	216.60	27.71	93	Satisfactory
32	02-03-2025	91.40	51.23	5.81	10.03	212.47	27.84	92	Satisfactory
33	03-03-2025	73.65	41.10	5.86	11.03	225.59	28.25	78	Satisfactory
34	04-03-2025	81.12	44.89	5.47	11.26	202.76	28.48	77	Satisfactory
35	05-03-2025	95.03	53.42	5.80	11.44	199.08	28.46	95	Satisfactory
36	06-03-2025	84.17	46.81	6.63	11.76	215.19	27.56	84	Satisfactory
37	07-03-2025	87.75	48.91	6.22	11.06	207.51	27.25	87	Satisfactory
38	08-03-2025	78.99	43.53	6.70	10.61	212.69	27.12	81	Satisfactory
39	09-03-2025	77.58	42.50	5.83	11.00	204.17	26.96	77	Satisfactory
40	10-03-2025	96.36	53.44	5.44	11.38	184.97	26.49	91	Satisfactory
41	11-03-2025	104.07	58.43	5.55	11.18	189.96	27.89	103	Moderate
42	12-03-2025	95.23	53.29	6.20	10.49	213.59	26.93	99	Satisfactory
43	13-03-2025	76.91	42.98	5.75	10.94	205.71	28.42	83	Satisfactory
44	14-03-2025	73.62	40.79	5.42	11.66	194.57	29.51	73	Satisfactory
45	15-03-2025	96.57	54.65	5.32	13.22	191.99	29.32	89	Satisfactory
46	16-03-2025	93.44	52.23	5.29	12.00	184.26	29.49	100	Satisfactory
47	17-03-2025	70.37	39.31	5.29	11.96	194.81	28.32	75	Satisfactory
48	18-03-2025	66.23	36.47	5.29	11.75	196.63	27.79	64	Satisfactory
49	19-03-2025	65.82	36.33	5.33	11.84	193.50	27.89	68	Satisfactory
50	20-03-2025	57.48	31.79	5.30	12.08	202.29	29.03	57	Satisfactory

51	21-03-2025	71.49	39.05	5.31	11.95	198.88	27.77	67	Satisfactory
52	22-03-2025	69.70	38.44	5.38	10.56	193.30	26.77	72	Satisfactory
53	23-03-2025	60.35	33.70	5.66	10.90	205.51	28.54	63	Satisfactory
54	24-03-2025	61.65	34.20	5.47	11.22	202.31	27.36	59	Satisfactory
55	25-03-2025	66.65	36.81	5.44	10.87	186.86	28.40	66	Satisfactory
56	26-03-2025	73.97	41.12	5.32	10.04	182.17	27.84	72	Satisfactory
57	27-03-2025	67.56	37.45	5.35	10.87	189.03	28.51	69	Satisfactory
58	28-03-2025	60.48	33.57	5.34	11.24	191.97	28.80	63	Satisfactory
59	29-03-2025	55.38	30.99	5.36	11.64	195.61	29.33	56	Satisfactory
60	30-03-2025	70.20	38.46	5.29	12.01	181.10	27.33	65	Satisfactory
61	31-03-2025	54.59	30.28	5.29	12.78	198.72	26.94	60	Satisfactory

Station 18: Somnath School, Codli									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	111.74	64.05	5.36	18.94	214.29	3.40	101	Satisfactory
2	22-01-2025	84.72	47.25	6.92	20.61	223.62	12.03	87	Satisfactory
3	23-01-2025	96.15	53.53	5.84	20.31	214.75	11.34	92	Satisfactory
4	24-01-2025	77.18	42.89	7.59	20.37	232.93	9.20	83	Satisfactory
5	25-01-2025	53.68	29.20	9.20	21.27	246.28	9.82	61	Satisfactory
6	26-01-2025	51.65	27.89	10.15	22.07	244.94	12.73	58	Satisfactory
7	27-01-2025	115.09	64.81	5.85	22.16	296.72	10.96	106	Satisfactory
8	28-01-2025	123.53	67.28	6.82	20.91	268.14	11.77	126	Moderate
9	29-01-2025	104.28	56.46	6.80	20.70	243.22	13.07	107	Moderate
10	30-01-2025	103.99	57.42	7.93	20.49	267.44	10.62	107	Moderate
11	31-01-2025	98.93	54.38	6.35	20.04	220.45	12.47	97	Moderate

12	01-02-2025	106.93	58.81	6.47	19.94	221.44	13.38	104	Satisfactory
13	02-02-2025	111.89	61.12	5.96	19.70	214.52	12.92	113	Moderate
14	03-02-2025	79.75	43.88	7.16	19.98	232.99	11.91	91	Moderate
15	04-02-2025	38.36	23.32	6.42	20.04	219.75	12.43	49	Satisfactory
16	05-02-2025	42.18	25.64	5.94	19.73	214.75	11.82	47	Good
17	06-02-2025	38.67	23.62	6.77	19.65	223.41	9.86	47	Good
18	07-02-2025	39.97	24.69	7.39	19.74	223.02	9.49	47	Good
19	08-02-2025	39.41	24.26	7.13	19.93	223.55	10.69	47	Good
20	09-02-2025	57.39	34.42	6.21	16.06	217.23	10.93	53	Good
21	10-02-2025	70.78	42.77	5.78	14.54	218.40	11.23	68	Satisfactory
22	11-02-2025	63.40	38.10	5.87	14.55	219.30	10.53	67	Satisfactory
23	12-02-2025	74.10	44.06	5.75	14.52	217.78	14.24	69	Satisfactory
24	13-02-2025	67.23	40.03	5.67	14.33	217.97	12.84	72	Satisfactory
25	14-02-2025	62.11	36.84	5.46	14.13	214.32	12.48	62	Satisfactory
26	15-02-2025	65.68	39.04	5.66	13.92	215.13	13.42	64	Satisfactory
27	16-02-2025	65.31	37.88	6.90	14.02	224.74	14.41	64	Satisfactory
28	17-02-2025	68.07	39.60	6.64	14.13	223.27	13.12	67	Satisfactory
29	18-02-2025	64.36	37.70	5.20	13.71	214.84	11.68	67	Satisfactory
30	19-02-2025	61.73	35.94	4.83	13.32	214.29	10.96	61	Satisfactory
31	01-03-2025	58.73	34.45	7.63	13.66	228.99	11.66	59	Satisfactory
32	02-03-2025	55.16	32.63	7.08	13.56	232.05	10.68	57	Satisfactory
33	03-03-2025	45.47	26.08	6.68	13.66	218.03	10.51	46	Good
34	04-03-2025	51.48	30.08	8.36	13.22	233.39	11.05	51	Satisfactory
35	05-03-2025	51.23	29.89	8.29	13.19	220.83	12.61	52	Satisfactory
36	06-03-2025	52.20	30.35	8.24	13.20	230.09	13.47	52	Satisfactory
37	07-03-2025	55.13	31.87	8.35	13.16	234.92	13.45	57	Satisfactory
38	08-03-2025	49.88	28.61	6.99	13.21	219.01	12.96	51	Satisfactory
39	09-03-2025	54.36	30.81	5.45	12.86	214.29	13.40	52	Satisfactory
40	10-03-2025	62.62	35.44	6.95	12.73	218.79	13.02	61	Satisfactory

41	11-03-2025	65.49	37.77	8.22	12.88	229.39	15.05	66	Satisfactory
42	12-03-2025	50.38	29.20	7.67	13.20	228.23	10.83	53	Satisfactory
43	13-03-2025	40.87	23.31	6.01	12.90	217.19	8.90	42	Good
44	14-03-2025	48.33	27.64	5.05	12.42	214.85	9.41	45	Good
45	15-03-2025	67.98	40.07	4.92	12.29	214.29	9.22	64	Satisfactory
46	16-03-2025	46.13	26.47	4.98	12.02	214.38	10.06	50	Good
47	17-03-2025	38.22	21.60	4.85	12.14	214.29	12.20	40	Good
48	18-03-2025	43.10	24.27	4.88	12.02	214.30	12.11	42	Good
49	19-03-2025	31.12	17.53	5.10	12.02	214.90	10.52	34	Good
50	20-03-2025	37.46	21.11	4.43	12.29	214.75	11.70	35	Good
51	21-03-2025	47.49	26.74	5.69	12.14	214.41	14.09	46	Good
52	22-03-2025	38.33	21.87	5.61	12.29	218.21	11.95	41	Good
53	23-03-2025	32.83	18.67	5.59	12.15	214.73	12.37	34	Good
54	24-03-2025	39.43	22.19	5.32	12.10	214.29	11.30	38	Good
55	25-03-2025	42.11	23.81	4.96	11.91	214.29	10.31	41	Good
56	26-03-2025	39.49	22.58	5.62	12.18	214.29	12.27	40	Good
57	27-03-2025	37.33	21.13	5.15	11.89	214.29	10.07	38	Good
58	28-03-2025	31.83	18.10	5.02	11.88	214.29	9.35	33	Good
59	29-03-2025	34.69	19.62	4.68	11.94	214.29	10.67	33	Good
60	30-03-2025	40.05	22.53	5.49	11.79	214.29	16.45	39	Good
61	31-03-2025	30.55	17.07	5.32	11.71	214.29	15.28	32	Good

Station 19: Ramnath B Naik House, Ambaulim, Gudumol, Quepem									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	97.52	50.84	9.64	13.61	233.33	10.73	98	Satisfactory
2	22-01-2025	75.76	39.01	9.68	13.48	389.15	16.21	83	Satisfactory

3	23-01-2025	82.22	42.09	8.82	13.44	393.33	15.84	79	Satisfactory
4	24-01-2025	76.05	38.93	8.63	13.86	363.01	13.85	79	Satisfactory
5	25-01-2025	50.15	25.35	11.35	14.05	443.63	13.71	58	Satisfactory
6	26-01-2025	45.01	22.77	9.97	13.80	411.31	14.02	48	Good
7	27-01-2025	58.53	29.70	9.50	13.34	419.63	15.34	55	Satisfactory
8	28-01-2025	55.84	28.04	11.80	14.30	354.84	18.30	58	Satisfactory
9	29-01-2025	88.11	44.70	10.47	13.38	331.18	18.11	78	Satisfactory
10	30-01-2025	78.75	40.27	10.41	13.72	347.23	14.63	83	Satisfactory
11	31-01-2025	77.82	39.88	9.63	13.73	284.66	15.65	77	Satisfactory
12	01-02-2025	89.25	45.59	9.54	13.81	279.29	16.07	87	Satisfactory
13	02-02-2025	76.68	38.88	9.69	13.98	252.05	21.25	81	Satisfactory
14	03-02-2025	63.62	31.90	9.78	13.94	313.85	16.75	63	Satisfactory
15	04-02-2025	67.24	33.83	9.76	13.85	295.30	16.21	65	Satisfactory
16	05-02-2025	68.75	34.60	8.43	13.59	324.89	14.96	70	Satisfactory
17	06-02-2025	71.00	36.59	9.00	13.84	356.55	14.17	71	Satisfactory
18	07-02-2025	68.54	34.96	9.35	13.65	400.44	13.33	68	Satisfactory
19	08-02-2025	63.39	32.21	9.73	13.70	410.96	14.98	65	Satisfactory
20	09-02-2025	75.49	38.51	6.85	13.70	341.23	14.37	71	Satisfactory
21	10-02-2025	88.29	45.56	4.91	13.57	340.41	14.60	85	Satisfactory
22	11-02-2025	80.87	41.78	5.04	13.40	482.12	14.72	83	Satisfactory
23	12-02-2025	89.46	45.69	5.08	13.10	380.46	18.97	84	Satisfactory
24	13-02-2025	92.57	49.19	4.80	13.15	394.72	16.55	97	Satisfactory
25	14-02-2025	82.61	42.39	4.55	13.45	333.32	14.56	82	Satisfactory
26	15-02-2025	88.68	45.15	4.88	13.36	357.08	16.30	86	Satisfactory
27	16-02-2025	76.16	38.43	5.45	13.40	410.21	17.42	80	Satisfactory
28	17-02-2025	73.98	37.63	5.16	13.41	317.25	16.74	74	Satisfactory
29	18-02-2025	74.03	37.48	4.51	13.58	277.07	14.36	76	Satisfactory
30	19-02-2025	76.23	38.26	4.41	13.54	339.39	13.79	74	Satisfactory

31	01-03-2025	71.37	36.62	5.73	13.08	384.50	17.07	71	Satisfactory
32	02-03-2025	68.32	35.23	5.79	13.29	445.67	15.57	70	Satisfactory
33	03-03-2025	55.66	27.90	5.36	13.00	364.92	15.99	56	Satisfactory
34	04-03-2025	113.68	59.33	4.81	13.68	350.92	15.26	108	Moderate
35	05-03-2025	67.24	34.36	6.51	13.69	382.60	15.40	77	Satisfactory
36	06-03-2025	67.05	34.11	5.74	13.52	305.20	16.41	66	Satisfactory
37	07-03-2025	64.33	32.79	6.39	13.49	382.24	16.50	66	Satisfactory
38	08-03-2025	59.08	29.91	5.67	13.32	378.83	16.46	60	Satisfactory
39	09-03-2025	77.11	38.86	3.97	12.55	427.63	16.25	72	Satisfactory
40	10-03-2025	86.34	43.52	4.80	13.32	326.29	15.87	85	Satisfactory
41	11-03-2025	54.67	27.50	7.67	13.78	417.79	21.91	59	Satisfactory
42	12-03-2025	82.76	42.62	5.32	12.85	550.10	15.08	81	Satisfactory
43	13-03-2025	49.18	24.73	4.93	12.65	349.79	14.25	53	Satisfactory
44	14-03-2025	58.48	29.43	4.53	13.39	272.80	12.68	55	Satisfactory
45	15-03-2025	83.14	42.76	4.37	13.31	290.12	12.64	79	Satisfactory
46	16-03-2025	56.33	28.47	4.37	13.73	316.01	12.99	62	Satisfactory
47	17-03-2025	41.47	21.02	4.38	13.17	367.11	14.86	44	Good
48	18-03-2025	48.18	24.03	4.46	13.24	266.64	15.56	46	Good
49	19-03-2025	39.05	19.72	4.36	13.70	323.47	12.90	42	Good
50	20-03-2025	45.43	22.60	4.40	13.23	277.00	15.46	43	Good
51	21-03-2025	50.75	25.25	5.28	13.40	312.10	17.03	50	Good
52	22-03-2025	49.21	25.56	5.08	13.10	286.95	15.61	50	Good
53	23-03-2025	36.59	18.56	5.20	13.01	335.14	16.30	38	Good
54	24-03-2025	46.41	23.28	4.84	13.17	348.82	14.65	45	Good
55	25-03-2025	47.29	23.70	4.72	13.09	268.48	13.82	46	Good
56	26-03-2025	46.32	23.41	4.82	12.90	279.22	14.99	47	Good
57	27-03-2025	43.06	21.66	4.94	13.38	306.17	13.66	44	Good
58	28-03-2025	38.80	19.75	4.74	13.30	301.95	13.46	39	Good

59	29-03-2025	43.56	22.15	4.50	13.14	278.64	14.58	42	Good
60	30-03-2025	45.49	22.94	4.73	12.88	259.18	17.75	45	Good
61	31-03-2025	37.57	19.11	4.20	12.71	264.95	16.40	40	Good

Station 20: Quepem Circle (Nearby Govt offices)									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	164.57	90.24	5.77	21.95	217.50	16.00	187	Moderate
2	22-01-2025	104.17	57.25	8.77	21.62	231.04	18.53	125	Moderate
3	23-01-2025	112.27	61.94	8.10	21.72	213.97	18.56	108	Moderate
4	24-01-2025	121.88	66.47	6.88	21.77	230.09	17.89	127	Moderate
5	25-01-2025	71.27	38.60	15.22	22.15	316.24	18.11	87	Satisfactory
6	26-01-2025	67.69	37.20	15.34	21.76	298.16	17.93	75	Satisfactory
7	27-01-2025	85.47	45.98	12.92	21.40	280.13	18.04	83	Satisfactory
8	28-01-2025	95.47	51.59	12.51	21.48	266.54	18.13	95	Satisfactory
9	29-01-2025	116.97	64.38	13.06	21.30	252.31	18.79	112	Moderate
10	30-01-2025	101.84	56.33	15.08	21.43	289.25	18.21	110	Moderate
11	31-01-2025	94.63	52.16	9.79	21.40	216.78	18.83	97	Satisfactory
12	01-02-2025	114.92	63.94	7.04	21.46	186.78	19.71	110	Moderate
13	02-02-2025	131.03	71.89	7.29	24.75	211.27	22.26	134	Moderate
14	03-02-2025	87.81	48.26	8.32	21.12	243.27	19.20	106	Moderate
15	04-02-2025	33.30	18.78	10.38	19.50	314.93	18.92	49	Good
16	05-02-2025	30.95	17.35	8.04	19.46	273.68	19.07	46	Good
17	06-02-2025	30.15	16.95	9.60	19.51	314.05	18.24	46	Good
18	07-02-2025	28.44	16.01	13.48	19.72	388.18	17.70	50	Good
19	08-02-2025	29.07	16.35	15.40	19.69	411.43	17.70	54	Satisfactory

20	09-02-2025	77.65	46.64	10.85	19.72	330.50	18.02	70	Satisfactory
21	10-02-2025	106.84	65.16	11.02	19.52	339.63	17.97	113	Moderate
22	11-02-2025	91.45	55.52	13.32	19.50	401.02	18.01	104	Moderate
23	12-02-2025	120.99	73.17	7.69	19.62	306.23	18.45	127	Moderate
24	13-02-2025	92.00	55.43	10.13	19.31	309.82	19.11	112	Moderate
25	14-02-2025	90.13	54.41	6.53	19.41	256.62	18.63	89	Satisfactory
26	15-02-2025	110.02	65.18	6.80	19.72	286.90	19.26	112	Moderate
27	16-02-2025	89.31	52.54	13.45	19.67	480.13	20.99	111	Moderate
28	17-02-2025	112.41	65.78	12.05	19.72	403.33	18.58	111	Moderate
29	18-02-2025	102.74	60.67	6.29	19.48	270.46	18.18	117	Moderate
30	19-02-2025	98.63	57.87	5.87	19.62	284.18	17.92	101	Moderate
31	01-03-2025	58.28	34.63	42.10	18.94	823.69	20.46	110	Moderate
32	02-03-2025	61.16	37.00	21.93	19.40	470.65	17.57	83	Satisfactory
33	03-03-2025	52.33	31.69	14.88	19.50	298.74	17.54	64	Satisfactory
34	04-03-2025	64.34	38.90	10.98	19.28	316.18	18.05	64	Satisfactory
35	05-03-2025	61.28	36.80	16.71	19.42	407.76	18.10	69	Satisfactory
36	06-03-2025	62.14	37.16	13.51	19.47	350.95	18.06	67	Satisfactory
37	07-03-2025	61.84	36.85	16.92	19.34	409.40	18.01	70	Satisfactory
38	08-03-2025	59.42	35.27	12.02	19.37	325.60	18.46	64	Satisfactory
39	09-03-2025	63.93	37.73	7.92	19.55	246.64	18.76	62	Satisfactory
40	10-03-2025	72.43	42.71	6.62	19.45	287.97	18.79	70	Satisfactory
41	11-03-2025	69.08	41.20	12.65	19.27	453.16	18.34	72	Satisfactory
42	12-03-2025	63.37	37.87	14.18	19.44	419.90	17.38	69	Satisfactory
43	13-03-2025	79.60	46.51	9.55	21.97	286.65	19.39	81	Satisfactory
44	14-03-2025	80.04	46.81	7.56	21.11	291.18	18.39	78	Satisfactory
45	15-03-2025	111.67	66.65	6.28	19.88	267.69	17.32	113	Moderate
46	16-03-2025	73.83	43.37	6.66	20.50	321.92	18.19	83	Satisfactory
47	17-03-2025	53.38	31.41	5.96	19.62	319.29	18.34	57	Satisfactory

48	18-03-2025	69.21	40.18	6.69	19.86	278.86	19.26	65	Satisfactory
49	19-03-2025	51.94	30.59	6.52	19.58	321.06	17.50	57	Satisfactory
50	20-03-2025	43.33	26.40	5.64	19.58	321.20	20.33	47	Good
51	21-03-2025	53.60	31.98	7.44	19.40	312.00	20.07	53	Satisfactory
52	22-03-2025	42.05	25.81	9.46	19.37	359.61	18.41	49	Good
53	23-03-2025	39.84	24.47	9.02	19.46	324.57	18.43	46	Good
54	24-03-2025	46.15	27.84	7.07	19.91	271.02	18.74	47	Good
55	25-03-2025	48.17	29.13	6.18	19.24	273.21	18.40	48	Good
56	26-03-2025	50.13	30.48	6.35	19.10	285.67	18.90	52	Satisfactory
57	27-03-2025	42.81	26.16	5.69	19.51	314.29	18.90	47	Good
58	28-03-2025	37.05	23.11	6.17	19.63	316.45	18.25	46	Good
59	29-03-2025	43.00	26.34	6.01	19.45	299.02	18.35	46	Good
60	30-03-2025	43.94	26.64	6.60	19.93	303.45	20.38	48	Good
61	31-03-2025	33.36	20.64	6.24	19.46	323.21	19.24	46	Good

Station 21: Mr. Ashis Naik House, Rivona Gate, Pandovwado,Sanguem, Near by Temple									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	88.88	45.17	7.34	33.69	104.76	8.67	93	Satisfactory
2	22-01-2025	66.91	33.69	8.58	35.23	260.19	12.37	88	Satisfactory
3	23-01-2025	74.74	37.35	7.04	32.75	198.84	12.39	81	Satisfactory
4	24-01-2025	70.11	35.05	8.82	40.31	280.26	11.01	91	Satisfactory
5	25-01-2025	44.84	21.97	11.24	39.89	343.84	11.04	92	Satisfactory
6	26-01-2025	44.48	21.88	11.49	27.99	306.96	11.55	76	Satisfactory
7	27-01-2025	49.00	24.00	16.10	3.66	267.35	12.47	56	Satisfactory
8	28-01-2025	60.11	29.65	15.91	3.61	234.72	12.68	64	Satisfactory

9	29-01-2025	76.63	37.94	15.59	3.58	222.78	13.21	76	Satisfactory
10	30-01-2025	69.86	34.90	16.70	3.56	243.14	12.10	77	Satisfactory
11	31-01-2025	78.53	39.67	11.79	3.51	224.54	12.44	79	Satisfactory
12	01-02-2025	91.59	45.53	14.93	3.65	177.28	12.82	89	Satisfactory
13	02-02-2025	87.88	43.28	12.03	3.37	162.77	13.04	88	Satisfactory
14	03-02-2025	64.72	31.71	16.22	3.73	236.53	12.65	76	Satisfactory
15	04-02-2025	54.63	26.68	16.43	3.33	247.87	14.52	65	Satisfactory
16	05-02-2025	57.29	28.17	12.66	3.68	217.95	12.82	58	Satisfactory
17	06-02-2025	60.46	29.87	15.68	3.45	237.10	11.56	66	Satisfactory
18	07-02-2025	65.64	32.86	15.69	3.46	239.58	11.47	71	Satisfactory
19	08-02-2025	59.49	29.47	17.09	3.77	241.61	11.99	68	Satisfactory
20	09-02-2025	69.58	34.67	13.28	8.91	199.63	12.30	71	Satisfactory
21	10-02-2025	84.09	42.30	9.23	10.57	214.88	12.19	80	Satisfactory
22	11-02-2025	70.43	35.41	8.80	10.65	239.92	12.00	75	Satisfactory
23	12-02-2025	85.99	42.76	8.67	11.37	223.95	13.83	79	Satisfactory
24	13-02-2025	76.72	37.98	8.79	13.34	175.01	13.14	82	Satisfactory
25	14-02-2025	78.08	38.61	7.86	10.26	151.55	12.11	77	Satisfactory
26	15-02-2025	84.64	41.91	8.35	10.87	203.74	12.57	82	Satisfactory
27	16-02-2025	70.03	34.34	11.05	11.18	237.47	13.34	74	Satisfactory
28	17-02-2025	75.62	37.17	9.17	11.37	216.22	12.91	74	Satisfactory
29	18-02-2025	74.37	36.55	6.70	9.70	168.93	11.80	76	Satisfactory
30	19-02-2025	71.88	35.17	5.78	9.31	205.25	11.22	72	Satisfactory
31	20-02-2025	91.78	45.07	5.77	9.23	145.48	8.21	82	Satisfactory
32	01-03-2025	104.58	48.54	10.09	11.16	239.09	12.70	97	Satisfactory
33	02-03-2025	91.68	42.40	10.15	10.87	234.45	12.99	93	Satisfactory
34	03-03-2025	496.65	194.51	8.85	11.27	188.59	12.37	432	Severe
35	04-03-2025	124.04	56.19	9.36	14.40	181.68	11.98	200	Moderate

36	05-03-2025	89.58	40.58	11.83	10.21	244.18	12.71	93	Satisfactory
37	06-03-2025	99.38	45.33	11.20	11.64	208.17	12.87	94	Satisfactory
38	07-03-2025	94.92	43.01	12.05	11.36	248.70	12.83	94	Satisfactory
39	08-03-2025	81.64	36.81	10.23	11.88	204.37	13.34	84	Satisfactory
40	09-03-2025	87.73	39.72	7.54	10.62	128.47	12.93	84	Satisfactory
41	10-03-2025	95.32	44.24	9.75	10.70	183.61	12.23	92	Satisfactory
42	11-03-2025	95.66	44.67	11.08	11.23	235.46	12.55	94	Satisfactory
43	12-03-2025	89.83	42.22	10.16	11.36	202.72	12.31	90	Satisfactory
44	13-03-2025	66.22	30.08	8.50	11.04	238.11	11.74	70	Satisfactory
45	14-03-2025	132.82	57.09	6.54	9.63	188.64	10.82	112	Moderate
46	15-03-2025	140.80	63.15	5.29	8.81	123.19	10.73	126	Moderate
47	16-03-2025	107.83	46.71	5.91	8.78	238.29	10.92	107	Moderate
48	17-03-2025	85.91	36.47	5.98	9.21	273.72	11.60	88	Satisfactory
49	18-03-2025	104.63	44.84	6.28	9.39	221.36	12.07	97	Satisfactory
50	19-03-2025	85.83	35.77	5.76	8.99	298.31	10.77	89	Satisfactory
51	20-03-2025	96.50	40.41	5.28	9.89	247.06	11.73	90	Satisfactory
52	21-03-2025	106.25	45.36	7.44	9.53	212.96	12.54	100	Satisfactory
53	22-03-2025	103.73	44.70	7.71	10.56	246.76	11.67	98	Satisfactory
54	23-03-2025	107.33	44.87	7.96	12.66	290.43	11.98	101	Moderate
55	24-03-2025	114.07	48.18	6.91	10.70	246.28	11.86	106	Moderate
56	25-03-2025	57.32	26.16	8.72	6.08	245.05	12.84	61	Satisfactory
57	26-03-2025	91.84	39.33	7.52	10.26	229.42	12.23	86	Satisfactory
58	27-03-2025	102.00	45.56	7.73	11.74	337.19	10.95	95	Satisfactory
59	28-03-2025	102.56	44.84	6.01	9.77	342.43	10.42	104	Moderate
60	29-03-2025	93.83	40.24	5.26	11.92	525.92	11.16	92	Satisfactory
61	30-03-2025	102.58	43.95	7.39	9.00	263.26	13.32	96	Satisfactory
62	31-03-2025	83.22	34.78	6.80	8.48	271.73	12.39	85	Satisfactory

Station 22: Mr. Aniket Dessai House, Shigaon									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	104.04	56.49	7.72	26.10	135.40	12.11	102	Moderate
2	22-01-2025	86.57	47.42	9.48	29.26	208.64	22.40	92	Satisfactory
3	23-01-2025	96.50	53.23	8.14	28.45	187.47	20.75	93	Satisfactory
4	24-01-2025	73.10	40.29	9.64	27.23	230.28	17.17	81	Satisfactory
5	25-01-2025	46.88	25.51	11.57	29.02	245.34	18.47	71	Satisfactory
6	26-01-2025	56.16	30.36	11.86	30.66	236.15	19.80	75	Satisfactory
7	27-01-2025	69.63	37.44	10.36	29.70	199.11	22.26	74	Satisfactory
8	28-01-2025	85.82	46.15	10.07	28.50	191.33	22.78	82	Satisfactory
9	29-01-2025	95.57	52.36	10.24	26.35	189.62	23.36	92	Satisfactory
10	30-01-2025	85.04	46.74	11.11	23.52	224.66	20.56	88	Satisfactory
11	31-01-2025	93.61	51.50	9.05	23.98	180.18	23.22	90	Satisfactory
12	01-02-2025	111.65	62.80	9.63	23.44	188.48	22.96	108	Moderate
13	02-02-2025	105.65	58.63	8.23	21.29	169.22	22.12	110	Moderate
14	03-02-2025	65.86	35.66	10.03	23.10	227.41	21.48	77	Satisfactory
15	04-02-2025	33.29	17.85	7.96	23.14	192.92	19.75	56	Satisfactory
16	05-02-2025	33.69	18.08	7.57	22.15	184.68	18.46	54	Satisfactory
17	06-02-2025	33.26	18.01	8.39	21.89	207.32	16.56	53	Satisfactory
18	07-02-2025	34.21	18.67	8.55	22.13	205.47	16.78	54	Satisfactory
19	08-02-2025	34.51	18.78	7.64	23.71	194.36	19.09	56	Satisfactory
20	09-02-2025	48.29	26.79	8.24	16.31	186.42	18.90	49	Good
21	10-02-2025	59.51	33.86	7.84	13.71	184.81	18.98	57	Satisfactory
22	11-02-2025	48.70	27.25	6.88	15.54	197.99	20.69	51	Satisfactory
23	12-02-2025	62.79	35.65	8.40	14.24	172.57	22.16	58	Satisfactory

24	13-02-2025	57.78	32.35	8.43	13.99	180.97	20.72	60	Satisfactory
25	14-02-2025	55.41	30.80	8.20	13.27	171.15	20.43	55	Satisfactory
26	15-02-2025	61.85	34.86	7.87	14.31	175.52	20.59	60	Satisfactory
27	16-02-2025	52.80	29.00	10.11	13.62	221.37	21.53	56	Satisfactory
28	17-02-2025	55.13	30.59	9.97	13.81	201.64	21.18	56	Satisfactory
29	18-02-2025	53.37	29.45	7.81	12.12	181.86	19.27	54	Satisfactory
30	19-02-2025	52.91	29.17	6.60	10.19	178.64	17.14	52	Satisfactory
31	01-03-2025	49.10	27.35	11.09	12.20	215.08	22.27	51	Satisfactory
32	02-03-2025	45.97	25.70	9.85	11.91	208.44	19.91	50	Good
33	03-03-2025	39.24	21.71	10.08	12.59	183.51	21.53	42	Good
34	04-03-2025	46.31	25.65	11.70	12.58	218.43	18.32	51	Satisfactory
35	05-03-2025	44.73	24.64	11.55	11.49	215.03	21.50	50	Good
36	06-03-2025	45.59	25.06	12.33	12.74	214.42	22.33	52	Satisfactory
37	07-03-2025	49.27	27.09	12.98	13.11	247.25	22.49	57	Satisfactory
38	08-03-2025	43.47	23.61	11.73	12.86	194.71	23.48	49	Good
39	09-03-2025	48.44	26.20	8.00	10.66	152.72	22.21	46	Good
40	10-03-2025	54.98	30.14	10.16	11.52	194.25	20.85	54	Satisfactory
41	11-03-2025	46.66	25.54	17.80	12.22	321.70	33.36	62	Satisfactory
42	12-03-2025	44.60	24.56	12.14	13.72	215.63	22.72	51	Satisfactory
43	13-03-2025	37.16	20.73	9.37	12.57	192.38	19.39	42	Good
44	14-03-2025	44.32	24.58	7.22	9.66	175.47	16.94	42	Good
45	15-03-2025	58.60	33.26	6.28	9.20	149.10	17.00	55	Satisfactory
46	16-03-2025	46.03	25.52	6.18	8.28	178.65	17.17	49	Good
47	17-03-2025	34.65	18.98	6.61	9.66	187.79	21.15	37	Good
48	18-03-2025	42.35	22.97	6.23	9.07	162.87	19.58	40	Good
49	19-03-2025	29.67	16.29	6.71	9.33	204.29	18.12	34	Good
50	20-03-2025	32.92	17.94	6.18	10.01	179.86	20.34	32	Good
51	21-03-2025	40.55	21.90	7.21	9.79	183.95	21.85	40	Good

52	22-03-2025	25.87	14.10	11.16	11.68	266.79	28.72	40	Good
53	23-03-2025	27.83	15.50	7.88	10.75	198.38	21.66	32	Good
54	24-03-2025	36.96	20.18	7.75	10.78	179.80	20.67	37	Good
55	25-03-2025	40.30	22.08	6.42	9.47	162.82	18.63	39	Good
56	26-03-2025	37.99	21.14	7.23	10.38	166.38	21.45	39	Good
57	27-03-2025	28.13	15.36	8.24	9.52	232.76	24.39	33	Good
58	28-03-2025	27.26	15.25	6.48	9.47	189.68	16.92	29	Good
59	29-03-2025	29.78	16.53	6.29	9.64	171.83	19.59	30	Good
60	30-03-2025	39.05	21.23	6.71	8.32	162.13	24.19	37	Good
61	31-03-2025	29.80	16.22	6.48	8.08	180.67	22.72	31	Good

Station 23: Mr. Dilip House, Near Sai Tample, Ambeudak (Shradha Ispat), Kaley Mineral Rd									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	173.69	94.96	5.80	5.76	150.51	17.85	177	Moderate
2	22-01-2025	118.50	64.00	6.79	6.31	217.52	32.00	129	Moderate
3	23-01-2025	123.47	66.38	6.10	6.34	195.16	30.76	123	Moderate
4	24-01-2025	112.87	60.61	7.24	6.54	231.52	24.79	122	Moderate
5	25-01-2025	78.18	41.52	8.61	6.65	266.97	26.50	86	Satisfactory
6	26-01-2025	80.04	44.30	8.08	6.65	229.03	26.32	83	Satisfactory
7	27-01-2025	39.16	22.68	7.25	6.26	213.50	30.34	48	Good
8	28-01-2025	45.95	26.77	7.02	6.17	203.61	33.82	43	Good
9	29-01-2025	53.09	31.12	7.09	6.12	210.88	35.97	50	Good
10	30-01-2025	53.88	31.87	7.85	6.35	237.06	29.71	54	Satisfactory
11	31-01-2025	54.21	31.96	6.57	6.17	194.64	33.56	53	Satisfactory
12	01-02-2025	49.49	28.91	9.25	6.28	241.87	48.52	51	Satisfactory

13	02-02-2025	68.73	40.57	4.33	6.17	166.36	25.74	66	Satisfactory
14	03-02-2025	45.21	26.31	7.21	6.23	221.34	32.94	51	Satisfactory
15	04-02-2025	41.61	24.15	6.77	6.08	202.36	33.93	42	Good
16	05-02-2025	49.23	29.09	6.50	6.16	197.00	31.83	48	Good
17	06-02-2025	43.18	25.10	8.79	6.54	253.86	39.34	46	Good
18	07-02-2025	47.38	27.70	7.67	6.44	237.74	26.95	46	Good
19	08-02-2025	46.62	27.28	7.50	6.38	229.95	29.15	48	Good
20	09-02-2025	53.75	31.73	6.92	6.28	209.28	30.09	52	Satisfactory
21	10-02-2025	60.83	36.04	6.80	6.23	210.12	30.85	59	Satisfactory
22	11-02-2025	50.53	29.74	6.96	6.06	220.48	31.15	54	Satisfactory
23	12-02-2025	59.81	35.12	6.91	6.08	205.89	37.04	56	Satisfactory
24	13-02-2025	57.55	33.84	5.38	6.31	190.63	30.46	59	Satisfactory
25	14-02-2025	53.27	31.17	6.66	6.06	186.06	33.93	53	Satisfactory
26	15-02-2025	53.22	31.04	6.69	6.15	187.42	35.43	52	Satisfactory
27	16-02-2025	53.07	30.90	8.13	6.25	221.75	37.35	54	Satisfactory
28	17-02-2025	52.78	30.67	7.93	6.21	210.20	35.03	53	Satisfactory
29	18-02-2025	50.28	29.18	4.67	6.23	154.42	25.34	52	Satisfactory
30	19-02-2025	49.12	28.39	6.00	6.32	175.95	29.59	49	Good
31	01-03-2025	39.05	22.49	12.91	6.46	320.16	50.22	47	Good
32	02-03-2025	44.34	25.99	8.47	6.24	232.06	30.49	46	Good
33	03-03-2025	37.30	21.42	7.85	6.12	200.69	28.96	39	Good
34	04-03-2025	41.82	24.13	9.60	6.44	223.59	29.98	44	Good
35	05-03-2025	42.98	24.77	9.64	6.20	219.44	33.91	45	Good
36	06-03-2025	42.09	24.32	9.67	6.11	225.07	35.05	45	Good
37	07-03-2025	44.23	25.62	9.91	5.99	233.10	36.88	48	Good
38	08-03-2025	41.59	24.03	8.59	5.95	204.62	35.27	45	Good
39	09-03-2025	41.39	23.48	6.67	5.99	167.53	36.29	40	Good
40	10-03-2025	51.65	29.48	7.96	6.18	199.38	34.60	49	Good
41	11-03-2025	41.99	24.03	14.02	6.17	342.76	64.28	50	Good

42	12-03-2025	44.53	25.78	9.23	5.96	236.64	29.26	47	Good
43	13-03-2025	34.03	19.43	7.06	6.13	187.57	26.48	37	Good
44	14-03-2025	40.12	22.88	6.18	6.29	173.75	26.95	38	Good
45	15-03-2025	55.76	32.17	5.73	6.32	159.27	26.06	52	Satisfactory
46	16-03-2025	36.49	20.72	6.87	6.62	201.06	40.41	39	Good
47	17-03-2025	32.23	18.42	5.68	6.10	172.90	34.17	33	Good
48	18-03-2025	36.98	21.01	5.68	6.23	164.24	33.14	36	Good
49	19-03-2025	26.33	15.08	6.02	6.33	187.20	30.08	30	Good
50	20-03-2025	30.87	17.57	5.63	6.12	176.60	30.85	30	Good
51	21-03-2025	29.84	16.88	8.52	6.21	223.98	57.66	32	Good
52	22-03-2025	26.68	15.35	9.19	6.15	251.61	49.24	33	Good
53	23-03-2025	32.97	19.09	6.67	5.97	205.83	33.47	33	Good
54	24-03-2025	33.94	19.28	6.46	6.04	182.53	32.09	34	Good
55	25-03-2025	33.95	19.32	7.46	6.23	196.24	43.56	33	Good
56	26-03-2025	34.50	19.61	6.36	5.68	167.76	36.06	34	Good
57	27-03-2025	31.65	17.99	6.11	6.18	178.84	29.63	32	Good
58	28-03-2025	28.15	16.12	6.01	6.30	177.20	27.03	29	Good
59	29-03-2025	28.79	16.45	5.69	6.11	163.23	29.91	28	Good
60	30-03-2025	34.58	19.81	5.79	6.09	163.19	43.07	33	Good
61	31-03-2025	30.56	17.41	6.57	6.37	182.90	44.78	30	Good

Station 24: Kurpem Village (Nearby MDR-47, Ambaulim-Cavorim-Pirla at Anil Faldessai Home)									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	99.22	54.02	7.69	11.08	182.99	17.81	116	Moderate
2	22-01-2025	148.22	84.41	8.89	11.13	182.87	15.24	169	Moderate

3	23-01-2025	119.46	65.98	8.67	11.15	160.87	14.69	130	Moderate
4	24-01-2025	134.88	76.01	8.70	11.13	186.87	14.03	141	Moderate
5	25-01-2025	75.83	41.35	10.41	11.11	200.61	15.05	92	Satisfactory
6	26-01-2025	76.89	42.35	9.80	11.11	198.62	14.64	79	Satisfactory
7	27-01-2025	84.21	46.87	9.02	11.13	194.97	14.91	84	Satisfactory
8	28-01-2025	108.76	59.90	9.29	11.14	183.52	14.97	106	Moderate
9	29-01-2025	112.00	61.00	8.72	11.14	174.79	15.49	113	Moderate
10	30-01-2025	110.42	60.38	9.77	11.14	176.38	14.76	113	Moderate
11	31-01-2025	112.50	63.09	8.13	11.15	168.95	14.90	115	Moderate
12	05-02-2025	29.14	15.97	11.44	10.20	131.14	4.88	34	Good
13	06-02-2025	25.56	13.75	8.58	10.12	166.23	5.79	32	Good
14	07-02-2025	28.23	15.38	9.03	10.12	176.59	5.80	34	Good
15	08-02-2025	29.72	16.49	9.25	10.12	176.17	5.67	36	Good
16	09-02-2025	26.71	14.68	9.72	10.11	182.37	5.96	36	Good
17	10-02-2025	46.92	26.90	8.14	10.13	165.57	5.82	46	Good
18	11-02-2025	63.23	36.87	5.42	10.14	168.98	5.88	61	Satisfactory
19	12-02-2025	61.46	35.94	5.85	10.14	177.47	5.94	62	Satisfactory
20	13-02-2025	68.10	39.67	5.41	10.15	163.33	6.20	65	Satisfactory
21	14-02-2025	67.27	38.71	5.25	10.14	159.32	6.15	69	Satisfactory
22	15-02-2025	61.84	35.98	5.02	10.13	162.96	5.72	64	Satisfactory
23	16-02-2025	61.08	35.22	5.23	10.13	160.10	5.82	60	Satisfactory
24	17-02-2025	52.23	29.83	6.16	10.11	177.38	6.27	55	Satisfactory
25	18-02-2025	52.09	29.79	5.74	10.13	171.55	6.22	51	Satisfactory
26	19-02-2025	55.40	31.79	5.11	10.15	157.82	5.58	56	Satisfactory
27	20-02-2025	57.48	32.74	4.66	10.16	156.81	5.56	57	Satisfactory
28	21-02-2025	102.68	58.97	4.93	10.23	121.20	4.82	81	Satisfactory
29	01-03-2025	58.53	33.89	5.85	10.13	178.55	6.08	59	Satisfactory
30	02-03-2025	49.46	28.32	6.50	10.12	181.69	6.04	51	Satisfactory

31	03-03-2025	43.14	24.07	5.11	10.14	160.65	5.64	42	Good
32	04-03-2025	48.14	27.40	5.67	10.13	169.86	5.66	47	Good
33	05-03-2025	52.38	29.97	6.61	10.11	186.12	6.06	53	Satisfactory
34	06-03-2025	54.06	31.00	5.98	10.12	168.87	5.88	53	Satisfactory
35	07-03-2025	51.59	29.45	6.50	10.11	186.82	6.23	53	Satisfactory
36	08-03-2025	47.19	26.51	5.47	10.14	164.21	5.89	48	Good
37	09-03-2025	49.58	27.72	4.65	10.14	149.05	5.77	47	Good
38	10-03-2025	60.16	34.14	4.98	10.12	160.08	5.83	58	Satisfactory
39	11-03-2025	52.23	29.90	5.90	10.17	184.13	6.38	53	Satisfactory
40	12-03-2025	49.67	28.43	5.32	10.15	173.85	5.90	51	Satisfactory
41	13-03-2025	38.70	22.04	4.83	10.15	175.80	5.44	40	Good
42	14-03-2025	45.09	25.52	4.42	10.17	164.03	5.33	43	Good
43	15-03-2025	60.95	35.66	4.19	10.16	148.11	5.27	58	Satisfactory
44	16-03-2025	45.64	26.17	4.41	10.17	167.56	5.44	50	Good
45	17-03-2025	36.65	20.56	4.25	10.17	169.59	5.56	38	Good
46	18-03-2025	41.32	22.89	4.41	10.17	166.42	5.81	40	Good
47	19-03-2025	28.78	16.01	4.38	10.17	178.80	5.38	32	Good
48	20-03-2025	39.15	22.00	4.60	10.17	178.55	5.73	37	Good
49	21-03-2025	44.33	24.91	4.95	10.15	171.96	6.24	43	Good
50	22-03-2025	32.57	18.21	4.70	10.14	174.50	5.78	35	Good
51	23-03-2025	30.13	16.86	4.76	10.15	170.28	5.86	30	Good
52	24-03-2025	41.65	23.31	4.30	10.15	166.80	5.62	40	Good
53	25-03-2025	38.86	21.71	4.68	10.14	163.56	5.68	38	Good
54	26-03-2025	37.89	21.54	4.51	10.12	166.05	5.81	38	Good
55	27-03-2025	34.98	19.50	4.46	10.12	167.72	5.57	35	Good
56	28-03-2025	35.94	20.33	4.33	10.09	165.82	5.38	36	Good
57	29-03-2025	39.38	22.12	4.31	10.14	157.68	5.57	39	Good
58	30-03-2025	38.98	21.53	4.70	10.12	160.92	6.19	38	Good
59	31-03-2025	29.78	16.46	4.61	10.12	169.28	5.91	31	Good

Station 25: Govt Polytechnic College, Curchorem, Cacora									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	118.59	65.07	5.04	11.96	190.00	32.65	109	Moderate
2	22-01-2025	95.95	51.82	6.66	13.04	204.78	18.96	99	Satisfactory
3	23-01-2025	100.51	53.80	5.61	12.79	196.98	19.68	96	Satisfactory
4	24-01-2025	91.94	49.21	6.62	13.10	205.18	23.61	94	Satisfactory
5	25-01-2025	55.82	29.30	8.98	13.75	224.98	22.63	65	Satisfactory
6	26-01-2025	59.67	31.67	8.11	13.09	211.01	19.04	58	Satisfactory
7	27-01-2025	62.67	32.84	7.14	12.55	200.74	17.61	62	Satisfactory
8	28-01-2025	83.51	43.80	6.94	12.18	200.38	19.42	76	Satisfactory
9	29-01-2025	105.42	55.78	6.94	12.25	196.71	19.73	97	Satisfactory
10	30-01-2025	95.41	50.98	7.69	12.75	208.25	17.63	98	Satisfactory
11	31-01-2025	84.48	44.84	7.72	13.81	200.90	17.62	88	Satisfactory
12	01-02-2025	114.99	60.96	7.12	12.64	201.05	20.23	104	Moderate
13	02-02-2025	111.77	58.99	5.80	12.67	195.11	22.48	111	Moderate
14	03-02-2025	74.25	39.09	6.84	12.86	205.24	21.38	85	Satisfactory
15	04-02-2025	45.02	23.33	6.50	12.22	200.34	20.05	50	Good
16	05-02-2025	45.42	23.30	6.29	12.18	196.02	18.56	46	Good
17	06-02-2025	45.17	23.24	6.84	12.91	201.74	20.65	46	Good
18	07-02-2025	46.19	23.92	7.51	12.73	205.31	20.87	46	Good
19	08-02-2025	43.78	22.68	7.45	12.90	205.76	18.65	45	Good
20	09-02-2025	51.80	26.79	6.82	12.79	197.55	16.83	49	Good
21	10-02-2025	62.30	32.25	6.83	12.33	197.98	16.92	59	Satisfactory
22	11-02-2025	53.42	27.81	7.00	12.97	203.28	16.68	57	Satisfactory
23	12-02-2025	65.92	34.18	6.64	12.09	195.98	21.79	60	Satisfactory

24	13-02-2025	63.37	32.85	6.97	12.03	195.45	20.31	66	Satisfactory
25	14-02-2025	59.25	30.55	6.32	11.99	192.91	19.87	59	Satisfactory
26	15-02-2025	60.97	31.27	6.32	12.69	195.08	20.88	60	Satisfactory
27	16-02-2025	48.96	25.00	10.15	15.29	214.89	21.71	54	Satisfactory
28	17-02-2025	55.03	28.04	8.13	12.85	203.51	17.68	53	Satisfactory
29	18-02-2025	47.81	24.12	7.21	13.57	193.44	13.19	52	Satisfactory
30	19-02-2025	54.87	27.35	3.86	7.33	193.35	12.35	55	Satisfactory
31	01-03-2025	57.65	29.60	8.51	12.48	207.22	17.09	57	Satisfactory
32	02-03-2025	49.11	25.11	7.88	12.77	206.36	16.41	52	Satisfactory
33	03-03-2025	36.84	18.73	7.67	11.54	196.16	15.70	39	Good
34	04-03-2025	49.67	25.10	7.57	13.12	200.65	21.87	48	Good
35	05-03-2025	43.76	22.29	9.54	12.87	201.77	19.22	47	Good
36	06-03-2025	47.19	24.02	8.70	12.91	201.62	20.35	48	Good
37	07-03-2025	46.44	23.70	9.38	12.93	208.09	20.87	50	Good
38	08-03-2025	39.23	19.94	8.31	11.83	199.64	18.28	43	Good
39	09-03-2025	45.49	22.71	4.47	10.27	190.56	22.06	42	Good
40	10-03-2025	53.77	26.71	7.40	12.24	196.89	19.58	52	Satisfactory
41	11-03-2025	57.57	29.20	8.71	12.98	205.31	21.90	58	Satisfactory
42	12-03-2025	48.27	24.75	8.57	11.93	206.26	16.07	51	Satisfactory
43	13-03-2025	33.09	16.86	6.75	11.14	197.58	16.09	36	Good
44	14-03-2025	41.92	21.10	5.51	12.88	193.01	21.14	39	Good
45	15-03-2025	62.85	31.61	4.48	11.58	190.34	18.85	58	Satisfactory
46	16-03-2025	41.35	20.68	5.00	11.18	190.80	23.53	45	Good
47	17-03-2025	27.88	14.18	5.08	9.03	191.54	15.13	30	Good
48	18-03-2025	36.61	18.42	5.24	9.79	190.73	19.01	34	Good
49	19-03-2025	21.33	10.76	6.23	12.11	200.10	16.84	30	Good
50	20-03-2025	30.52	15.42	4.69	9.25	192.42	20.70	28	Good
51	21-03-2025	37.68	18.74	5.87	9.85	192.39	21.87	37	Good

52	22-03-2025	31.52	16.08	6.20	9.44	196.46	19.68	33	Good
53	23-03-2025	26.87	13.64	6.27	9.16	196.25	20.63	29	Good
54	24-03-2025	33.08	16.71	5.70	8.68	192.16	16.99	32	Good
55	25-03-2025	33.77	17.01	5.69	9.96	190.70	19.78	33	Good
56	26-03-2025	33.06	16.70	5.63	8.27	190.25	17.69	33	Good
57	27-03-2025	36.41	18.35	5.51	9.99	193.94	20.54	36	Good
58	28-03-2025	28.48	14.42	5.27	10.50	191.57	22.88	30	Good
59	29-03-2025	28.95	14.74	5.06	10.36	190.20	19.66	29	Good
60	30-03-2025	32.48	16.50	5.06	10.67	190.27	15.67	32	Good
61	31-03-2025	25.42	12.81	4.96	11.23	190.78	15.63	28	Good

Station 26: Zambaulim Govt. High School, Rivona									
Duration:-									
Sr. No		**Time Weighted Average (TWA)**						**AQI**	**AIR QLTY**
		24-Hr	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**	**24-Hr**		
	Parameters	**Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)**							
	Date	**PM10**	**PM2.5**	**SO2**	**NO2**	***CO**	**O3**		
1	22-01-2025	91.87	47.67	8.01	15.07	210.81	18.13	84	Satisfactory
2	23-01-2025	63.22	32.51	9.05	14.55	249.04	21.16	68	Satisfactory
3	24-01-2025	69.61	35.40	7.35	14.71	219.14	21.45	66	Satisfactory
4	25-01-2025	66.11	33.49	8.85	14.35	241.59	19.45	68	Satisfactory
5	26-01-2025	37.11	18.42	11.79	13.96	322.43	19.48	49	Good
6	27-01-2025	36.33	18.44	10.32	14.36	304.57	19.88	42	Good
7	28-01-2025	42.84	21.69	8.97	14.68	261.49	21.17	43	Good
8	29-01-2025	55.10	27.83	9.45	14.80	247.80	21.80	52	Satisfactory
9	30-01-2025	75.00	38.07	9.48	14.99	223.14	22.99	69	Satisfactory
10	31-01-2025	69.24	35.19	9.68	14.52	258.34	19.81	71	Satisfactory

11	01-02-2025	77.49	39.35	7.39	14.94	240.64	21.59	75	Satisfactory
12	02-02-2025	89.26	44.90	8.10	14.71	208.52	21.91	87	Satisfactory
13	03-02-2025	91.42	45.65	7.36	14.77	196.41	22.57	88	Satisfactory
14	04-02-2025	65.82	32.83	8.50	14.51	232.62	21.57	75	Satisfactory
15	05-02-2025	59.71	29.91	8.72	14.75	238.49	22.01	59	Satisfactory
16	06-02-2025	56.78	28.30	9.46	14.71	230.93	21.41	58	Satisfactory
17	07-02-2025	57.23	28.74	10.19	14.50	253.72	20.33	57	Satisfactory
18	08-02-2025	56.96	28.68	9.70	14.41	259.11	19.41	57	Satisfactory
19	09-02-2025	55.03	27.80	9.96	14.39	255.36	20.78	57	Satisfactory
20	10-02-2025	66.22	33.50	9.11	14.70	219.72	20.71	62	Satisfactory
21	11-02-2025	80.28	40.89	9.36	14.52	229.01	20.22	77	Satisfactory
22	12-02-2025	68.59	35.02	9.69	14.56	257.35	20.85	73	Satisfactory
23	13-02-2025	84.82	43.01	9.10	14.81	205.11	23.84	78	Satisfactory
24	14-02-2025	75.56	38.34	9.44	14.71	210.64	21.62	80	Satisfactory
25	15-02-2025	74.94	37.74	7.89	14.76	209.59	20.52	74	Satisfactory
26	16-02-2025	78.30	39.34	8.44	14.52	205.11	20.66	76	Satisfactory
27	17-02-2025	69.67	34.82	10.66	14.33	220.41	22.04	73	Satisfactory
28	18-02-2025	74.62	37.55	9.22	14.85	209.05	22.23	74	Satisfactory
29	19-02-2025	73.16	36.43	7.43	14.62	215.25	19.74	74	Satisfactory
30	20-02-2025	70.66	34.95	6.78	14.39	228.48	18.28	71	Satisfactory
31	01-03-2025	67.55	34.24	11.06	14.45	241.14	21.21	66	Satisfactory
32	02-03-2025	66.91	33.73	10.31	14.65	230.64	21.23	68	Satisfactory
33	03-03-2025	48.22	24.26	11.14	14.34	253.72	20.66	55	Satisfactory
34	04-03-2025	112.40	60.26	8.45	14.89	251.34	20.58	89	Satisfactory
35	05-03-2025	69.58	35.04	8.60	14.35	204.18	19.99	94	Satisfactory
36	06-03-2025	59.19	29.65	13.10	14.27	233.78	20.59	61	Satisfactory

37	07-03-2025	64.85	32.58	11.56	14.44	211.20	21.23	68	Satisfactory
38	08-03-2025	53.71	26.93	13.20	14.46	234.78	21.92	62	Satisfactory
39	09-03-2025	52.68	26.10	10.24	14.73	231.53	21.75	56	Satisfactory
40	10-03-2025	68.88	33.88	8.67	14.81	202.80	21.52	65	Satisfactory
41	11-03-2025	66.34	32.81	11.31	13.90	204.54	20.55	69	Satisfactory
42	12-03-2025	54.34	27.31	13.84	13.74	252.35	21.99	59	Satisfactory
43	13-03-2025	42.67	21.57	6.27	8.87	263.59	17.39	48	Good
44	14-03-2025	48.45	24.14	2.12	8.73	237.36	15.76	46	Good
45	15-03-2025	79.27	39.71	1.98	8.56	203.88	15.20	68	Satisfactory
46	16-03-2025	66.13	32.83	1.77	8.61	218.77	14.67	75	Satisfactory
47	17-03-2025	43.00	21.51	1.85	8.57	266.35	15.93	48	Good
48	18-03-2025	42.59	21.26	1.89	8.73	251.84	16.62	40	Good
49	19-03-2025	42.18	21.03	1.66	8.61	240.93	15.77	44	Good
50	20-03-2025	34.98	17.48	1.64	8.53	275.79	15.12	36	Good
51	21-03-2025	49.97	24.70	1.77	8.87	230.31	17.03	45	Good
52	22-03-2025	42.35	21.17	2.31	8.67	241.80	17.47	45	Good
53	23-03-2025	36.16	18.20	2.27	8.73	253.88	16.29	38	Good
54	24-03-2025	41.05	20.59	2.44	8.80	268.55	17.81	38	Good
55	25-03-2025	41.59	20.69	2.05	8.86	238.25	16.28	42	Good
56	26-03-2025	43.50	21.79	2.07	9.19	258.78	16.76	43	Good
57	27-03-2025	40.26	20.20	1.94	8.84	256.25	15.56	41	Good
58	28-03-2025	35.58	17.90	1.89	8.66	277.42	15.04	37	Good
59	29-03-2025	36.21	18.35	1.86	8.68	254.48	15.09	36	Good
60	30-03-2025	38.87	19.62	2.00	8.69	230.58	17.51	37	Good
61	31-03-2025	34.14	17.18	2.00	8.67	247.85	17.36	36	Good

Station 27: Govt High School, Colomba									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	79.47	45.53	8.62	14.42	208.31	6.40	76	Satisfactory
2	23-01-2025	61.31	34.20	10.01	14.03	244.43	18.97	65	Satisfactory
3	24-01-2025	66.28	37.05	9.17	13.98	244.41	14.15	64	Satisfactory
4	25-01-2025	58.50	32.81	10.34	13.81	255.32	22.01	63	Satisfactory
5	26-01-2025	41.84	22.96	11.30	14.15	282.53	24.95	52	Satisfactory
6	27-01-2025	37.96	21.00	10.65	14.20	278.36	22.67	46	Good
7	28-01-2025	44.47	24.32	10.79	14.19	274.86	20.43	48	Good
8	29-01-2025	56.83	30.92	10.60	14.20	261.09	18.64	56	Satisfactory
9	30-01-2025	69.85	38.80	10.39	14.14	266.94	17.40	67	Satisfactory
10	31-01-2025	62.06	34.84	10.94	14.14	272.37	20.08	67	Satisfactory
11	01-02-2025	65.45	36.76	9.59	14.08	251.97	14.45	65	Satisfactory
12	02-02-2025	78.55	44.17	9.60	14.06	253.19	14.67	75	Satisfactory
13	03-02-2025	80.17	44.60	9.41	14.21	243.79	15.24	79	Satisfactory
14	04-02-2025	59.12	32.29	9.88	14.40	274.91	17.78	67	Satisfactory
15	05-02-2025	59.37	32.58	9.54	14.52	278.78	15.27	58	Satisfactory
16	06-02-2025	55.91	30.34	10.07	14.33	268.28	16.56	58	Satisfactory
17	07-02-2025	46.03	25.30	15.08	14.20	389.97	27.59	55	Satisfactory
18	08-02-2025	54.76	30.20	10.30	14.17	275.84	18.19	57	Satisfactory
19	09-02-2025	57.64	31.72	10.90	14.19	274.33	17.43	60	Satisfactory
20	10-02-2025	65.68	36.70	8.96	14.20	266.81	15.88	63	Satisfactory
21	11-02-2025	65.36	36.45	8.04	14.07	356.66	22.41	67	Satisfactory
22	12-02-2025	60.99	34.09	6.61	14.21	292.53	16.39	60	Satisfactory
23	13-02-2025	76.04	42.82	5.86	14.18	259.94	14.10	71	Satisfactory

24	14-02-2025	67.59	37.79	6.14	14.18	269.56	15.65	71	Satisfactory
25	15-02-2025	68.56	38.62	5.54	14.05	239.88	14.16	67	Satisfactory
26	16-02-2025	68.78	38.57	5.72	13.96	258.59	17.08	68	Satisfactory
27	17-02-2025	67.21	37.48	6.64	14.00	291.59	16.97	68	Satisfactory
28	18-02-2025	65.45	36.36	6.16	14.18	272.11	16.77	65	Satisfactory
29	19-02-2025	65.92	36.28	5.46	13.99	226.56	12.69	67	Satisfactory
30	20-02-2025	62.77	34.47	5.61	13.86	239.49	13.71	63	Satisfactory
31	21-02-2025	96.36	53.96	5.56	14.27	194.19	11.28	80	Satisfactory
32	01-03-2025	62.82	35.22	5.88	14.20	281.81	14.67	63	Satisfactory
33	02-03-2025	55.80	31.13	6.06	14.22	284.95	15.53	58	Satisfactory
34	03-03-2025	50.36	27.58	5.18	14.08	246.96	16.34	50	Good
35	04-03-2025	57.10	31.39	6.02	13.91	267.39	16.84	56	Satisfactory
36	05-03-2025	55.52	30.54	6.81	14.19	288.71	16.47	56	Satisfactory
37	06-03-2025	58.43	32.43	5.89	13.89	268.98	17.67	58	Satisfactory
38	07-03-2025	52.93	29.04	6.28	14.19	291.02	15.73	55	Satisfactory
39	08-03-2025	45.39	24.66	6.03	14.09	291.13	19.87	47	Good
40	09-03-2025	57.60	30.98	5.22	14.01	231.34	14.50	54	Satisfactory
41	10-03-2025	66.03	36.05	6.16	13.96	278.52	15.13	64	Satisfactory
42	11-03-2025	66.63	37.35	6.50	14.10	291.25	15.52	67	Satisfactory
43	12-03-2025	58.95	32.83	5.89	14.19	275.12	14.66	61	Satisfactory
44	13-03-2025	43.70	24.23	5.09	13.99	244.46	14.68	46	Good
45	14-03-2025	52.72	28.97	5.39	13.85	243.65	11.99	50	Good
46	15-03-2025	72.88	41.50	5.15	13.85	216.54	11.37	69	Satisfactory
47	16-03-2025	50.45	27.76	5.73	13.63	259.66	14.20	56	Satisfactory
48	17-03-2025	35.64	19.78	5.39	13.83	253.53	14.05	38	Good
49	18-03-2025	47.22	25.62	5.57	13.62	255.16	16.71	44	Good
50	19-03-2025	32.52	17.96	5.67	13.54	271.44	13.62	38	Good
51	20-03-2025	39.23	21.46	5.62	13.87	288.27	13.45	37	Good

52	21-03-2025	47.13	25.47	5.80	13.72	268.70	16.68	46	Good
53	22-03-2025	37.44	20.75	5.78	13.99	268.45	12.24	40	Good
54	23-03-2025	30.33	17.15	5.55	13.97	245.12	12.90	34	Good
55	24-03-2025	41.98	23.12	5.19	13.96	229.30	12.29	39	Good
56	25-03-2025	41.50	22.89	5.60	13.79	237.75	13.70	41	Good
57	26-03-2025	41.91	23.48	5.48	13.98	247.83	14.49	42	Good
58	27-03-2025	40.44	22.41	5.61	13.81	250.98	13.28	41	Good
59	28-03-2025	34.72	19.44	5.65	13.73	257.18	11.46	37	Good
60	29-03-2025	36.19	20.19	5.32	13.75	226.10	13.70	35	Good
61	30-03-2025	43.32	23.63	5.63	13.59	228.93	20.01	42	Good
62	31-03-2025	29.04	16.27	5.78	12.96	260.81	22.64	32	Good

Station 28: MCT2408026									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	21-01-2025	103.29	57.56	2.28	12.88	118.99	12.64	97	Satisfactory
2	22-01-2025	104.25	58.61	10.93	13.04	138.63	21.66	111	Moderate
3	23-01-2025	85.07	47.18	15.47	13.09	149.57	21.05	93	Satisfactory
4	24-01-2025	94.54	52.55	12.33	13.2	136.57	20.67	94	Satisfactory
5	25-01-2025	77.98	43.54	16.25	13.25	161.62	21.16	89	Satisfactory
6	26-01-2025	58.12	32.34	16.01	13.21	171.42	22.3	72	Satisfactory
7	27-01-2025	60.92	33.34	15.4	13.19	168.35	20.92	69	Satisfactory
8	28-01-2025	67.31	36.91	15.07	13.04	169.13	20.31	73	Satisfactory
9	29-01-2025	85.38	46.57	13.91	12.95	176.62	20.53	85	Satisfactory
10	30-01-2025	101.13	56.44	13.54	12.92	173.34	20.55	98	Satisfactory
11	31-01-2025	83.13	46.17	13.22	13	191.28	21.1	91	Satisfactory

12	01-02-2025	93.3	51.98	10.61	12.95	149.2	20.22	92	Satisfactory
13	02-02-2025	108	61.41	11.62	12.92	152.54	20.82	107	Moderate
14	03-02-2025	98.18	54.52	5.7	12.99	137.66	20.69	102	Moderate
15	04-02-2025	78.76	43.28	13.29	12.92	165.49	21.25	87	Satisfactory
16	05-02-2025	77.91	42.46	12.22	12.93	165.2	19.93	80	Satisfactory
17	06-02-2025	86.41	47.58	11.56	12.89	148.57	19.78	89	Satisfactory
18	07-02-2025	76.68	41.97	11.94	12.97	165.48	19.79	82	Satisfactory
19	08-02-2025	87.48	48.77	11.63	13	176.14	19.36	88	Satisfactory
20	09-02-2025	81.55	45.12	16.06	12.99	215.77	23.33	89	Satisfactory
21	10-02-2025	92.52	51.31	8.9	13.18	168.3	19.34	94	Satisfactory
22	11-02-2025	98.54	55.23	4.49	13.16	146.65	20.17	97	Satisfactory
23	12-02-2025	90.18	50.17	4.05	13.37	162.09	17.57	95	Satisfactory
24	13-02-2025	100.2	56.36	5.95	13.37	149.81	24.73	95	Satisfactory
25	14-02-2025	98.66	54.9	6.29	13.18	148.24	22.77	101	Moderate
26	15-02-2025	95.37	52.87	4.01	13.05	133.86	22.83	96	Satisfactory
27	16-02-2025	97.7	54.29	5.31	13.36	143.48	25.85	98	Satisfactory
28	17-02-2025	88.8	48.71	6.16	13.32	172.56	26.31	90	Satisfactory
29	18-02-2025	85.39	46.95	5.94	13.29	169.86	25.32	86	Satisfactory
30	19-02-2025	87.58	48.25	3.68	13.25	131.29	25.81	88	Satisfactory
31	20-02-2025	87.27	48	7.08	15.92	128.46	54.67	88	Satisfactory
32	21-02-2025	78.79	43.03	9.78	20.56	134.01	80.16	83	Satisfactory
33	23-02-2025	95.81	53.07	1.85	13.33	125.76	22.39	93	Satisfactory
34	24-02-2025	89.68	49.69	1.72	13.06	127.68	21.7	91	Satisfactory
35	25-02-2025	62.38	34.3	6.64	12.86	182.69	22.27	68	Satisfactory
36	26-02-2025	73.27	40.16	5.33	12.79	160.31	20.46	71	Satisfactory
37	27-02-2025	72.79	40.2	5.05	12.88	152.53	19.89	73	Satisfactory
38	28-02-2025	81.83	45.16	4.47	12.76	167.98	20.21	80	Satisfactory
39	01-03-2025	92.06	51.25	4.71	12.8	176.9	20.12	89	Satisfactory

40	02-03-2025	81.53	45.05	4.7	12.81	182.55	20.17	84	Satisfactory
41	03-03-2025	61.39	34.04	4.52	12.99	191.7	19.37	67	Satisfactory
42	04-03-2025	78.12	43.15	4.45	12.84	152.05	18.22	73	Satisfactory
43	05-03-2025	75.18	41.51	4.75	12.94	179.43	19.62	77	Satisfactory
44	06-03-2025	77.86	42.95	5.14	12.93	171.58	21.04	77	Satisfactory
45	07-03-2025	77.41	42.42	4.84	12.92	164.52	21.3	77	Satisfactory
46	08-03-2025	45.72	24.94	8.14	12.19	220.72	33.48	62	Satisfactory
47	09-03-2025	71.19	39.15	7.66	13.02	197.55	26.09	64	Satisfactory
48	10-03-2025	90.37	49.26	2.14	12.77	138.29	23.13	86	Satisfactory
49	11-03-2025	98.28	54.76	4.92	12.68	171.38	20.47	95	Satisfactory
50	12-03-2025	86.03	47.3	4.9	12.76	183.41	21.25	89	Satisfactory
51	13-03-2025	66.2	36.54	4.52	12.75	159.39	18.63	72	Satisfactory
52	14-03-2025	66.47	37.07	3.56	12.94	141.88	16.73	66	Satisfactory
53	15-03-2025	89.69	50.43	2.44	12.97	140.61	18.33	82	Satisfactory
54	16-03-2025	87.1	48.15	1.72	12.85	121.25	17.62	90	Satisfactory
55	17-03-2025	62.05	34.4	1.86	12.9	128.18	20.14	69	Satisfactory
56	18-03-2025	67.57	36.84	1.64	12.81	124.04	20.5	63	Satisfactory
57	19-03-2025	63.09	34.45	1.61	12.8	122.49	21.48	66	Satisfactory
58	20-03-2025	40.22	22.2	2.33	12.9	136.22	26.48	48	Good
59	22-03-2025	66.7	36.47	5.54	12.7	150.11	22.16	61	Satisfactory
60	23-03-2025	47.93	26.82	4.58	12.64	165.73	18.51	54	Satisfactory
61	24-03-2025	60.07	32.86	4.43	12.66	146.77	18.9	56	Satisfactory
62	25-03-2025	62.46	34.16	3.39	12.63	128.77	19.11	62	Satisfactory
63	26-03-2025	63.23	35	2.17	12.19	127.41	21.63	63	Satisfactory
64	27-03-2025	63.13	34.89	1.87	12.41	123.63	21.48	62	Satisfactory
65	28-03-2025	52.95	29.41	2	12.65	127.49	21.87	56	Satisfactory
66	29-03-2025	43.63	24.47	5.75	14.7	126.67	44.89	49	Good
67	30-03-2025	70.97	38.46	2.36	12.81	125.16	27.68	64	Satisfactory
68	31-03-2025	55.05	30.14	1.73	12.69	122.56	24.06	61	Satisfactory

Station 29: Deputy Collector Office, Dharbandora									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in µg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	100.63	53.73	10.66	10.12	160.00	16.14	104	Moderate
2	23-01-2025	90.83	48.50	12.93	9.92	182.43	19.08	94	Satisfactory
3	24-01-2025	102.36	54.33	11.39	10.05	174.04	18.25	98	Satisfactory
4	25-01-2025	79.89	42.41	13.12	10.23	184.16	16.22	86	Satisfactory
5	26-01-2025	56.08	29.53	17.53	10.27	203.35	16.33	70	Satisfactory
6	27-01-2025	60.91	32.05	15.33	10.17	192.48	17.72	68	Satisfactory
7	28-01-2025	67.70	35.59	13.52	10.01	181.90	18.28	70	Satisfactory
8	29-01-2025	83.76	43.56	13.69	9.98	180.35	18.66	82	Satisfactory
9	30-01-2025	103.41	53.82	13.40	10.06	177.14	19.06	97	Satisfactory
10	31-01-2025	99.49	52.15	14.96	9.92	187.03	17.87	99	Satisfactory
11	01-02-2025	108.54	56.89	12.22	9.96	173.64	18.88	102	Moderate
12	02-02-2025	121.46	63.69	12.20	10.11	176.66	18.49	118	Moderate
13	03-02-2025	112.18	58.46	11.25	10.27	171.26	18.72	112	Moderate
14	04-02-2025	75.48	39.28	12.35	10.13	183.49	17.92	88	Satisfactory
15	05-02-2025	53.37	27.66	12.79	10.05	179.39	17.72	60	Satisfactory
16	06-02-2025	58.01	30.13	11.76	9.93	170.73	17.42	62	Satisfactory
17	07-02-2025	50.53	26.40	12.82	10.17	179.94	15.90	56	Satisfactory
18	08-02-2025	54.02	28.28	13.25	10.14	180.70	15.85	59	Satisfactory
19	09-02-2025	46.95	24.50	18.29	10.39	200.49	17.79	61	Satisfactory
20	10-02-2025	70.05	36.90	8.30	9.94	172.64	17.00	65	Satisfactory
21	11-02-2025	75.47	39.73	11.92	10.07	174.11	17.22	74	Satisfactory
22	12-02-2025	65.77	34.81	12.99	9.99	180.48	16.93	71	Satisfactory
23	13-02-2025	76.61	40.26	12.41	9.92	172.71	19.32	75	Satisfactory

24	14-02-2025	70.29	37.20	11.56	9.83	172.22	18.88	76	Satisfactory
25	15-02-2025	68.76	36.04	11.82	10.06	169.31	17.44	70	Satisfactory
26	16-02-2025	65.94	34.52	11.96	10.03	171.55	18.21	69	Satisfactory
27	17-02-2025	54.86	28.61	14.93	10.10	186.43	18.44	64	Satisfactory
28	18-02-2025	63.34	32.99	13.93	10.00	179.22	18.09	67	Satisfactory
29	19-02-2025	64.17	33.37	10.42	10.11	165.86	16.87	67	Satisfactory
30	20-02-2025	62.06	32.03	10.07	10.18	165.57	16.21	62	Satisfactory
31	21-02-2025	82.60	42.61	9.55	10.21	160.00	12.82	72	Satisfactory
32	01-03-2025	64.32	33.44	15.69	9.98	189.90	18.01	72	Satisfactory
33	02-03-2025	57.15	29.12	15.49	10.06	192.91	17.49	67	Satisfactory
34	03-03-2025	44.87	22.86	13.32	10.18	173.50	17.44	54	Satisfactory
35	04-03-2025	55.88	28.21	17.21	10.28	187.94	16.97	65	Satisfactory
36	05-03-2025	51.69	26.33	17.36	10.05	187.66	18.90	65	Satisfactory
37	06-03-2025	64.69	32.92	14.41	10.17	166.65	16.70	65	Satisfactory
38	07-03-2025	52.13	26.71	18.08	9.90	196.38	18.51	70	Satisfactory
39	08-03-2025	45.51	23.27	13.34	9.94	175.45	18.96	56	Satisfactory
40	09-03-2025	56.78	28.46	11.78	9.75	167.89	18.92	58	Satisfactory
41	10-03-2025	66.06	32.94	13.98	10.10	176.85	17.24	69	Satisfactory
42	11-03-2025	62.96	31.91	16.96	9.95	191.63	18.40	73	Satisfactory
43	12-03-2025	55.41	28.25	15.16	9.83	190.62	17.51	66	Satisfactory
44	13-03-2025	41.26	21.08	12.48	10.11	175.35	16.70	51	Satisfactory
45	14-03-2025	50.28	25.37	10.25	10.30	168.83	16.29	49	Good
46	15-03-2025	79.59	40.04	9.79	10.32	163.34	15.87	74	Satisfactory
47	16-03-2025	47.67	24.02	10.35	10.21	169.43	16.03	54	Satisfactory
48	17-03-2025	37.27	19.10	9.51	10.16	166.94	17.51	42	Good
49	18-03-2025	40.96	20.84	9.98	10.07	165.53	17.41	42	Good
50	19-03-2025	30.91	15.80	10.47	10.24	173.76	15.97	39	Good
51	20-03-2025	39.28	20.00	9.31	10.14	171.78	16.54	40	Good

52	21-03-2025	45.89	23.07	11.37	10.26	172.21	17.60	49	Good
53	22-03-2025	41.98	21.54	8.90	9.92	168.80	16.40	46	Good
54	23-03-2025	33.00	16.93	11.21	10.07	175.31	17.34	42	Good
55	24-03-2025	39.04	19.90	10.28	10.11	169.04	16.62	42	Good
56	25-03-2025	41.94	21.28	10.11	10.17	164.18	15.85	43	Good
57	26-03-2025	34.36	17.44	11.61	10.65	171.00	19.91	43	Good
58	27-03-2025	38.74	19.73	10.31	10.12	169.61	15.63	42	Good
59	28-03-2025	32.83	16.75	10.09	10.19	170.02	14.96	39	Good
60	29-03-2025	35.14	18.09	9.07	10.19	163.77	16.08	37	Good
61	30-03-2025	38.74	19.92	10.68	10.26	163.68	19.08	40	Good
62	31-03-2025	31.45	16.07	10.32	10.33	164.51	17.65	36	Good

Station 30: Caverem Pirla Aganwadi									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	22-01-2025	120.46	65.75	32.49	10.18	179.60	52.63	110	Moderate
2	23-01-2025	85.46	45.71	29.10	10.60	218.96	34.43	98	Satisfactory
3	24-01-2025	107.41	57.46	28.05	10.64	192.95	34.40	102	Satisfactory
4	25-01-2025	97.17	52.03	24.75	11.22	208.40	46.42	101	Moderate
5	26-01-2025	54.49	28.90	25.37	11.59	271.10	50.03	84	Satisfactory
6	27-01-2025	50.95	27.03	23.94	11.14	254.95	38.77	81	Satisfactory
7	28-01-2025	60.64	31.67	14.34	10.75	224.57	22.79	61	Satisfactory
8	29-01-2025	78.98	41.42	15.28	10.47	209.66	18.07	73	Satisfactory
9	30-01-2025	109.95	58.25	15.11	10.48	199.45	21.98	98	Satisfactory
10	31-01-2025	95.93	51.45	14.03	10.96	219.40	25.42	99	Satisfactory

11	01-02-2025	111.52	60.85	12.85	10.60	164.85	25.07	107	Moderate
12	02-02-2025	119.75	63.62	14.88	10.62	184.50	22.43	117	Moderate
13	03-02-2025	133.28	70.31	14.83	10.62	166.99	22.99	129	Moderate
14	04-02-2025	80.71	42.43	14.51	10.90	199.21	24.16	100	Moderate
15	05-02-2025	37.10	19.41	14.98	10.55	193.85	20.14	49	Satisfactory
16	06-02-2025	37.09	19.45	14.14	10.76	197.45	22.14	47	Good
17	07-02-2025	35.17	18.58	13.34	11.09	217.64	26.44	45	Good
18	08-02-2025	35.17	18.65	12.71	11.05	216.00	29.17	42	Good
19	09-02-2025	34.05	17.93	13.38	11.09	222.53	25.25	44	Good
20	10-02-2025	44.87	23.81	11.58	10.87	198.76	24.41	46	Good
21	11-02-2025	56.08	30.07	9.52	11.26	199.66	24.72	53	Good
22	12-02-2025	46.70	25.02	9.87	11.06	216.76	22.17	50	Satisfactory
23	13-02-2025	60.69	32.55	10.28	10.10	149.11	17.83	56	Good
24	14-02-2025	53.18	28.20	9.89	10.98	181.24	20.96	55	Satisfactory
25	15-02-2025	55.45	29.32	9.72	11.15	181.84	25.06	54	Satisfactory
26	16-02-2025	60.35	31.69	9.89	11.30	180.62	23.19	58	Satisfactory
27	17-02-2025	50.57	26.28	9.93	11.52	205.15	20.61	54	Satisfactory
28	18-02-2025	52.02	27.01	9.90	11.04	192.22	19.37	50	Good
29	19-02-2025	53.69	27.81	9.51	11.34	192.89	26.38	54	Satisfactory
30	20-02-2025	56.12	28.92	9.33	11.74	195.39	29.77	54	Satisfactory
31	21-02-2025	80.00	41.49	10.19	11.48	154.47	35.11	68	Satisfactory
32	01-03-2025	46.22	24.28	10.15	11.80	214.71	21.62	46	Good
33	02-03-2025	44.09	23.18	10.05	12.06	216.27	22.00	45	Good
34	03-03-2025	40.92	21.23	9.55	11.34	179.90	22.45	40	Good
35	04-03-2025	55.71	29.36	9.32	12.28	179.72	29.27	53	Satisfactory
36	05-03-2025	41.89	22.09	10.01	12.16	218.57	24.74	45	Good
37	06-03-2025	48.65	25.68	9.45	11.40	188.98	24.42	47	Good

38	07-03-2025	44.19	23.31	10.11	10.70	207.37	26.10	46	Good
39	08-03-2025	37.99	19.86	10.53	8.20	198.30	21.77	40	Good
40	09-03-2025	45.44	23.49	10.51	6.81	172.37	22.12	43	Good
41	10-03-2025	56.78	29.42	9.76	6.86	177.10	24.97	54	Satisfactory
42	11-03-2025	50.91	26.86	9.58	7.07	207.03	28.78	52	Satisfactory
43	12-03-2025	45.00	23.90	9.14	5.87	185.83	24.62	46	Good
44	13-03-2025	32.66	17.04	9.06	6.24	202.96	25.88	35	Good
45	14-03-2025	41.07	21.54	8.87	7.76	189.04	32.77	38	Good
46	15-03-2025	59.70	32.02	8.97	8.34	164.43	32.17	56	Satisfactory
47	16-03-2025	38.84	20.45	9.08	9.06	208.17	32.55	43	Good
48	17-03-2025	26.02	13.50	9.64	8.64	218.04	24.89	31	Good
49	18-03-2025	35.94	18.58	9.44	9.28	193.45	26.82	34	Good
50	19-03-2025	26.67	13.85	8.79	9.81	220.71	32.94	31	Good
51	20-03-2025	31.45	16.24	9.55	9.49	207.58	27.87	31	Good
52	21-03-2025	34.89	17.94	10.37	9.24	203.83	22.49	35	Good
53	22-03-2025	31.82	16.73	9.45	9.05	193.77	26.81	34	Good
54	23-03-2025	26.06	13.61	9.94	9.04	214.60	25.15	31	Good
55	24-03-2025	32.59	16.91	9.95	9.03	195.66	24.28	33	Good
56	25-03-2025	33.71	17.52	9.41	10.04	193.23	30.36	34	Good
57	26-03-2025	31.68	16.51	9.98	9.72	196.06	26.33	33	Good
58	27-03-2025	32.52	16.94	9.34	10.20	203.32	29.91	33	Good
59	28-03-2025	28.68	15.05	9.18	10.29	206.46	31.39	31	Good
60	29-03-2025	31.28	16.41	9.38	10.30	188.84	29.32	31	Good
61	30-03-2025	33.49	17.37	9.91	10.45	183.87	23.66	34	Good
62	31-03-2025	25.82	13.30	9.71	10.55	198.12	25.78	32	Good

Station 31: Govt Primary School, Sanvordem									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	26-02-2025	61.08	32.15	20.55	12.32	551.77	11.78	79	Satisfactory
2	27-02-2025	66.15	34.88	19.24	12.40	452.72	11.50	76	Satisfactory
3	28-02-2025	76.89	40.82	15.18	12.50	372.11	10.89	79	Satisfactory
4	01-03-2025	78.77	41.58	17.91	12.63	431.32	11.44	87	Satisfactory
5	02-03-2025	64.79	34.18	16.62	12.44	425.77	11.09	77	Satisfactory
6	03-03-2025	54.29	28.23	11.41	12.53	362.21	11.21	59	Satisfactory
7	04-03-2025	68.06	35.58	9.79	12.31	399.03	11.01	67	Satisfactory
8	05-03-2025	65.01	34.13	13.47	12.44	458.91	11.13	71	Satisfactory
9	06-03-2025	70.08	36.62	9.79	12.45	465.31	11.18	70	Satisfactory
10	07-03-2025	69.16	36.06	13.38	12.45	453.07	10.96	75	Satisfactory
11	08-03-2025	63.03	32.81	10.10	12.56	433.47	11.31	65	Satisfactory
12	09-03-2025	66.51	34.17	5.03	12.57	397.53	11.32	64	Satisfactory
13	10-03-2025	83.07	42.44	4.78	12.50	436.07	11.25	80	Satisfactory
14	11-03-2025	82.23	42.74	10.03	12.35	471.60	10.66	84	Satisfactory
15	12-03-2025	69.11	36.31	14.71	12.55	454.22	10.48	76	Satisfactory
16	13-03-2025	50.79	26.35	7.63	12.57	378.13	9.87	55	Satisfactory
17	14-03-2025	61.57	32.09	3.45	12.62	393.21	9.96	58	Satisfactory
18	15-03-2025	89.02	46.73	2.60	12.66	379.38	9.88	83	Satisfactory
19	16-03-2025	56.43	29.29	1.61	12.71	432.07	9.78	63	Satisfactory
20	17-03-2025	46.38	23.96	1.72	12.66	423.43	10.31	48	Good
21	18-03-2025	52.23	26.83	1.99	12.72	426.29	10.40	50	Good
22	19-03-2025	39.66	20.48	2.02	12.76	441.50	10.09	42	Good
23	20-03-2025	46.74	24.05	2.07	12.72	425.84	10.44	44	Good

24	21-03-2025	56.00	28.75	2.04	12.52	429.78	10.75	55	Satisfactory
25	22-03-2025	47.18	24.51	4.12	12.58	451.33	10.67	49	Good
26	23-03-2025	41.13	21.42	4.49	12.67	441.26	10.22	41	Good
27	24-03-2025	50.64	26.15	3.12	12.60	384.31	10.42	48	Good
28	25-03-2025	50.78	26.16	2.18	12.50	369.25	9.89	50	Good
29	26-03-2025	41.04	21.08	3.23	12.55	463.64	11.09	42	Good
30	27-03-2025	37.48	19.26	3.85	12.51	488.73	10.86	39	Good
31	28-03-2025	36.37	18.80	3.93	12.32	471.50	10.84	36	Good
32	29-03-2025	41.28	21.08	4.66	12.80	507.33	10.72	47	Good
33	30-03-2025	53.98	27.79	2.46	12.63	422.45	10.58	51	Satisfactory
34	31-03-2025	49.25	25.30	1.55	12.53	425.34	9.91	50	Good

Station 32: Mr.Caitano Dcosta, Tollem Bus Stand, Sanvordem, Nearby Capxem Jetty									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	26-02-2025	68.38	37.38	0.96	6.45	1044.34	13.08	75	Satisfactory
2	27-02-2025	72.50	39.43	0.86	7.52	941.84	12.65	71	Satisfactory
3	28-02-2025	79.87	43.95	0.80	7.08	1073.30	12.80	77	Satisfactory
4	01-03-2025	83.24	46.44	0.75	7.28	1246.14	12.84	83	Satisfactory
5	02-03-2025	74.93	41.66	0.73	7.49	1073.74	12.85	78	Satisfactory
6	03-03-2025	64.94	35.10	0.68	7.76	1004.99	12.65	65	Satisfactory
7	04-03-2025	75.55	41.81	0.66	5.47	996.03	12.89	73	Satisfactory
8	05-03-2025	73.80	40.47	0.64	7.34	987.58	13.00	75	Satisfactory
9	06-03-2025	69.54	38.00	0.62	6.19	993.29	13.05	70	Satisfactory

10	07-03-2025	57.75	31.87	0.79	11.94	717.01	13.30	64	Satisfactory
11	08-03-2025	61.08	33.13	0.58	5.50	938.41	13.26	60	Satisfactory
12	09-03-2025	65.59	35.49	0.54	2.18	1013.02	13.44	63	Satisfactory
13	10-03-2025	77.80	43.05	0.56	4.77	941.64	13.33	75	Satisfactory
14	11-03-2025	77.78	43.57	0.59	5.16	1007.05	13.60	78	Satisfactory
15	12-03-2025	65.43	36.37	0.57	7.42	1011.34	13.27	69	Satisfactory
16	13-03-2025	44.18	24.85	0.53	4.72	977.14	13.10	48	Good
17	14-03-2025	56.95	31.93	0.49	2.13	956.16	13.26	53	Satisfactory
18	15-03-2025	65.61	36.61	0.50	1.94	936.36	13.26	63	Satisfactory
19	16-03-2025	45.56	25.91	0.49	1.97	983.68	13.32	50	Good
20	17-03-2025	39.04	22.23	0.47	2.06	904.96	13.52	41	Good
21	18-03-2025	42.70	24.16	0.47	2.14	901.33	13.55	41	Good
22	19-03-2025	33.61	19.19	0.49	2.57	1162.49	13.50	35	Good
23	20-03-2025	44.18	24.77	0.45	2.56	1208.42	13.48	40	Good
24	21-03-2025	56.60	31.00	0.46	2.85	1193.11	13.81	56	Satisfactory
25	22-03-2025	43.25	24.07	0.46	5.57	1133.53	13.74	46	Good
26	23-03-2025	33.40	19.21	0.46	5.67	1058.53	13.63	35	Good
27	24-03-2025	45.72	25.65	0.45	3.46	888.72	13.69	43	Good
28	25-03-2025	52.82	29.36	0.44	2.50	586.30	13.76	51	Satisfactory
29	26-03-2025	39.95	22.69	0.43	2.83	595.60	13.90	43	Good
30	27-03-2025	43.46	24.34	0.46	2.46	744.16	13.80	43	Good
31	28-03-2025	41.94	23.39	0.45	2.54	718.37	13.67	41	Good
32	29-03-2025	41.17	23.08	0.42	2.32	732.09	13.67	40	Good
33	30-03-2025	45.51	25.09	1.31	2.09	1072.98	13.88	45	Good
34	31-03-2025	30.94	17.43	0.57	2.18	1116.88	13.76	32	Good

Station 33: Mr.Aakash Naik Tishem, Borim, Nearby Old Bridge									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	26-02-2025	67.87	37.63	4.46	7.89	273.79	15.36	71	Satisfactory
2	27-02-2025	74.75	41.29	4.39	7.46	250.76	15.27	73	Satisfactory
3	28-02-2025	78.38	43.33	4.39	8.20	226.08	14.33	77	Satisfactory
4	01-03-2025	73.83	41.04	4.39	8.62	224.18	16.03	75	Satisfactory
5	02-03-2025	70.80	39.55	4.39	8.52	199.33	9.00	72	Satisfactory
6	03-03-2025	52.23	29.85	4.39	8.21	192.00	15.41	55	Satisfactory
7	04-03-2025	62.88	35.13	4.39	8.26	193.53	21.55	60	Satisfactory
8	05-03-2025	72.11	39.87	4.42	8.45	175.86	21.72	71	Satisfactory
9	06-03-2025	65.32	36.46	4.42	7.91	185.25	25.59	65	Satisfactory
10	07-03-2025	68.17	37.66	4.42	7.17	179.49	22.48	69	Satisfactory
11	08-03-2025	66.96	36.61	4.39	7.29	163.74	24.30	66	Satisfactory
12	09-03-2025	83.72	45.37	4.39	7.93	144.98	25.27	79	Satisfactory
13	10-03-2025	86.13	46.87	4.45	7.63	155.12	19.63	85	Satisfactory
14	11-03-2025	80.19	44.11	4.50	7.77	177.12	23.78	82	Satisfactory
15	12-03-2025	74.68	41.00	4.43	7.64	162.59	14.85	76	Satisfactory
16	13-03-2025	65.47	36.18	4.39	7.50	152.40	12.03	66	Satisfactory
17	14-03-2025	55.42	31.60	4.40	9.85	197.10	13.39	56	Satisfactory
18	15-03-2025	76.27	42.23	4.39	8.01	139.18	11.51	71	Satisfactory
19	16-03-2025	65.11	35.93	4.39	8.40	156.87	16.81	69	Satisfactory
20	17-03-2025	52.72	29.17	4.39	7.71	155.59	16.77	55	Satisfactory
21	18-03-2025	61.49	33.41	4.39	8.01	145.11	16.97	60	Satisfactory
22	19-03-2025	44.84	24.74	4.39	8.13	157.05	14.68	49	Good
23	20-03-2025	58.81	32.13	4.39	7.89	144.93	19.52	54	Satisfactory

24	21-03-2025	69.38	37.36	4.39	8.40	144.00	20.44	68	Satisfactory
25	22-03-2025	51.94	28.81	4.39	7.97	145.45	14.33	56	Satisfactory
26	23-03-2025	47.59	26.57	4.39	8.38	145.62	20.80	48	Good
27	24-03-2025	59.12	32.42	4.39	7.77	133.57	14.84	57	Satisfactory
28	25-03-2025	59.44	32.74	4.39	8.51	130.02	17.17	57	Satisfactory
29	26-03-2025	54.84	30.72	4.39	8.35	130.39	17.86	57	Satisfactory
30	27-03-2025	55.54	30.41	4.39	7.99	142.53	11.69	56	Satisfactory
31	28-03-2025	49.11	27.19	4.39	8.06	137.35	12.75	50	Good
32	29-03-2025	58.11	31.70	4.39	8.38	123.64	18.42	54	Satisfactory
33	30-03-2025	62.25	33.59	4.39	8.87	133.19	18.00	63	Satisfactory
34	31-03-2025	46.15	24.93	4.39	8.42	138.18	15.91	48	Good

Station 34: Ravindra Bhavan, Curchorem Circle									
Sr. No		Time Weighted Average (TWA)						AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3)							
	Date	PM10	PM2.5	SO2	NO2	*CO	O3		
1	26-02-2025	79.87	50.48	5.24	9.66	521.62	14.71	91	Satisfactory
2	27-02-2025	91.20	58.03	5.24	8.37	434.90	18.54	97	Satisfactory
3	28-02-2025	97.16	63.82	5.38	7.62	432.19	16.57	110	Moderate
4	01-03-2025	101.67	68.09	5.37	7.66	429.01	17.24	128	Moderate
5	02-03-2025	87.62	57.95	5.30	7.83	463.33	16.27	110	Moderate
6	03-03-2025	81.18	50.59	5.99	6.96	376.41	18.69	85	Satisfactory
7	04-03-2025	90.77	58.99	5.61	8.11	395.39	17.62	97	Satisfactory
8	05-03-2025	86.26	54.90	5.98	8.46	404.53	17.19	96	Satisfactory
9	06-03-2025	88.05	57.63	5.41	8.10	374.14	14.81	97	Satisfactory
10	07-03-2025	90.15	59.97	6.35	7.52	371.99	14.75	106	Moderate
11	08-03-2025	76.82	49.07	5.69	7.10	342.40	13.04	87	Satisfactory

12	09-03-2025	86.15	55.56	3.78	7.13	286.65	14.10	89	Satisfactory
13	10-03-2025	100.33	68.01	4.35	7.64	298.98	13.38	119	Moderate
14	11-03-2025	105.04	71.61	4.69	7.29	339.21	17.63	141	Moderate
15	12-03-2025	91.18	61.52	4.97	6.06	333.29	15.83	118	Moderate
16	13-03-2025	70.92	44.63	4.17	6.22	318.82	14.82	79	Satisfactory
17	14-03-2025	85.04	53.32	3.50	7.32	285.27	16.77	84	Satisfactory
18	15-03-2025	107.62	73.67	2.99	6.94	237.48	14.31	133	Moderate
19	16-03-2025	77.77	48.43	2.47	7.19	295.69	15.26	90	Satisfactory
20	17-03-2025	59.88	37.98	2.66	7.11	296.85	9.42	67	Satisfactory
21	18-03-2025	73.15	45.01	2.99	7.19	262.11	10.26	72	Satisfactory
22	19-03-2025	54.48	34.92	2.95	7.36	280.31	11.91	62	Satisfactory
23	20-03-2025	64.30	40.32	3.04	6.73	253.84	14.42	64	Satisfactory
24	21-03-2025	75.86	48.61	3.01	6.47	262.00	14.95	80	Satisfactory
25	22-03-2025	65.11	40.77	3.88	6.30	259.57	13.95	70	Satisfactory
26	23-03-2025	57.00	36.83	3.65	6.42	287.25	17.15	62	Satisfactory
27	24-03-2025	71.22	45.30	3.96	5.65	233.84	11.97	73	Satisfactory
28	25-03-2025	69.61	43.27	3.35	6.18	223.70	13.82	71	Satisfactory
29	26-03-2025	66.16	41.44	3.84	5.18	245.04	10.64	69	Satisfactory
30	27-03-2025	66.58	42.52	3.44	6.54	234.82	13.83	71	Satisfactory
31	28-03-2025	55.71	35.82	3.44	6.91	231.59	16.07	61	Satisfactory
32	29-03-2025	59.51	37.63	3.14	6.66	214.31	13.49	61	Satisfactory
33	30-03-2025	64.74	40.26	3.21	7.60	230.84	7.20	67	Satisfactory
34	31-03-2025	47.84	31.97	2.96	9.22	250.68	7.31	55	Satisfactory

ANNEXURE XIII

LIST OF AAQM MONITORING STATIONS FOR MSW SITE

Sr. No.	Name of location	Name of municipal council
	NORTH GOA	
1.	Near main gate of plant , MSW site Valpoi Municipal Council	Valpoi Municipal Council
2.	Behind plant (within premises), MSW site Valpoi Municipal Council	
3.	Near solid waste dump MSW site Valpoi Municipal Council	
4.	Near Office block of the plant MSW site Pernem Municipal Council	Pernem Municipal Council
5.	Back side of plant (within Premises) MSW site Pernem Municipal Council	
6.	Near weigh bridge at SWM site of Bicholim municipal council	Bicholim municipal council
7.	Near solid waste dump of SWM site of Bicholim municipal council	
8.	Near Ground slab at SWM site of Bicholim municipal council	
9.	Near leachet tank at SWM site Sakhalim municipal council	Sakhalim municipal council
10.	Near Compound wall at SWM site Sakhalim municipal council	
11.	Near Security gate of SWM site Sakhalim municipal council	
12.	Near solid waste dump (Right side of bailing machine) SWM site of Ponda municipal council	Ponda municipal council
13.	Near main gate of plant SWM site of Ponda municipal council	
14.	Front side Near bailing machineof SWM site at Ponda municipal council	
	SOUTH GOA	
15.	On the Open Terrace of Security Cabin, MSW site Cuncolim Municipal Council	Cuncolim Municipal Council
16.	Near Bailing Station, MSW site Cuncolim Municipal Council	
17.	Near the Solid Waste Dump , MSW site Cuncolim Municipal Council	
18.	On the Open Terrace of Security Cabin, MSW site Canacona Municipal Council	Canacona Municipal Council
19.	Near Bailing Station MSW site Canacona Municipal Council	
20.	On the Top of the Security Cabin Near Entrance Gate, MSW site Quepem Municipal Council	Quepem Municipal Council
21.	MSW site Near the Landfill Site, Quepem Municipal Council	
22.	Near Entrance Gate Vasudha Waste Treatment Pvt Ltd (MSW Treatment plant,) Curchorem	Solid waste management plant (Vasudha Waste Treatment Pvt Ltd) cacoraCurchorem
23.	Periphery of Vasudha Waste Treatment Pvt Ltd (MSW Treatment plant,) Curchorem	
24.	At Entrance Near Security Cabin, MSW site Margao Municipal Council	Margao Municipal Council
25.	Near Administrative Building, MSW site Margao Municipal Council	
26.	Near Old Waste Dump (Legacy Waste) MSW site Margao Municipal Council	

27.	Near Entrance Gate of Proposed MRF Shed, MSW site Mormugoa Municipal Council	Mormugoa Municipal Council
28.	Near Biogas Plant, MSW site Mormugoa Municipal Council	
29.	Opposite to Present Bailing Station, MSW site Mormugoa Municipal Council	

Data for Ambient Air Quality Monitoring at Municipal Waste sites & landfill site in the state of Goa.

NORTH GOA

Station:- Near Weigh Bridge at MSW site of Bicholim Municipal council														City:-Bicholim	
Duration:- March 2025															
Sr. No	Date	Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
		Pollutants concentration in μg/m3 (except for CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
		PM 10	PM 2.5	SO2	NO2	CO	O3	NH3	Pb	C6H6	BaP	Ni	As		
1	03-03-2025	92	43	8	12	0.67	16	31	0.04	BDL	BDL	5.82	BDL	92	Satisfactory
2	06-03-2025	84	35	12	16	0.73	15	29	0.07	BDL	BDL	6.73	BDL	84	Satisfactory
3	10-03-2025	79	35	11	14	0.89	15	32	0.05	BDL	BDL	4.18	BDL	79	Satisfactory
4	13-03-2025	84	38	9	13	0.54	14	28	0.02	BDL	BDL	7.24	BDL	84	Satisfactory

Station:- Near Solid waste dump of MSW site of Bicholim Municipal council														City:-Bicholim	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	03-03-2025	80	35	8	12	0.97	14	35	0.04	BDL	BDL	7	BDL	80	Satisfactory
2	06-03-2025	82	36	11	15	0.68	17	32	0.02	BDL	BDL	5	BDL	82	Satisfactory
3	10-03-2025	72	36	9	15	0.59	15	36	0.03	BDL	BDL	4	BDL	72	Satisfactory
4	13-03-2025	76	32	10	13	0.83	15	34	0.05	BDL	BDL	7	BDL	76	Satisfactory

Station:- Near Ground slab at MSW site of Bicholim Municipal council														City:-Bicholim	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	03-03-2025	85	38	11	17	0.78	16	27	0.03	BDL	BDL	8.83	BDL	85	Satisfactory
2	06-03-2025	83	34	7	14	0.69	18	30	0.05	BDL	BDL	4.26	BDL	83	Satisfactory
3	10-03-2025	77	29	9	14	0.71	17	25	0.08	BDL	BDL	7.79	BDL	77	Satisfactory
4	13-03-2025	81	33	8	12	0.83	15	29	0.02	BDL	BDL	6.25	BDL	81	Satisfactory

Station:- Back side of plant (Within premises) MSW Site Pernem Municipal councilCity:-Pernem															
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	13-03-2025	51	28	7	12	0.68	14	31	0.03	BDL	BDL	5.83	BDL	51	Satisfactory
2	15-03-2025	59	32	9	14	0.79	17	33	0.05	BDL	BDL	3.49	BDL	59	Satisfactory
3	18-03-2025	56	26	8	15	0.91	18	29	0.02	BDL	BDL	6.13	BDL	56	Satisfactory
4	21-03-2025	63	29	7	14	0.86	17	25	0.04	BDL	BDL	4.34	BDL	63	Satisfactory

Station:- Near Office block of the plant MSW Site Pernem Municipal councilCity:-Pernem															
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	13-03-2025	58	24	6	13	0.54	13	30	0.03	BDL	BDL	3.26	BDL	58	Satisfactory
2	15-03-2025	64	31	9	15	0.71	16	31	0.02	BDL	BDL	5.83	BDL	64	Satisfactory
3	18-03-2025	52	20	7	14	0.68	18	35	0.02	BDL	BDL	4.91	BDL	52	Satisfactory
4	21-03-2025	62	29	8	14	0.59	16	28	0.04	BDL	BDL	6.22	BDL	62	Satisfactory

Station:- Near Solid waste dump(Right side of bailng machine) MSW site of Ponda Municipal council													City:- Ponda	
Duration:- March 2025														
Sr. No		Time Weighted Average (TWA)											AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr	
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)												
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	18-03-2025	64	29	9	15	0.87	12	29	0.06	BDL	BDL	8.25	BDL	64	Satisfactory
2	22-03-2025	68	33	11	16	0.56	16	33	0.02	BDL	BDL	7.19	BDL	68	Satisfactory
3	25-03-2025	55	24	8	13	0.73	14	27	0.04	BDL	BDL	6.33	BDL	55	Satisfactory
4	28-03-2025	60	28	7	12	0.95	11	31	0.02	BDL	BDL	9.12	BDL	60	Satisfactory

Station:- Near Main gate of plant MSW Site of Ponda municipal council														City:- Ponda	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	18-03-2025	66	29	7	13	0.89	15	27	0.02	BDL	BDL	5.34	BDL	66	Satisfactory
2	22-03-2025	71	34	10	16	0.78	17	30	0.05	BDL	BDL	7.16	BDL	71	Satisfactory
3	25-03-2025	66	31	9	13	0.67	14	29	0.03	BDL	BDL	4.58	BDL	66	Satisfactory
4	28-03-2025	69	36	8	15	0.83	15	26	0.02	BDL	BDL	3.71	BDL	69	Satisfactory

Station:- Front side Near bailing machine of MSW site at Ponda Municipal council														City:- Ponda	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	18-03-2025	62	25	8	13	0.54	10	31	0.05	BDL	BDL	6.83	BDL	62	Satisfactory
2	22-03-2025	59	23	9	15	0.61	16	33	0.02	BDL	BDL	9.41	BDL	59	Satisfactory
3	25-03-2025	54	21	9	15	0.73	15	29	0.07	BDL	BDL	5.22	BDL	54	Satisfactory
4	28-03-2025	64	28	7	11	0.49	16	34	0.04	BDL	BDL	3.94	BDL	64	Satisfactory

Station:-Near Compound wall at MSW site Sakhalim Municipal council														City:-Sanquelim	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	03-03-2025	74	30	10	14	0.94	13	32	0.05	BDL	BDL	5.97	BDL	74	Satisfactory
2	06-03-2025	69	26	8	13	0.87	11	28	0.09	BDL	BDL	2.68	BDL	69	Satisfactory
3	10-03-2025	75	31	11	16	0.91	17	32	0.07	BDL	BDL	4.77	BDL	75	Satisfactory
4	13-03-2025	71	29	9	15	0.78	14	25	0.03	BDL	BDL	3.21	BDL	71	Satisfactory

Station:- Near Security Gate of MSW site Sakhalim Municipal Council														City:-Sanquelim	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	03-03-2025	63	25	7	12	0.76	16	3	0.0333	BDL	BDL	2.6667	BDL	63	Satisfactory
2	06-03-2025	69	32	9	14	0.83	16	4	0.02	BDL	BDL	3.57	BDL	69	Satisfactory
3	10-03-2025	74	35	11	16	0.51	13	2	0.04	BDL	BDL	2.20	BDL	74	Satisfactory
4	13-03-2025	65	30	8	13	0.65	17	5	0.55	BDL	BDL	4.55	BDL	65	Satisfactory

Station:- Near Leachet Tank at MSW site Sakhalim Municipal Council														City:-Sanquelim	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	03-03-2025	60	25	7	13	0.87	13	28	0.0667	BDL	BDL	2.39	BDL	60	Satisfactory
2	06-03-2025	65	31	8	14	0.76	15	31	0.03	BDL	BDL	4.56	BDL	65	Satisfactory
3	10-03-2025	57	23	7	12	0.91	14	29	0.05	BDL	BDL	3.18	BDL	57	Satisfactory
4	13-03-2025	61	25	10	15	0.57	12	31	0.02	BDL	BDL	5.24	BDL	61	Satisfactory

Station:- Near Main gate of plant, MSW Site Valpoi Municipal councilCity:-Valpoi															
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24- Hr	8-Hr	24-Hr	24- Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	13-03-2025	67	33	7	13	0.73	13	29	0.0367	BDL	BDL	5.6533	BDL	67	Satisfactory
2	15-03-2025	62	26	9	16	0.61	15	26	0.03	BDL	BDL	7.18	BDL	62	Satisfactory
3	18-03-2025	59	31	8	14	0.95	12	31	0.05	BDL	BDL	6.42	BDL	59	Satisfactory
4	21-03-2025	67	28	10	14	0.84	15	32	0.02	BDL	BDL	5.74	BDL	67	Satisfactory

Station:- Behind Plant (Within premises), msw site Valpoi Municipal council														City:-Valpoi	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	13-03-2025	79	33	8	15	0.72	14	28	0.05	BDL	BDL	6.48	BDL	79	Satisfactory
2	15-03-2025	82	37	9	18	0.91	17	32	0.07	BDL	BDL	9.25	BDL	82	Satisfactory
3	18-03-2025	74	28	7	15	0.87	13	26	0.03	BDL	BDL	7.13	BDL	74	Satisfactory
4	21-03-2025	76	31	8	16	0.63	15	31	0.02	BDL	BDL	8.67	BDL	76	Satisfactory

Station:- Near Solid waste dump MSW Site, Valpoi Municipal council														City:-Valpoi	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	13-03-2025	84	36	9	16	0.74	13	27	0.03	BDL	BDL	7.63	BDL	84	Satisfactory
2	15-03-2025	86	40	10	18	0.89	17	30	0.05	BDL	BDL	9.11	BDL	86	Satisfactory
3	18-03-2025	79	34	8	15	0.93	15	30	0.08	BDL	BDL	6.44	BDL	79	Satisfactory
4	21-03-2025	81	36	9	18	0.67	15	25	0.04	BDL	BDL	8.32	BDL	81	Satisfactory

SOUTH GOA

Station:- On the Open Terrace of Security Cabin MSW Site, Cuncolim Municipal council.														City:-Cuncolim	
Duration:- February 2025															
Sr. No	Date	Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
		Pollutants concentration in μg/m3 (except for CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
		PM_{10}	$PM_{2.5}$	SO_2	NO_2	CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	80	35	11	14	0.89	17	30	0.09	BDL	BDL	2.06	BDL	80	Satisfactory
2	14-02-2025	73	32	8	13	0.71	14	27	0.06	BDL	BDL	1.87	BDL	73	Satisfactory
3	17-02-2025	68	29	9	15	0.82	19	31	0.07	BDL	BDL	3.17	BDL	68	Satisfactory
4	21-02-2025	70	33	9	15	0.93	15	24	0.05	BDL	BDL	5.12	BDL	70	Satisfactory

Station:- Near Bailing Station, MSW site cuncolim Municipal Council														City:-Cuncolim	
Duration:- February 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	73	35	9	13	1.1	14	37	0.06	BDL	BDL	8	BDL	73	Satisfactory
2	14-02-2025	71	34	9	15	0.87	18	31	0.08	BDL	BDL	5	BDL	71	Satisfactory
3	17-02-2025	76	35	9	14	0.91	18	35	0.04	BDL	BDL	6	BDL	76	Satisfactory
4	21-02-2025	64	29	8	13	0.86	17	33	0.05	BDL	BDL	8	BDL	64	Satisfactory

Station:- Near the Solid Waste Dump, MSW Site Cuncolim Municipal councilCity:-Cuncolim															
Duration:- February 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	69	34	10	16	0.88	20	28	0.03	BDL	BDL	2.32	BDL	69	Satisfactory
2	14-02-2025	81	44	13	17	1.17	19	31	0.07	BDL	BDL	6.45	BDL	81	Satisfactory
3	17-02-2025	77	40	12	18	1.21	22	28	0.02	BDL	BDL	2.59	BDL	77	Satisfactory
4	21-02-2025	72	35	11	16	1.03	20	25	0.08	BDL	BDL	4.69	BDL	72	Satisfactory

Station:- Near Entrance Gate Vasudha Waste Treatment Pvt Ltd. (MSW Treatment plant) CurchoremCity:-Curchorem															
Duration:- February 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	72	34	12	17	0.88	19	28	0.07	BDL	BDL	7.25	BDL	72	Satisfactory
2	14-02-2025	64	30	9	14	1.07	16	21	0.04	BDL	BDL	9.52	BDL	64	Satisfactory
3	17-02-2025	76	36	11	16	0.95	20	28	0.09	BDL	BDL	11.28	BDL	76	Satisfactory
4	21-02-2025	68	33	9	17	1.16	17	22	0.06	BDL	BDL	8.34	BDL	68	Satisfactory

Station:- Periphery of Vasudha Waste Treatment Pvt. Ltd. (MSW Treatment plant), CurchoremCity:-Curchorem															
Duration:- February 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	74	34	10	16	1.07	17	32	0.05	BDL	BDL	8.34	BDL	74	Satisfactory
2	14-02-2025	73	32	8	14	1.15	19	35	0.08	BDL	BDL	7.68	BDL	73	Satisfactory
3	17-02-2025	67	28	9	15	1.23	18	34	0.06	BDL	BDL	9.17	BDL	67	Satisfactory
4	21-02-2025	76	35	11	16	1.06	19	33	0.09	BDL	BDL	10.58	BDL	76	Satisfactory

Station:- At Entrance Near Security Cabin, MSW Site, Margao Municipal council City:-Margao															
Duration:- February / March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	25-02-2025	65	27	8	13	0.76	18	33	0.04	BDL	BDL	12.16	BDL	65	Satisfactory
2	27-02-2025	56	22	9	15	0.92	17	35	0.03	BDL	BDL	10.82	BDL	56	Satisfactory
3	03-03-2025	61	24	8	13	0.83	19	31	0.06	BDL	BDL	11.49	BDL	61	Satisfactory
4	06-03-2025	67	29	10	16	0.61	15	31	0.02	BDL	BDL	9.52	BDL	67	Satisfactory

Station:- Near Administrative Building, MSW Site Margao Municipal Council														City:-Margao	
Duration:- February / March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	25-02-2025	35	26	7	14	0.69	15	30	0.07	BDL	BDL	10.71	BDL	43	Good
2	27-02-2025	38	32	8	15	0.83	18	32	0.03	BDL	BDL	8.25	BDL	53	Satisfactory
3	03-03-2025	32	23	8	12	0.71	19	28	0.04	BDL	BDL	7.14	BDL	39	Good
4	06-03-2025	36	28	8	13	0.55	19	31	0.06	BDL	BDL	9.46	BDL	46	Good

Station:- Near Old waste dump (Legacy waste) MSW Site, Margao Municipal council														City:-Margao	
Duration:- February / March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	25-02-2025	66	28	8	13	0.78	14	35	0.03	BDL	BDL	9.58	BDL	66	Satisfactory
2	27-02-2025	68	31	9	13	0.91	16	32	0.05	BDL	BDL	10.96	BDL	68	Satisfactory
3	03-03-2025	71	33	10	15	0.68	19	29	0.02	BDL	BDL	8.44	BDL	71	Satisfactory
4	06-03-2025	59	25	9	12	0.83	16	30	0.03	BDL	BDL	9.14	BDL	59	Satisfactory

Station:-Near Entrance Gate of Proposed MRF Shed, MSW Site, Mormugoa Municipal council Mormugoa														City:-	
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	18-03-2025	65	27	8	13	0.76	17.63	33	0.04	BDL	BDL	12.16	BDL	65	Satisfactory
2	22-03-2025	56	22	9	15	0.92	16.70	35	0.03	BDL	BDL	10.82	BDL	56	Satisfactory
3	25-03-2025	61	24	8	13	0.83	18.56	31	0.06	BDL	BDL	11.49	BDL	61	Satisfactory
4	28-03-2025	67	29	10	16	0.61	15.47	32	0.02	BDL	BDL	9.52	BDL	67	Satisfactory

Station:- Near Biogas plant, MSW Site Mormugoa Municipal councilCity:-Mormugoa															
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	18-03-2025	59	25	10	14	0.65	14	33	0.05	BDL	BDL	12.55	BDL	59	Satisfactory
2	22-03-2025	63	27	10	13	0.78	16	32	0.02	BDL	BDL	10.83	BDL	63	Satisfactory
3	25-03-2025	53	25	9	11	0.59	15	35	0.04	BDL	BDL	9.71	BDL	53	Satisfactory
4	28-03-2025	60	30	11	14	0.51	17	33	0.03	BDL	BDL	13.46	BDL	60	Satisfactory

Station:- Opposite to present bailing station, MSW Site mormugoa Municipal council City:-Mormugoa															
Duration:- March 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	18-03-2025	65	32	9	15	0.78	17	35	0.06	BDL	BDL	10.49	BDL	65	Satisfactory
2	22-03-2025	68	34	10	15	0.96	19	33	0.03	BDL	BDL	9.86	BDL	68	Satisfactory
3	25-03-2025	59	28	8	13	0.63	19	37	0.07	BDL	BDL	11.56	BDL	59	Satisfactory
4	28-03-2025	66	30	8	13	0.85	18	31	0.04	BDL	BDL	10.05	BDL	66	Satisfactory

Station:- On the Top of the Security cabin Near Entrance Gate MSW Site Quepem Municipal Council Quepem															City:-
Duration:- February 2025															
Sr. No		Time Weighted Average (TWA)												AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)													
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	72	34	10	14	0.63	14	31	0.07	BDL	BDL	8.52	BDL	72	Satisfactory
2	14-02-2025	79	39	8	13	0.97	11	30	0.05	BDL	BDL	10.34	BDL	79	Satisfactory
3	17-02-2025	66	31	10	15	0.58	16	29	0.08	BDL	BDL	5.47	BDL	66	Satisfactory
4	21-02-2025	73	36	10	13	0.84	19	33	0.03	BDL	BDL	7.26	BDL	73	Satisfactory

Station:- MSW site Near the Landfill Site, Quepem Municipal Council													City:-Quepem	
Duration:- February 2025														
Sr. No		Time Weighted Average (TWA)											AQI	AIR QLTY
		24-Hr	24-Hr	24-Hr	24-Hr	8-Hr	8-Hr	24-Hr	24-Hr	8-Hr	24-Hr	24-Hr	24-Hr		
	Parameters	Pollutants concentration in μg/m3 (except for *CO which is in mg/m3 and BaP/As/Ni in ng/m3)												
	Date	PM_{10}	$PM_{2.5}$	SO_2	NO_2	*CO	O_3	NH_3	Pb	C_6H_6	BaP	Ni	As		
1	11-02-2025	74	35	8	13	1.13	18	33	0.07	BDL	BDL	7.45	BDL	74	Satisfactory
2	14-02-2025	84	41	11	17	0.89	17	34	0.09	BDL	BDL	10.55	BDL	84	Satisfactory
3	17-02-2025	77	37	9	15	1.06	15	27	0.03	BDL	BDL	6.21	BDL	77	Satisfactory
4	21-02-2025	72	32	8	13	1.15	19	24	0.05	BDL	BDL	8.47	BDL	72	Satisfactory

ANNEXURE-XIV

THE DETAILS OF THE STACK EMISSION MONITORING CONDUCTED ARE PRESENTED BELOW.

Sr. No.	Area	Name of Unit	Type of Stack	Date of Sampling
1	Cuncolim Ind. Estate	M/s. Global Ispat Pvt Ltd	Induction Furnace 1 (8 MT)	16.04.24
2	Cuncolim Industrial Estate	M/s. Sunrise Electromelt Ltd	Reheating Furnace (3500 MT/Month)	18.04.24
3	Cuncolim Ind. Estate	M/s. Shri Balaji Rollings Pvt Ltd	Induction Furnace (12 MT)	22.04.24
4	Cuncolim Ind. Estate	M/s. Karthik Induction Ltd. (Rolling Division)	Reheating Furnace (7 MT/hr)	24.04.24
5	Cuncolim Ind. Estate	M/s. Malco Energy Ltd. (MEL)	Boiler (4 MT/hr)	26.04.24
6	Margao Ind. Estate	M/s. Goa Carbon Ltd.	Rotary Kiln (100000 Mt/annum)	08.05.24
7	Cuncolim Ind. Estate	M/s. Pioneer Alloys & Steel India Pvt. Ltd.	Rolling Mill Furnace (10 MT)	10.05.24
8	Bethora – Ponda, Goa	M/S. United Breweries Ltd,	Boiler (8T/ hr)	13.05.24
9	Bethora – Ponda, Goa	M/S. United Breweries Ltd,	Boiler (8T/ hr)	15.05.24
10	Marvasado, Usgaon ,	M/S.Procter& Gamble Health Limited	Boiler (6T/ hr)	17.05.24
11	Verna Ind. Estate	M/s.FDC Limited	Boiler(600Kg/hr)	20.05.24
12	Honda Ind Estate	M/s. Sukraft Recycling Pvt Ltd	Boiler 22TPH	22.05.24
13	Porvorim, Bardez	M/s. Golden Peace Hotels & Resorts Pvt. Ltd. (Neo Majestic)	DG (380 KVA)	24.05.24
14	Anjuna, Bardez	M/s. Argon Hotels Private Limited (Fairfield by Marriott)	DG (380 KVA)	29.05-24
15	Anjuna, Bardez	M/s. Pacifica Hotels Pvt. Ltd	DG (750 KVA)	31.05.24
16	Saligao – Bardez Goa	Goa State Pollution Control Board	DG (400 KVA)	06.06.24
17	Saligao – Bardez Goa	Goa State Pollution Control Board	Wet Scrubber	19.06.24
18	PilerneInd.Estate	M/s. Unichem Laboratories Limited	DG (1250 KVA)	09.11.24
19	PilerneInd.Estate	M/s. Unichem Laboratories Limited	DG (1250 KVA)	09.11.24
20	Navelim Village, Bicholim.	M/s. Vedanta Limited (Sinter Plant)	Cast House Dedusting	18.11.24
21	Navelim Village, Bicholim.	M/s. Vedanta Limited (Sinter Plant)	Tail end ESP	20.11.24
22	Navelim Village, Bicholim.	M/s. Vedanta Limited (Sinter Plant)	Head end ESP	22.11.24
23	Navelim Village, Bicholim.	M/s. Vedanta Limited (Waste Heat Recovery Plant -2 & Coke Division Plant Esxpansion)	WHRB No.1 (65 T/hr)	25.11.24

24	Navelim Village, Bicholim.	M/s. Vedanta Limited (Coke Oven Plant Expansion & Waste Heat Recovery Plant -2)	WHRB No.2 (65 T/hr)	29.11.24
25	Bethora Industrial Estate	M/s.United Spirits Limited	Boiler 6TPH	02.12.24
26	Bethora Industrial Estate	M/s.United Spirits Limited	DG (500KVA)	05.12.24
27	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)		
	Blast Furnace-I (Before Bag House)	09.12.24		
28	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Blast Furnace-I (After Bag House)	09.12.24
29	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Blast Furnace-II (Before Bag House)	11.12.24
30	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Blast Furnace-II (After Bag House)	11.12.24
31	Amona, Bicholim-Goa	M/s. Vedanta Limited(Met Coke Division I)	Waste Heat Recovery Boiler (WHRB-No.1) of capacity 64 T/hr	17.12.24
32	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Laddle Dumping Chamber (Before Bag House)	20.12.24
33	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Laddle Dumping Chamber (After Bag House)	20.12.24
34	Amona, Bicholim-Goa	M/s. Vedanta Limited(Met Coke Division I) Waste Heat Recovery Plant I	Waste Heat Recovery Boiler (WHRB-No.2) of capacity 64 T/hr	23.12.24
35	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Hot Blast Stove 2 & 3 of Blast Furnace -I	03.01.25
36	Amona, Bicholim-Goa	M/s. Vedanta Limited (Pig Iron Plant)	Hot Blast Stove 1 & 3 of Blast Furnace -II	06.01.25
37	Amona, Bicholim-Goa	M/s. Vedanta Limited (Met Coke Division I) Waste Heat Recovery Power Plant -1)	Bag House stack of Coke Screening Plant-I	08.01.25
38	Arpora, Bardez-Goa	M/s. Sun Village Resorts Pvt Ltd.	DG set of capacity 320KVA	10.01.25
39	Sancoale, Mormugao-Goa	M/s. Paradeep Phosphates Limited (Fertilizer Division)	Plant Fumes Stack (NPK-A) N-CB901	15.01.25
40	Sancoale, Mormugao-Goa	M/s. Paradeep Phosphates Limited (Fertilizer Division)	NPK-A Plant De-dusting Cooler Stack (N-CB403)	17.01.25
41	Sancoale, Mormugao-Goa	M/s. Paradeep Phosphates Limited (Fertilizer Division)	NPK-A Plant Dryer Stack (N-CB301)	20.01.25
42	Sancoale, Mormugao-Goa	M/s. Paradeep Phosphates Limited (Fertilizer Division)	NPK-B Plant Stack of O5-5D101	22.01.25
43	Sancoale, Mormugao-Goa	M/s. Paradeep Phosphates Limited (Fertilizer Division)	U-IA 301 (Urea Plant Prilling Tower)	24.01.25

44	Sancoale, Mormugao-Goa	M/s. Paradeep Phosphates Limited (Fertilizer Division)	Urea Plant Dust Seperator (U-FO-304)	24.01.25
45	Varca- Goa	M/s. Advani Hotels & Resorts (India) Ltd. (Caravela Beach Resort, Goa)	Boiler of capacity 1000 kg/hr	30.01.25
46	Saligao – Bardez Goa	Goa State Pollution Control Board	DG (400 KVA)	04.02.25
47	Saligao – Bardez Goa	Goa State Pollution Control Board	Wet Scrubber	06.02.25
48	Varca- Goa	M/s. Advani Hotels & Resorts (India) Ltd. (Caravela Beach Resort, Goa)	Boiler(600Kg/hr)	10.02.25
49	Varca- Goa	M/s. Advani Hotels & Resorts (India) Ltd. (Caravela Beach Resort, Goa)	Hot Water Generator (4 lac kcal/hr)	12.02.25
50	River Mandovi ,Goa	M/s. Goa coastal resorts & recreation Pvt. Ltd(M.V Pride Of Goa)	DG.NO.4 (893KVA)	17.02.25
51	River Mandovi ,Goa	M/s. Goa coastal resorts & recreation Pvt. Ltd.(M.V Pride Of Goa)	DG.NO.3 (893KVA)	19.02.25
52	River Mandovi ,Goa	M/s. Goa coastal resorts & recreation Pvt. Ltd.(M.V Pride Of Goa)	DG.NO.2 (893KVA)	21.02.25
53	River Mandovi ,Goa	M/s. Goa coastal resorts & recreation Pvt.Ltd.(M.V Pride Of Goa)	DG.NO.1(893KVA)	24.02.25
54	River Mandovi ,Goa	M/s. Goa coastal resorts & recreation Pvt.Ltd.(M.V Pride Of Goa)	DG (250 KVA)	24.02.25
55	River Mandovi ,Goa	M/s. Goa coastal resorts & recreation Pvt.Ltd.(M.V Pride Of Goa)	DG (250 KVA)	26.02.25
56	River Mandovi ,Goa	M/s. Worldwide Resorts and Entertainment Pvt.Ltd. (M.V. Lucky Seven)	DG (1375 KVA)	28.02.25
57	River Mandovi ,Goa	M/s. Worldwide Resorts and Entertainment Pvt.Ltd. (M.V. Lucky Seven)	DG (1500 KVA)	03.03.25
58	River Mandovi ,Goa	M/s. Worldwide Resorts and Entertainment Pvt.Ltd. (M.V. Lucky Seven)	DG (1250 KVA)	05.03.25
59	River Mandovi ,Goa	M/s. Worldwide Resorts and Entertainment Pvt.Ltd. (M.V. Lucky Seven)	DG (1250 KVA)	07.03.25
60	River Mandovi ,Goa	M/s. Worldwide Resorts and Entertainment Pvt.Ltd. (M.V. Lucky Seven)	DG (312.5 KVA)	10.03.25
61	River Mandovi ,Goa, Shiroda - Goa	M/s. Mandovi River Pellets Private Limited	Furnace stack (1.8TPA)	12.03.25
62	River Mandovi ,Goa	M/S. Golden Peace Infrastructure Pvt Ltd (M.V.ARGOSY IV)	DG (375 KVA)	17.03.25
63	River Mandovi ,Goa	M/S. Golden Peace Infrastructure Pvt Ltd (M.V.ARGOSY IV)	DG (1137 KVA)	19.03.25
64	River Mandovi ,Goa	M/S. Golden Peace Infrastructure Pvt Ltd (M.V. Majestic Pride)	DG (1137 KVA)	21.03.25
65	River Mandovi ,Goa	M/S. Golden Peace Infrastructure Pvt Ltd (M.V. Majestic Pride)	DG (1137 KVA)	28.03.25

ANNEXURE XV A

WATER QUALITY DATA MONITORED ON IDOL IMMERSION FOR FESTIVALS (GANESH PUJA) PHYSICO-CHEMICAL PARAMETERS																	
Sr. No.	Name of the location	Source of sample (River, Lake, Pond, Sea, Canal, Artificial Ponds)	Events (Pre/During/Post)	Date	Time	Color	Do (mg/l)	pH	BOD (mg/l)	COD (mg/l)	Conductivity(µmho/cm)	Turbidity (mg/l)	Total Dissolved Solids (mg/l)	Chlorides (mg/l)	Total Suspended Solids (mg/l)	Total Hardness (mg/l)	Total Alkalinity (mg/l)	phenolphthalein alkalinity
1	River Mandovi at Ferry Point	River	Before Visarjan	23.08.24	1:10 PM	colourless	6.3	7.69	BDL	-	48070.0	21.0	28842.0	15245.3	28.0	6200.0	102.0	10.0
			After Visarjan (3rd day)	09.09.24	1:00 PM	Brown	3.7	6.91	4.1	12.0	1839.0	19.8	1177.0	799.8	15.0	160.0	72.0	BDL
			After Visarjan (5th day)	12.09.24	10:30 AM	clear	4.0	6.80	BDL	-	7421.0	13.08	4627.0	2124.34	11.0	800.0	80.0	BDL
			After Visarjan (7th day)	14.09.24	1:05 PM	colourless	5.8	7.39	BDL	-	32250.0	4.03	22525.0	2999.1	44.0	2200.0	50.0	BDL
			After Visarjan (9th day)	16.09.24	10:30 AM	clear	5.2	7.99	BDL	-	44380.0	9.17	29049.0	15120.3	79.0	6600.0	68.0	38.0
			After Visarjan 15th days	23.09.24	1:05 PM	colourless	6.6	7.92	BDL	-	36950.0	3.17	21431.0	14620.5	7.0	5800.0	76.0	6.0
2	River Mapusa at Taricode-Mapusa	River	Before Visarjan	23.08.24	11:50 AM	colourless	2.1	6.43	3.6	20.0	275.3	9.02	168.0	1374.5	16.0	1400.0	46.0	BDL
			After Visarjan (3rd day)	09.09.24	11:30 AM	Brown	2.5	6.53	4.8	16.0	183.0	18.01	117.0	23.5	25.0	32.0	40.0	BDL

			After Visarjan (5th day)	12.09.24	12:30 PM	light grey	2.5	6.46	4.4	20.0	184.9	6.81	106.0	21.0	16.0	48.0	40.0	BDL
			After Visarjan (7th day)	14.09.24	10:25 AM	colourless	2.1	6.62	3.2	20.0	255.3	5.31	175.0	19.4	39.0	42.0	44.0	BDL
			After Visarjan (9th day)	16.09.24	11:40 AM	light grey	4.9	6.87	BDL	8.0	209.1	8.74	117.0	31.99	10.0	56.0	60.0	BDL
			After Visarjan 15th days	23.09.24	11:13 AM	colourfree	2.5	6.59	4.4	20.0	1391.0	5.37	809.0	25.0	11.0	56.0	38.0	BDL
3	Carambolim Lake at Carambolim	Lake	Before Visarjan	23.08.24	11:13 AM	clear	7.9	6.89	BDL	8.0	78.47	2.26	43.0	13.49	5.0	54.0	58.0	BDL
			After Visarjan (3rd day)	09.09.24	11:00 AM	light brown	1.0	6.60	6.4	20.0	134.7	16.67	86.0	12.5	17.0	50.0	54.0	BDL
			After Visarjan (5th day)	12.09.24	11:00 AM	clear	5.1	7.01	BDL	6.0	154.8	5.25	101.0	10.0	47.0	44.0	48.0	BDL
			After Visarjan (7th day)	14.09.24	10:50 AM	colourless	4.9	7.32	BDL	12.0	157.5	4.39	88.0	10.49	6.0	60.0	60.0	BDL
			After Visarjan (9th day)	16.09.24	11:00 AM	colourless	6.0	7.18	BDL	10.0	127.7	3.02	83.0	11.50	11.0	52.0	52.0	BDL
			After Visarjan 15th days	23.09.24	10:45 AM	clear	5.3	7.02	BDL	10.0	1391.00	4.70	821.0	11.5	10.0	58.0	50.0	BDL
4	Charkhamba (Mansher) Panaji – St. Cruz road	River	Before Visarjan	23.08.24	12:35 PM	colourless	6.6	7.34	BDL	-	25570.0	5.32	15683.0	10996.6	9.0	3000.0	62.0	BDL
			After Visarjan (3rd day)	09.09.24	12:40 PM	brown	6.1	7.36	BDL	10.0	5474.0	12.03	3503.0	1199.6	18.0	348.0	52.0	BDL
			After Visarjan (5th day)	12.09.24	11:15 AM	colourless	6.4	7.24	BDL	18.0	4376	10.17	2719.0	1374.57	8.0	600.0	46.0	BDL

			After Visarjan (7th day)	14.09.24	12:45 PM	colourless	5.2	7.19	BDL	-	16160.0	3.99	9049.0	3099.0	5.0	1100.0	50.0	BDL
			After Visarjan (9th day)	16.09.24	11:00 AM	clear	5.6	7.43	BDL	-	8360.0	4.81	5471.0	4498.6	37.0	1800.0	64.0	BDL
			After Visarjan 15th days	23.09.24	12:47 PM	colourfree	5.5	7.54	BDL	-	23920.0	4.98	14160.0	9497.0	10.0	4500.0	62.0	BDL
5	Near the bridge , Chereaband , Dandora, Cuncolim	River	Before Visarjan	23.08.24	11:15 AM	light brown	7.0	6.97	BDL	8.0	116.3	4.85	71.0	13.5	6.0	128.0	26.0	BDL
			After Visarjan (3rd day)	09.09.24	10:30 AM	clear	6.9	6.77	BDL	8.0	97.72	6.38	62.0	9.0	5.0	32.0	30.0	BDL
			After Visarjan (5th day)	12.09.24	9:40 AM	clear	6.9	6.92	BDL	8.0	1603.0	5.60	1021.0	7.99	9.0	26.0	42.0	BDL
			After Visarjan (7th day)	14.09.24	10:30 AM	colourless	6.9	6.92	BDL	4.0	1603.0	5.60	1090.0	6.50	8.0	32.0	28.0	BDL
			After Visarjan (9th day)	16.09.24	9:30 AM	colourless	7.0	6.83	BDL	4.0	1605.0	8.28	1027.0	16.0	15.0	36.0	28.0	BDL
			After Visarjan 15th days	23.09.24	10:10 AM	light grey	6.7	6.5	BDL	8.0	1439.00	44.0	863.0	6.498	32.0	28.0	24.0	BDL
6	Near Railway bridge, Khandiwada , Curchorem	River	Before Visarjan	23.08.24	11:15 AM	colourless	4.5	7.95	BDL	6.0	137.2	2.87	76.0	16.49	3.0	28.0	34.0	BDL
			After Visarjan (3rd day)	09.09.24	10:10 AM	colourless	4.8	6.84	BDL	8.0	64.01	5.93	42.0	8.0	7.0	32.0	22.0	BDL
			After Visarjan (5th day)	12.09.24	12:01 PM	clear	4.8	6.77	BDL	6.0	93.54	4.13	61.0	21.99	7.0	34.0	38.0	BDL
			After Visarjan (7th day)	14.09.24	10:45 AM	clear	5.0	7.89	BDL	6.0	101.0	5.0	65.0	12.99	13.0	26.0	42.0	BDL

			After Visarjan (9th day)	16.09.24	12:30 PM	clear	6.0	7.04	BDL	8.0	100.0	8.82	64.0	15.0	84.0	26.0	28.0	BDL
			After Visarjan 15th days	23.09.24	11:32 AM	clear	5.3	6.77	BDL	12.0	1343.0	7.85	828.0	18.0	8.0	38.0	36.0	BDL
7	Paraste, Harmalkar wada, Pernem	River	Before Visarjan	23.08.24	11:10 AM	colourless	7.3	7.19	BDL	8.0	3640.0	7.76	2147.0	1064.7	15.0	364.0	40.0	BDL
			After Visarjan (3rd day)	09.09.24	10:45 AM	brown	7.0	6.82	BDL	10.0	193.0	9.1	124.0	29.0	12.0	28.0	10.0	BDL
			After Visarjan (5th day)	12.09.24	1:15 PM	clear	6.9	6.61	BDL	10.0	170.8	8.40	100.0	27.5	20.0	28.0	30.0	BDL
			After Visarjan (7th day)	14.09.24	11:05 AM	colourless	6.3	6.86	BDL	8.0	273.7	5.31	177.0	23.5	42.0	36.0	32.0	BDL
			After Visarjan (9th day)	16.09.24	12:45 PM	clear	6.3	7.04	BDL	6.0	685.6	6.10	384.0	170.48	10.0	90.0	46.0	BDL
			After Visarjan 15th days	23.09.24	11:40 AM	colourfree	7.2	8.15	BDL	10.0	2162.0	8.38	1229.0	249.92	17.0	100.0	38.0	BDL
8	Daudkiwada River, Daudkiwada-velus, ward no. 1, Valpoi	River	Before Visarjan	23.08.24	12:03 PM	clear	7.7	7.34	BDL	6.0	174.5	2.03	97.0	7.49	4.0	26.0	34.0	BDL
			After Visarjan (3rd day)	09.09.24	12:15 PM	clear	7.9	6.91	BDL	8.0	70.1	5.36	49.0	5.1	9.0	20.0	26.0	BDL
			After Visarjan (5th day)	12.09.24	12:15 PM	clear	7.6	6.92	BDL	10.0	109.2	2.39	70.0	6.5	16.0	22.0	28	BDL
			After Visarjan (7th day)	14.09.24	11:45 AM	colourless	7.2	7.11	BDL	6.0	82.77	4.06	46.0	4.49	7.0	42.0	50.0	BDL
			After Visarjan (9th day)	16.09.24	12:15 PM	colourless	7.4	7.02	BDL	8.0	61.66	9.68	38.0	6.0	12.0	32.0	34.0	BDL

			After Visarjan 15th days	23.09.24	11:50 AM	clear	6.5	7.11	BDL	6.0	1367.0	2.59	820.0	9.0	7.0	36.0	28.0	BDL
9	Near bridge, Orcotto, ward no. 4, Sanguem	River	Before Visarjan	23.08.24	12:00 PM	colourless	6.9	7.12	BDL	6.0	146.0	7.68	89.0	45.49	10.0	64.0	24.0	BDL
			After Visarjan (3rd day)	09.09.24	10:40 AM	colourless	7.2	7.14	BDL	8.0	46.18	3.67	26.0	5.50	4.0	16.0	30.0	BDL
			After Visarjan (5th day)	12.09.24	10:41 AM	colourless	7.0	6.69	BDL	8.0	78.76	3.67	47.0	10.0	5.0	20.0	22.0	BDL
			After Visarjan (7th day)	14.09.24	10:15 AM	clear	5.4	8.05	BDL	4.0	51.57	3.69	31.0	5.50	6.0	28.0	12.0	BDL
			After Visarjan (9th day)	16.09.24	11:25 AM	clear	6.9	7.21	BDL	6.0	44.5	8.47	29.0	1.5	82.0	16.0	24.0	BDL
			After Visarjan 15th days	23.09.24	10:55 AM	clear	6.7	7.02	BDL	10.0	1314.0	6.58	805.0	6.0	7.0	38.0	24.0	BDL
10	Pimpolcotto, ward no. 2, Sanguem	River	Before Visarjan	23.08.24	10:30 AM	colourless	7.5	7.30	BDL	4.0	52.99	7.88	30.0	5.99	6.0	20.0	22.0	BDL
			After Visarjan (3rd day)	09.09.24	12:00 PM	light brown	7.2	6.96	BDL	10.0	48.56	9.41	26.0	6.50	10.0	22.0	24.0	BDL
			After Visarjan (5th day)	12.09.24	10:17 AM	colourless	7.6	6.39	BDL	6.0	67.49	8.02	40.0	6.5	10.0	22.0	26.0	BDL
			After Visarjan (7th day)	14.09.24	9:52 AM	clear	7.1	6.89	BDL	4.0	51.45	2.39	29.0	6.0	5.0	52.0	26.0	BDL
			After Visarjan (9th day)	16.09.24	10:25 AM	clear	7.1	6.98	BDL	4.0	49.14	4.81	31.0	9.50	8.0	108.0	26.0	BDL
			After Visarjan 15th days	23.09.24	10:08 AM	turbid brown	7.1	6.79	BDL	10.0	1321.0	155.0	809.0	4.5	48.0	24.0	22.0	BDL

11	Panefond River, Kindlebag, ward no. 5, Canacona	River	Before Visarjan	23.08.24	12:48 PM	colourless	7.4	7.02	BDL	-	17550.0	2.35	11675.0	5248.4	40.0	2600.0	46.0	BDL
			After Visarjan (3rd day)	09.09.24	12:10 PM	clear	7.3	6.96	BDL	10.0	132.0	44.7	84.0	20.0	43.0	28.0	18.0	BDL
			After Visarjan (5th day)	12.09.24	10:40 AM	colourless	7.1	7.15	BDL	8.0	1580.0	9.67	932.0	18.5	16.0	20.0	28.0	BDL
			After Visarjan (7th day)	14.09.24	12:30 PM	colourless	6.4	6.84	BDL	6.0	1494.0	2.97	1000.0	16.0	5.0	26.0	30.0	BDL
			After Visarjan (9th day)	16.09.24	11:00 AM	colourless	5.4	6.80	BDL	4.0	1750.0	3.03	1120.0	7.50	5.0	48.0	26.0	BDL
			After Visarjan 15th days	23.09.24	12:06 PM	light grey	6.6	6.19	BDL	6.0	1559.0	46.2	935.0	28.49	38.0	20.0	24.0	BDL
12	Baina Beach, Vasco	Sea	Before Visarjan	23.08.24	2:05 PM	colourless	6.6	8.0	BDL	-	41660.0	20.9	27639.0	16994.7	78.0	8500.0	112.0	12.0
			After Visarjan (3rd day)	09.09.24	2:30 PM	clear	6.8	7.80	BDL	-	76840.0	5.39	49177.0	17869.46	6.0	7800.0	104.0	16.0
			After Visarjan (5th day)	12.09.24	12:40 PM	clear	6.6	7.79	BDL	-	39300.0	21.6	23580.0	16120.0	23.0	6200.0	118.0	14.0
			After Visarjan (7th day)	14.09.24	2:30 PM	colourless	6.4	8.15	BDL	-	35820.0	6.53	23999.0	17494.5	11.0	7200.0	90.0	24.0
			After Visarjan (9th day)	16.09.24	1:30 PM	colourless	6.2	7.95	BDL	-	41280.0	8.58	26419.0	17744.5	16.0	6400.0	92.0	20.0
			After Visarjan 15th days	23.09.24	1:25 PM	clear	6.2	7.92	BDL		45390.0	9.48	27234.0	16619.85	15.0	7800.0	80.0	14.0

ANNEXURE- XV B

WATER QUALITY DATA MONITORED ON IDOL IMMERSION FOR FESTIVALS (GANESH PUJA) HEAVY METAL PARAMETERS

Sr. No.	Name of the location	Source of sample (River, Lake, Pond, Sea, Canal, Artificial Ponds)	Events (Pre/During/Post)	Date	Time	Cadmium (mg/l)	Cobalt (mg/l)	Copper (mg/l)	Chromium Total (mg/l	Manganese (mg/l)	Lead (mg/l)	Zinc (mg/l)	Mercury (mg/l)	Antimony (mg/l)	Barium (mg/l)	Strontium (mg/l)
1	River Mandovi at Ferry Point	River	Before Visarjan	23.08.24	1:10 PM	BDL	BDL	BDL	0.004	0.05	0.003	0.12	BDL	0.001	0.012	5.73
			After Visarjan (3rd day)	09.09.24	1:00 PM	BDL	BDL	BDL	BDL	0.045	BDL	0.004	0.001	BDL	0.009	0.155
			After Visarjan (5th day)	12.09.24	10:30 AM	BDL	BDL	BDL	BDL	0.80	0.06	0.24	BDL	BDL	0.04	0.59
			After Visarjan (7th day)	14.09.24	1:05 PM	BDL	BDL	BDL	BDL	0.83	0.05	0.149	BDL	BDL	0.012	1.50
			After Visarjan (9th day)	16.09.24	10:30 AM	BDL	0.002	BDL	BDL	0.097	BDL	0.208	BDL	BDL	0.016	5.528
			After Visarjan 15th days	23.09.24	1:05 PM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	River Mapusa at Taricode-Mapusa	River	Before Visarjan	23.08.24	11:50 AM	BDL	BDL	BDL	0.002	0.018	0.007	0.18	BDL	BDL	0.044	0.05
			After Visarjan (3rd day)	09.09.24	11:30 AM	BDL	BDL	0.009	0.001	0.044	0.002	0.017	0.001	BDL	0.024	0.041
			After Visarjan (5th day)	12.09.24	12:30 PM	BDL	BDL	0.001	BDL	0.041	0.06	0.01	BDL	BDL	0.02	0.06
			After Visarjan (7th day)	14.09.24	10:25 AM	BDL	BDL	BDL	BDL	0.054	0.05	0.003	BDL	BDL	0.03	0.05

			After Visarjan (9th day)	**16.09.24**	11:40 AM	0.008	BDL	BDL	BDL	0.144	BDL	BDL	BDL	BDL	0.029	0.072
			After Visarjan 15th days	**23.09.24**	11:13 AM	BDL	BDL	BDL	BDL	0.017	BDL	0.008	BDL	BDL	BDL	BDL
3	**Caramboli m Lake at Caramboli m**	**Lake**	**Before Visarjan**	**23.08.24**	11:13 AM	BDL	BDL	0.003	0.001	0.014	BDL	0.005	BDL	BDL	0.007	0.041
			After Visarjan (3rd day)	**09.09.24**	11:00 AM	0.010	BDL	0.012	0.006	0.079	0.010	0.037	BDL	BDL	0.028	0.048
			After Visarjan (5th day)	**12.09.24**	11:00 AM	BDL	BDL	BDL	BDL	0.02	0.06	0.003	BDL	BDL	0.01	0.06
			After Visarjan (7th day)	**14.09.24**	10:50 AM	BDL	BDL	BDL	BDL	0.013	0.04	0.009	BDL	BDL	0.03	0.03
			After Visarjan (9th day)	**16.09.24**	11:00 AM	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.012	0.070
			After Visarjan 15th days	**23.09.24**	10:45 AM	BDL	BDL	BDL	BDL	0.003	BDL	0.003	BDL	BDL	BDL	BDL
4	**Charkham ba (Mansher) Panaji – St. Cruz road**	**River**	**Before Visarjan**	**23.08.24**	12:35 PM	BDL	BDL	BDL	0.003	1.48	0.004	0.11	BDL	BDL	0.02	2.82
			After Visarjan (3rd day)	**09.09.24**	12:40 PM	BDL	BDL	BDL	BDL	0.111	0.003	0.012	BDL	BDL	0.004	0.039
			After Visarjan (5th day)	**12.09.24**	11:15 AM	BDL	BDL	0.001	BDL	0.014	0.03	0.003	BDL	BDL	0.005	0.30
			After Visarjan (7th day)	**14.09.24**	12:45 PM	BDL	BDL	BDL	BDL	0.021	0.08	0.130	BDL	BDL	0.011	0.797
			After Visarjan (9th day)	**16.09.24**	11:00 AM	BDL	BDL	BDL	BDL	0.246	BDL	0.121	BDL	BDL	0.045	0.975
			After Visarjan 15th days	**23.09.24**	12:47 PM	BDL	BDL	BDL	BDL	0.009	BDL	0.002	BDL	BDL	BDL	BDL
5	**Near the bridge , Chereaban d , Dandora, Cuncolim**	**River**	**Before Visarjan**	**23.08.24**	11:15 AM	BDL	BDL	0.003	0.002	0.009	0.003	0.004	0.001	BDL	0.012	0.015
			After Visarjan (3rd day)	**09.09.24**	10:30 AM	BDL	BDL	BDL	BDL	0.036	BDL	0.001	BDL	BDL	0.008	0.019
			After Visarjan (5th day)	**12.09.24**	9:40 AM	0.001	BDL	BDL	BDL	0.017	0.04	0.01	BDL	BDL	0.01	0.04

			After Visarjan (7th day)	**14.09.24**	10:30 AM	BDL	BDL	BDL	BDL	0.039	BDL	0.253	BDL	BDL	0.025	0.021
			After Visarjan (9th day)	**16.09.24**	9:30 AM	BDL	0.001	BDL	BDL	0.041	BDL	0.178	BDL	BDL	BDL	0.011
			After Visarjan 15th days	**23.09.24**	10:10 AM	BDL	BDL	0.006	BDL	0.007	BDL	0.026	BDL	BDL	BDL	BDL
6	**Near Railway bridge, Khandiwada , Curchorem**	**River**	**Before Visarjan**	**23.08.24**	11:15 AM	BDL	BDL	0.003	0.002	0.015	BDL	0.002	0.001	BDL	0.008	0.029
			After Visarjan (3rd day)	**09.09.24**	10:10 AM	BDL	BDL	BDL	BDL	0.246	BDL	0.013	BDL	BDL	0.005	0.002
			After Visarjan (5th day)	**12.09.24**	12:01 PM	BDL	BDL	BDL	BDL	0.04	0.03	0.001	BDL	BDL	0.01	0.03
			After Visarjan (7th day)	**14.09.24**	10:45 AM	BDL	BDL	BDL	BDL	0.133	BDL	0.005	BDL	BDL	0.012	0.032
			After Visarjan (9th day)	**16.09.24**	12:30 PM	BDL	BDL	BDL	BDL	0.669	BDL	0.001	0.001	0.001	0.012	0.033
			After Visarjan 15th days	**23.09.24**	11:32 AM	BDL	BDL	0.008	BDL	0.041	BDL	0.037	BDL	BDL	BDL	BDL
7	**Paraste, Harmalkarwada, Pernem**	**River**	**Before Visarjan**	**23.08.24**	11:10 AM	BDL	BDL	BDL	0.002	0.017	0.002	0.11	BDL	BDL	0.006	0.32
			After Visarjan (3rd day)	**09.09.24**	10:45 AM	BDL	BDL	BDL	BDL	0.024	BDL	0.002	BDL	BDL	0.010	0.024
			After Visarjan (5th day)	**12.09.24**	1:15 PM	BDL	BDL	BDL	BDL	0.05	0.03	0.007	BDL	BDL	0.02	0.03
			After Visarjan (7th day)	**14.09.24**	11:05 AM	BDL	BDL	BDL	BDL	0.09	0.032	0.003	BDL	BDL	0.01	0.03
			After Visarjan (9th day)	**16.09.24**	12:45 PM	BDL	BDL	BDL	BDL	0.040	BDL	BDL	BDL	BDL	0.010	0.089
			After Visarjan 15th days	**23.09.24**	11:40 AM	BDL	BDL	BDL	BDL	0.014	BDL	0.004	BDL	BDL	BDL	BDL
8	**Daudkiwada River, Daudkiwada-velus,**	**River**	**Before Visarjan**	**23.08.24**	12:03 PM	0.001	BDL	0.001	BDL	0.004	BDL	0.003	BDL	BDL	0.007	0.014
			After Visarjan (3rd day)	**09.09.24**	12:15 PM	BDL	BDL	BDL	BDL	0.011	BDL	0.002	0.001	BDL	0.010	0.017

	ward no. 1, Valpoi		**After Visarjan (5th day)**	**12.09.24**	12:15 PM	BDL	BDL	BDL	BDL	0.004	0.02	0.002	BDL	BDL	0.01	0.02
			After Visarjan (7th day)	**14.09.24**	11:45 AM	BDL	BDL	BDL	BDL	0.02	0.03	0.016	BDL	BDL	0.02	0.02
			After Visarjan (9th day)	**16.09.24**	12:15 PM	BDL	BDL	BDL	BDL	0.003	BDL	BDL	BDL	BDL	0.006	0.04
			After Visarjan 15th days	**23.09.24**	11:50 AM	BDL	BDL	BDL	BDL	0.001	BDL	0.001	BDL	BDL	BDL	BDL
9	**Near bridge, Orcotto, ward no. 4, Sanguem**	**River**	**Before Visarjan**	**23.08.24**	12:00 PM	BDL	BDL	0.004	0.002	0.055	BDL	0.003	0.001	BDL	0.01	0.025
			After Visarjan (3rd day)	**09.09.24**	10:40 AM	BDL	BDL	BDL	BDL	0.197	BDL	0.009	BDL	BDL	0.010	0.015
			After Visarjan (5th day)	**12.09.24**	10:41 AM	BDL	BDL	BDL	BDL	0.054	0.03	0.007	BDL	BDL	0.01	0.02
			After Visarjan (7th day)	**14.09.24**	10:15 AM	BDL	BDL	BDL	BDL	0.025	BDL	0.006	BDL	BDL	0.010	0.026
			After Visarjan (9th day)	**16.09.24**	11:25 AM	BDL	BDL	BDL	BDL	0.025	BDL	0.011	BDL	BDL	0.005	0.098
			After Visarjan 15th days	**23.09.24**	10:55 AM	BDL	BDL	0.006	BDL	0.009	BDL	0.024	BDL	BDL	BDL	BDL
10	**Pimpolcotto , ward no. 2, Sanguem**	**River**	**Before Visarjan**	**23.08.24**	10:30 AM	BDL	BDL	0.003	0.002	0.015	BDL	0.001	0.001	BDL	0.004	0.011
			After Visarjan (3rd day)	**09.09.24**	12:00 PM	BDL	BDL	BDL	BDL	0.293	BDL	0.007	0.001	BDL	0.004	0.008
			After Visarjan (5th day)	**12.09.24**	10:17 AM	BDL	BDL	BDL	BDL	0.097	0.02	0.004	BDL	BDL	0.01	0.014
			After Visarjan (7th day)	**14.09.24**	9:52 AM	BDL	BDL	BDL	BDL	0.106	0.001	0.011	BDL	BDL	0.005	0.011
			After Visarjan (9th day)	**16.09.24**	10:25 AM	BDL	BDL	BDL	BDL	0.086	BDL	BDL	BDL	BDL	0.007	0.015
			After Visarjan 15th days	**23.09.24**	10:08 AM	BDL	BDL	0.003	BDL	0.014	BDL	0.007	BDL	BDL	BDL	BDL
11	**Panefond River,**	**River**	**Before Visarjan**	**23.08.24**	12:48 PM	BDL	BDL	BDL	0.001	0.048	BDL	0.003	BDL	BDL	0.007	1.20

	Kindlebag, ward no. 5, Canacona		**After Visarjan (3rd day)**	**09.09.24**	12:10 PM	0.001	BDL	0.015	0.002	0.119	0.037	0.003	BDL	BDL	0.030	0.021
			After Visarjan (5th day)	**12.09.24**	10:40 AM	BDL	BDL	BDL	BDL	0.014	0.03	0.004	0.001	BDL	0.174	0.02
			After Visarjan (7th day)	**14.09.24**	12:30 PM	BDL	BDL	BDL	BDL	0.039	BDL	0.255	BDL	BDL	0.031	0.027
			After Visarjan (9th day)	**16.09.24**	11:00 AM	BDL	BDL	BDL	BDL	0.022	BDL	0.079	BDL	BDL	0.007	0.041
			After Visarjan 15th days	**23.09.24**	12:06 PM	BDL	BDL	0.005	BDL	0.011	BDL	0.019	BDL	BDL	BDL	BDL
12	**Baina Beach, Vasco**	**Sea**	**Before Visarjan**	**23.08.24**	2:05 PM	BDL	BDL	BDL	0.008	0.005	0.001	0.002	BDL	BDL	0.004	5.29
			After Visarjan (3rd day)	**09.09.24**	2:30 PM	0.001	BDL	0.002	BDL	0.065	BDL	0.154	0.001	0.003	0.056	0.607
			After Visarjan (5th day)	**12.09.24**	12:40 PM	BDL	BDL	BDL	BDL	0.45	0.08	0.001	BDL	BDL	0.012	2.6
			After Visarjan (7th day)	**14.09.24**	2:30 PM	BDL	0.001	BDL	BDL	0.139	BDL	0.222	BDL	BDL	0.014	4.929
			After Visarjan (9th day)	**16.09.24**	1:30 PM	BDL	BDL	BDL	BDL	0.006	BDL	0.034	BDL	BDL	BDL	BDL
			After Visarjan 15th days	**23.09.24**	1:25 PM	BDL	BDL	0.005	BDL	0.025	BDL	0.122	BDL	BDL	BDL	BDL

ANNEXURE- XV C

SOIL QUALITY DATA MONITORED ON IDOL IMMERSION FOR FESTIVALS (GANESH PUJA)

						HEAVY METALS PARAMETERS										
Sr.No.	Name of the location	Source of sample(River,Lake,Pond, Sea, Canal, Artificial Ponds	Events (Pre/During/Post)	Date	Time	Cadmium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Chromium Total (mg/kg)	Manganese (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Mercury (mg/kg)	Antimony (mg/kg)	Barium (mg/kg)	Strontium(mg/kg)
1	River Mandovi at Ferry Point	River	Before Visarjan	23.08.24	-	not collected as water level was high										
			After Visarjan (3rd day)	09.09.24	-	not collected as water level was high										
			After Visarjan (5th day)	12.09.24	-	not collected as water level was high										
			After Visarjan (7th day)	14.09.24	-	not collected as water level was high										
			After Visarjan (9th day)	16.09.24	-	not collected as water level was high										
			After Visarjan 15th days	23.09.24	-	not collected as water level was high										
2	River Mapusa at Taricode-Mapusa	River	Before Visarjan	23.08.24	-	not collected as water level was high										
			After Visarjan (3rd day)	09.09.24	-	not collected as water level was high										
			After Visarjan (5th day)	12.09.24	-	not collected as water level was high										

			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high									
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high									
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high									
3	**Carambolim Lake at Carambolim**	**Lake**	**Before Visarjan**	**23.08.24**	-	not collected as water level was high									
			After Visarjan (3rd day)	**09.09.24**	-	not collected as water level was high									
			After Visarjan (5th day)	**12.09.24**	-	not collected as water level was high									
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high									
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high									
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high									
4	**Carkhamba (Mansher) Panaji – St. Cruz road**	**River**	**Before Visarjan**	**23.08.24**	-	not collected as water level was high									
			After Visarjan (3rd day)	**09.09.24**	-	not collected as water level was high									
			After Visarjan (5th day)	**12.09.24**	-	not collected as water level was high									
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high									
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high									
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high									
5	**Near the bridge , Chereaband , Dandora,**	**River**	**Before Visarjan**	**23.08.24**	11:25 AM	0.70	32.0	58.5	312.0	1062.5	13.0	108.5	0.35	1.15	46.0	4.25
			After Visarjan (3rd day)	**09.09.24**	10:30 AM	0.75	34.70	63.6	368.8	406.15	12.75	112.75	1.40	0.95	35.05	4.30

	Cuncolim		**After Visarjan (5th day)**	**12.09.24**	9:40 AM	0.01	0.06	0.21	1.07	1.85	0.24	0.54	BDL	BDL	0.26	0.13
			After Visarjan (7th day)	**14.09.24**	10:30 AM	0.01	0.36	0.63	1.94	3.62	0.10	0.91	BDL	BDL	0.4	0.04
			After Visarjan (9th day)	**16.09.24**	9:30 AM	0.01	0.26	0.52	2.16	3.73	0.09	0.75	BDL	BDL	0.29	0.03
			After Visarjan 15th days	**23.09.24**	10:10 AM	0.02	0.27	0.51	1.81	3.59	0.63	0.82	BDL	BDL	0.450	0.06
6	**Near Railway bridge, Khandiwada , Curchorem**	**River**	**Before Visarjan**	**23.08.24**	11:30 AM	0.20	5.0	9.0	46.5	1546.5	6.5	18.5	0.25	0.30	65.5	5.5
			After Visarjan (3rd day)	**09.09.24**	10:15 AM	0.44	7.10	15.45	70.70	1285.0	8.55	34.50	1.80	0.29	102.30	10.80
			After Visarjan (5th day)	**12.09.24**	11:56 AM	BDL	0.09	0.18	0.73	1.13	0.55	0.46	BDL	BDL	0.25	0.1
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high										
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high										
			After Visarjan 15th days	**23.09.24**	11:38 AM	BDL	0.03	0.12	0.42	5.73	BDL	0.36	BDL	BDL	0.84	0.12
7	**Paraste, Harmalkar wada, Pernem**	**River**	**Before Visarjan**	**23.08.24**	11:30 AM	1.15	36.5	149.5	266.0	1581.0	18.0	115.5	2.05	0.50	50.5	22.5
			After Visarjan (3rd day)	**09.09.24**	-	not collected as water level was high										
			After Visarjan (5th day)	**12.09.24**	-	not collected as water level was high										
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high										
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high										
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high										
8	**Daudkiwada River,**	**River**	**Before Visarjan**	**23.08.24**	-	not collected as water level was high										

	Daudkiwada-velus, ward no. 1, Valpoi		**After Visarjan (3rd day)**	**09.09.24**	-	not collected as water level was high										
			After Visarjan (5th day)	**12.09.24**	-	not collected as water level was high										
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high										
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high										
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high										
9	**Near bridge, Orcotto, ward no. 4, Sanguem**	**River**	**Before Visarjan**	**23.08.24**	12:15 PM	0.40	7.5	18.0	66.5	925.5	13.5	28.5	0.60	0.5	73.5	3.7
			After Visarjan (3rd day)	**09.09.24**	-	not collected as water level was high										
			After Visarjan (5th day)	**12.09.24**	-	not collected as water level was high										
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high										
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high										
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high										
10	**Pimpolcotto, ward no. 2, Sanguem**	**River**	**Before Visarjan**	**23.08.24**	10:45 AM	0.30	12.0	22.5	159.0	2195.0	6.0	35.0	0.30	0.65	34.5	2.1
			After Visarjan (3rd day)	**09.09.24**	11:45 AM	0.60	24.85	50.70	180.0	2122.0	11.05	72.50	3.45	1.10	53.30	5.65
			After Visarjan (5th day)	**12.09.24**	1.:20 AM	0.01	0.08	0.23	0.94	1.15	0.12	0.38	BDL	BDL	0.34	0.21
			After Visarjan (7th day)	**14.09.24**	9:54 AM	0.01	0.17	0.32	1.22	7.50	0.07	0.55	BDL	BDL	0.45	0.09
			After Visarjan (9th day)	**16.09.24**	10:20 AM	BDL	0.20	0.32	1.42	10.0	0.05	0.51	BDL	BDL	0.47	0.07
			After Visarjan 15th days	**23.09.24**	10:11 AM	BDL	0.18	0.29	1.25	9.02	0.05	0.62	BDL	BDL	0.59	0.10

11	**Panefond River, Kindlebag, ward no. 5, Canacona**	**River**	**Before Visarjan**	**23.08.24**	-	not collected as water level was high									
			After Visarjan (3rd day)	**09.09.24**	-	not collected as water level was high									
			After Visarjan (5th day)	**12.09.24**	-	not collected as water level was high									
			After Visarjan (7th day)	**14.09.24**	-	not collected as water level was high									
			After Visarjan (9th day)	**16.09.24**	-	not collected as water level was high									
			After Visarjan 15th days	**23.09.24**	-	not collected as water level was high									
12	**Baina Beach, Vasco**	**Sea**	**Before Visarjan**	**23.08.24**	2:15 PM	0.05	4.25	12.5	64.5	295.5	5.0	24.5	1.4	0.85	13.5	336.0
			After Visarjan (3rd day)	**09.09.24**	2:30 PM	0.25	8.75	21.35	148.40	597.9	5.25	45.75	1.80	0.29	12.25	255.95
			After Visarjan (5th day)	**12.09.24**	12:40 PM	BDL	0.03	0.25	0.64	0.60	0.11	0.33	BDL	BDL	0.35	0.43
			After Visarjan (7th day)	**14.09.24**	2:30 PM	0.01	0.02	0.01	0.11	1.60	BDL	0.26	BDL	BDL	0.22	1.88
			After Visarjan (9th day)	**16.09.24**	1:30 PM	0.01	0.04	0.06	0.61	1.29	0.08	0.35	BDL	BDL	0.55	0.29
			After Visarjan 15th days	**23.09.24**	1:25 PM	BDL	0.03	0.04	0.61	1.03	BDL	0.31	BDL	BDL	0.60	0.33

ANNEXURE-XVI

List of units presented before the Technical Advisory Committee from 1st April 2024 till 31st March 2025.				
Sr. No.	**Name of the unit**	**Application No.**	**Application Purpose / Activity**	**Consent Validity**
1.	M/s Mormugao Port Authority (MPA): Berth no. 08	-------	Expansion	31/10/2025
2.	M/s Taj Holiday Village Resorts & Spa	2072813	CCA- Renewal	31/03/2029
3.	M/s. Vedanta Limited : Amona Beneficiation Plant-1A and Dry screening Plant-1B & 1C	----------	CCA-Renewal	19/05/2029
4.	M/s Walbrue Breweries Private Limited	1987950	CTE	Upto 05-years
5.	M/s Mormugao Port Authority (MPA): Mooring Dolphin 1,2 & 3	2152210	Amendment	21/04/2027
6.	M/s Vedanta Limited: Value Added Business (VAB)	------	CTO-Expan.	----------
7.	M/s Puniska Injectables Pvt. Ltd.,	1944352	CCA-Renewal	In-process
8.	M/s. National Institute of Technology (NIT), Goa	2049744	CCA- New	23/02/2028.
9.	M/s GMR Goa International Airport Limited	2028509	CTE-Expan.	01/08/2027
10.	M/s Petrichor Spirits Private Limited	2101091	CTE	Rejected
11.	M/s Fomento Resorts & Hotels Ltd.,:Cidade De Goa	2026471	Renewal	26/03/2029
12.	M/s Averina International Resorts Pvt. Ltd.	1998289	Renewal	15/12/2028
13.	M/s Vedanta Limited		Renewal	
14.	M/s Delta Corp. Ltd.,	2503387	CTE	In Process
15.	M/s Vibhav Real Estate &Madanant Constructions Pvt. Ltd.,	---------	CTE	----------
16.	M/s. Prabhu's Violetta-Phase-1	2021942	CTO- Renewal	In Process
17.	M/s Gera Developments Pvt. Ltd., & Gera Realty Estates (*Gera Kadamba River of Joy- Zone C*)	----------	CCA	15-03-2025
18.	M/s Nestle India Ltd.,	1990463	CTE-Expan.	Upto 05-years
19.	M/s Berger Becker Coating Pvt. Ltd.,	----------	CCA- 50% capacity	----------

20.	M/s. Sesa Mining Corporation Ltd.,	----------	Amendment	31/12/2028
21.	M/s Vedanta Limited: Block I - Bicholim Mineral Block	----------	Amendment	04/03/2029
22	M/s. International & Domestic Cruise Terminal	2005634	CTE	Upto 05-years
23	M/s. Ashoka Infraways Limited	2397163	CTE – Expan.	Rejected
24	M/s. Ashoka Infraways Limited	2215639	CTO – Expan.	In Process
25	M/s United Spirits Limited	2501787	CTE- Expan	04/01/2030
26	M/s. Grand Organics Pvt. Ltd.,	2116902	CCA- Expan.	08/09/2028
27	M/s Raj Enclave by Raj Housing Development Pvt. Ltd.,	2382690	CCA	19 /05/2025
28	M/s Walbrue Breweries Private Limited	1987950	CTE	Upto 05-years
29	M/s. Ceres Hotels Pvt. Ltd.,	1940923	CCA-Renewal	13/08/2025
30	M/s. SIDCGL: 15 - MLD capacity Sewage Treatment Plant at Queula.	2204202	CCA-Renewal	02/09/2025
31	M/s. Goa Sponge & Power Ltd.,	2189389	CCA-Renewal	28 /04/2025
32	M/s. DLF Limited.	2148599	CTE	Upto 05-years
33	M/s United Spirits Limited.	2501787	CTE- Expan.	04/01/2030
34	M/s. Goa State Co-operative Milk Producers Union Ltd.,	2042218	CCA-Renewal	29/08/2025
35	M/s Delta Pleasure Cruise Co. Pvt. Ltd.,	1797151	CTE	Upto 05-years
36	M/s Zuari IAV Pvt. Ltd.,	-------	*Compliant-related*	----------
37	M/s. Pig Iron Plant, Amona	2197149	CCA-Renewal	01/10/2028
38	M/s. Vedanta Limited: Block-I - Bicholim Mineral Block	2289062	CCA-Renewal	04/03/2029
39	M/s Delta Pleasure Cruise Co. Pvt. Ltd.,	1797151	CTE	Upto 05-years
40	M/s Parul Education Foundation	2227850	CTE-Expan.	29/04/2025
41	M/s Goa Steels Limited	2025/GSPCB/ others/2997	----------	In-process

42	M/s Airport Authority of India	1301884	CCA-Renewal	Rejected
43	M/s. Deccan Fine Chemicals (India) Pvt. Ltd.,	2301506	CCA-Expan.	31/12/2028
44	M/s Mandovi River Pellets Pvt. Ltd.,	2239414	CCA-Renewal	20-09-2034
45	M/s. Delta Pleasure Cruise Co. Pvt. Ltd.,	1797151	CTE	Upto 05-years
46	M/s. DLF Exclusive Floors Pvt. Ltd., & Bhamini Real Estate Developers & M/s S. B. Deshmukh.	1086293& 2197320	CTE & CTO - review	15/05/2025
47	M/s. Lithoferro :Sircaim Barge Loading Facility	2187290	CCA-Renewal	01/06/2029
48	M/s. Gera Developments Pvt Ltd & Gera Realty Estates: (*Gera Kadamba River of Joy- Zone C)*	2284284	CCA-Expan.	15-03-2025
49	M/s Trinitas Realtors India LLP.	2245302	CCA	12/06/2025
50	M/s Fomento Resources Private Limited: Block V – Advalpale -Thivim Mineral Block	2273151	CTE	Upto 05-years
51	M/s Sesa Mining Corporation Ltd.,: Barge loading jetty at Sarmanas.	----------	Amendment	31/12/2028
52	M/s. Goa Glass Fiber Ltd.,	2517477	CCA-Renewal	20/08/2029
53	M/s. Goa Glass Fiber Ltd.,	----------	Amendment	20/08/2029
54	M/s Golden Globe Hotels Pvt. Ltd.,	**2373820**	CTE	Upto 05-years
55	M/s SIDCGL: 1.0-MLD capacity Sewage Treatment Plant (STP) at Durbhat.	2349107	CCA-Renewal	24/05/2025
56	M/s Sesa Resources Ltd.: Surla Beneficiation plant.	2370312	CCA-Renewal	22/10/2029
57	M/s Vedanta Limited: Block I- Bicholim Mineral Block	----------	Amendment	04/03/2029
58	M/s Mangal Iron Pvt. Ltd.,	2375441	CCA	24/10/2025
59	M/s Parul Education Foundation: RMC plant – VI	2452752	CCA	29/04/2025
60	M/s. The Institute of Petroleum Safety, Health & Environment Management (IPSHEM): ONGC	2452972	CTE-Expan.	28/02/2038
61	M/s GMR Goa International Airport Ltd.,	2397109	CCA-Expan.	01/08/2027
62	M/s. Harikrushna Infrastructure Pvt. Ltd.,	2334639	CCA	Rejected
63	M/s Fomento Resources Pvt. Ltd., :Block V – Advalpale -Thivim Mineral Block	2407403	CCA	29/ 04 /2025

64	M/s Chowgule and Company Pvt. Ltd., : Iron Ore dump handling at Sirigao village	2418637	CCA	18-09-2029
65	M/s. Rajaram Bandekar Mines Pvt. Ltd., :Block-III Monte De Sirigao Mineral Block.	2411934	CTE	Upto 05-years
66	M/s Vedanta Limited Amona Beneficiation Plant 1A and Dry screening (*Plant 1-B & 1-C*)	2414649	Amendment	19/05/2029
67	M/s Salgaonkar Shipping Company	2425277	CTE	Upto 05-years
68	M/s Counto Metals & Mining Co. Ltd.,	2365921	CCA- renewal	19/07/2025
69	M/s Mormugao Port Authority (MPA): Berth No. 09	2324137	CCA- renewal	11/11/2029
70	M/s Deccan Fine Chemicals (India) Pvt. Ltd.,	2471240	Amendment	31/12/2028
71	M/s. Zuari IAV Private Limited	2310401	CCA - Renewal	21/10/2029.
72	M/s Counto Metals & Mining Co. Ltd	2365921	CCA - Renewal	19/07/2025
73	M/s Ave Miriam	2251239	CCA - Renewal	01/10/2025
74	M/s Infrastructure Logistics Pvt.Ltd.,: Barge Loading facility no.3.	2448560	CCA - Renewal	28-11-2029
75	M/s. Parsekar Foods	2485911	CCA – Expan.	23/12/2026
76	M/s Salgaonkar Shipping Co. Pvt. Ltd.,	2503141	CCA	12/06/2025
77	M/s Ambey Metallic Pvt. Ltd.,	2327930	CCA – Expan.	30/11/2028
78	M/s. Zuari IAV Private Limited	2310401	CCA - Renewal	21/10/2029
79	M/s. Parsekar Foods	2485911	CCA – Expan.	23/12/2026
80	M/s Ave Miriam	2251239	CCA - Renewal	01/10/2025
81	M/s. Alzira Soares	1409346	CTE	Rejected
82	M/s. John Distilleries Pvt. Ltd., Cuncolim	2478290	CCA - Renewal	31/12/2029
83	M/s Vedanta Ltd.: Met Coke Division - II & Waste Heat Recovery Power (WHRP) plant - II	2267759	CCA - Renewal	30-12-2029
84	M/s Rajaram Bandekar Mines Pvt. Ltd., : Block -III Monte De Sirigao Mineral Block.	2509119	CCA	02/07/2025
85	M/s Prescon Homes Pvt. Ltd.,	2439495	CCA	01/10/2029

86	M/s. Zuari IAV Pvt. Ltd.,	2310401	CCA-Renewal	21/10/2029
87	M/s Imagine Panaji Smart City Development Ltd.,	2372421	CTE	In Process
88	M/s Mathias Ocean Park Residency	2400636	Amendment	28/12/2028
89	M/s Alzira Soares	1409346	CTE	Rejected
90	M/s South West Port Limited (SWPL)	21580	Amendment	07/12/2028
91	M/s. Adani Mormugao Port Terminal Pvt. Ltd.,	25758	Amendment	31/01/2030
92	M/s Delta Corp. Ltd.,	2503387	CTE	In Process
93	M/s Umiya Habitat Co-operative Housing Society	2500870	CCA-Renewal	In Process
94	M/s V. M Salgaonkar: Goa Marriott Resort	2427266	CCA-Renewal	10/11/2029
95	M/S Vedanta Ltd.,: Pig Iron Plant (PIP)-Exp.	2445089	CCA-Renewal	01/10/2028
96	M/s. South West Port Limited (SWPL)	2539892	CCA- expansion	07/12/2028
97	M/s. Adani Mormugao Port Terminal Pvt. Ltd.,	2468464	CCA-Renewal	31/01/2030
98	M/s IMC Limited	2511335	CCA-Renewal	01/12/2029
99	M/s Fomento Resorts & Hotels Pvt. Ltd.,	2512294	CCA-Renewal	29/11/2029
100	M/s Vedanta Limited: Met Coke Division (MCD-I)	2524810	Renewal	In Process
101	M/s Manipal Hospital	2464009	Renewal	20/12/2029
102	M/s Mandovi River Pellets Pvt. Ltd.,	2580799	CTE- expan	20-09-2034
103	M/s Models' Millennium.	1656742	CCA-Renewal	In Process
104	M/s. Dinar Tarcar Resources Pvt. Ltd.,	2507772	CTE	In Process
105	M/s Ganesh Benzoplast	2392743	CCA-Renewal	30/11/2029
106	M/s Ganesh Benzoplast	2561203	CTE- expan	30/11/2029
107	M/s. Cudnem Mineral Block - VI	2597525	CTE	In Process

108	M/s United Spirits	2518469	CCA-Renewal	04/01/2030
109	M/s. Bicholim Mineral Block - I	2572178	CCA-Renewal	04/03/2029
110	M/s Mathias Ocean Park Residency	2530724	CCA-Renewal	28/12/2028
111	M/s. fomento resources pvt ltd (stacking plot)	2557038	CCA	09/12/2029
112	M/s Lithoferro : ore-stacking plot	2559165	CCA	09/12/2029
113	M/s. Paradeep Phosphates Ltd.,: Ammonia Import facility	2535901	CCA-Renewal	In Process
114	M/s Paradeep Phosphates Ld., Vasco installation	2569331	CCA-Renewal	In Process
115	M/s Parsekar Foods	2579054	CCA-Renewal	23/12/2026
116	M/s Ave Miriam	2251239	CCA-Renewal	01/10/2025
117	M/s Goan Real Estate & Construction Pvt.Ltd.,: Aldea-de-Goa – Phase-5 / STP-5	2100140	CCA-Renewal	In Process
118	M/s Malco Energy Limited	2501094	CtEexpan.	03/04/2026.
119	M/s Models Millennium Vistas Maintenance Co-operative Housing Society Ltd.,	1656742	CCA-Renewal	In Process
120	M/s Goan Real Estate & Construction Pvt.Ltd.,: Aldea-de-Goa – Phase-5 / STP-5	2100140	CCA-Renewal	In Process
121	M/s. KAI International Pvt. Ltd.,	2597618	CTE	Upto 05-years
122	M/s. Mormugao Port Authority (MPA): Mooring Dolphin nos. 1, 2, 3.	2593329	Amendment	21/04/2027
123	M/s Fomento Resources Private Limited: Block-V, Advalpale -Thivim Mineral Block.	2631947	CCA-Renewal	In Process
124	M/s Models Real Estate Developers: Models' Status	1743848	CCA-Renewal	In Process
125	M/s Goan Real Estate & Construction Pvt. Ltd.: Aldea-de-Goa – Phase-5 / STP-5	2100140	CCA-Renewal	In Process
126	M/s Goa Carbon Limited	2581320	CCA-Renewal	31/03/2026
127	M/s Goa Carbon Limited	2389030	CCA – Expan.	31/03/2026

ANNEXURE-XVII

KNOWLEDGE SHARING (KS) PROGRAMME CONDUCTED DURING 2024 – 25

Sr. No.	Name of the Firm	Topic	Name of Designated person	Contact details	Date of Presentation
1	M/s Organic Recycling Systems Ltd.,	Sanjeevak Carbonization Systems	Shri. Mayur Garhande	mayur.garhande@organicrecycling.co.in mob.: 8104311270	27-02-2024
2	M/s Tellus Habitat.	Sustainable Technologies for the treatment of reclamation wastewater and solid waste.	Mrs. Seema Sukhani	seemasukhani@tellushabitat.com mob.: 8527812869	27-02-2024
3	M/s Energy Desk Private Limited.	Innovative and Energy -efficient solutions.	Shri. Mandar Velde	mandar.velde@energydesk.in	12-04-24
4	M/s Avris Environment Technologies LLP.	Design, development, manufacturing & supply of Food Waste Treatment System	Shri. Ravi Ayyangar	bharath@avristech.com ravi@avristech.com	12-04-24
5	M/s Saaf Water	Water Quality, Quantity and Flow based applications. AI-IoT based water intelligence platform.	Shri. Hrishikesh M. Bhandari	Mob.: +91 87880 56988 hrishikesh@saafwater.com	12-04-24
6	M/s Innovative Water Technologies Private Limited	Water and Wastewater Solutions	Shri. Rushad Balaporia	rushad.balaporia@iwtech.in Mob.: +919372920096	17-05-24
7	M/s Earth Care Equipments Private Limited	Organic Waste Converter.	Shri. Anniruddha Deshpande	Mob.: 9923139992	17-05-24
8	M/s Vedanta Limited	Initiatives towards C^{10}- Carbon Emissions Reduction	Sjhri. Ashish Dhanopia	Mob.: 9545615306	21-06-2024
9	M/s Microbact Bio Cultures Pvt Ltd	Biocultures for Sustainable Environment	Shri. A. N. Kulkarni	Mob.: 7972348140	21-06-2024
10	M/s Optismart Eco Solutions Pvt Ltd.,				19-07-2024
11	M/s Eco STP		Shri. Samved Khardke	Mob.: 8169610886	19-07-2024

12	M/s H2O Dynamics India Ltd.,	Sewage treatment plant / wastewater treatment plant – hg-SBR technology by Bhabha Atomic Research Centre (BARC), Dept. of Atomic Energy, Govt. of India	Shri. Krishna Gupta	Mob.: 9873382338	14-08-2024
13	M/s Magna Locus	Bio culture for composting & non-hazardous waste	Dr. Anselm de'Souza	Mob.: 9821345939	14-08-2024
14	M/s TSI Incorporated, USA / Casella Solutions, UK	M-CERT approved Dust Track Environmental Monitor & IEC 61672 Noise Monitoring equipment	Shri. Rahul Yamgar	Mob.: 9769473591	14-08-2024
15	M/s Horiba, Japan	Ambient Air Quality Monitoring System - USEPA approved, Continuous Particulate Monitor with X- ray fluorescence, Online Water Analyzers - TUV approved, CEMS and Portable Gas Analyzer etc.,			14-08-2024
16	M/s Forbes Marshall Pvt. Ltd.,	Instruments to monitor and control pollution into air & water. E.g. ETP water parameter analyzer, dust & Gas Analyzer etc.	Shri. Chidambaram Airsay	kgurlhosur@forbesmarshall.com Mob.: 9590904335	18-12-2024
17	M/s Intel Hydro	Online water quality monitoring system for ETP and STP.	Shri. Vidyashankar Shetti	vidyashankar.shetti@intelhydro.com Mob.: 8850992919	18-12-2024
18	M/s Agua Instruments Pvt. Ltd.,	Environmental Monitoring Instruments	Shri. Lalchand Khokhar	jeet@aguainstruments.com Mob.: 9321051306	31-01-2025
19	M/s S. N. Enviro Solutions	Environmental Monitoring Instruments	Shri. Krishpy Wadhwa	Mob.: 7330939313 suresh@snenviro.com	31-01-2025
20	M/s PadCare Labs	Sustainable Sanitation Technology	Ms. Pooja Anand Ajinkya Dharia	ajinkya.dhariya@padcarelabs.com Ms. Pooja Anand – Mob.: 8296488314	31-01-2025

ANNEXURE-XVIII

List of Environment Assessment (EA) of Industries from 1st April 2024 to 31st March 2025.

Sr. No.	Industry Name	EA date
1	Cosme costa hospitality (Fortune Miramar)	23-04-2024
2	V. M. Salgaonkar Hospitality pvt ltd	23-04-2024
3	raj chopra& company pvt ltd	25-04-2024
4	pacifica hotels pvt ltd	25-04-2024
5	dianabuildwellpvt ltd	26-04-2024
6	Fomento Resorts & Hotels	08-05-2024
7	Grand Hyatt	10-05-2024
8	Kamat Constructions Pvt ltd	10-05-2024
9	Mahindra Holiday resorts india ltd	15-05-2024
10	Convention Hotels India Pvt Ltd	17-05-2024
11	The indian hotels company ltd (taj holiday village resort & spa goa)	26-06-2024
12	The indian hotels company ltd (taj fort aguada resort & spa goa)	26-06-2024
13	Soham Leisure Ventures Pvt Ltd	01-08-2024
14	M/s. Aloft Calangute Goa (Unit: Le Meridian)	01-08-2024
15	M/s. Riverside Resorts & Holiday Homes Pvt. Ltd. (Unit: RESORT RIO)	02-08-2024
16	M/s. Novotel Goa Resorts & Spa (A unit of Shrem Resort Pvt. Ltd)	02-08-2024
17	M/s. Ronil Hotels & Resorts Pvt Ltd,	28-08-2024
18	Neelam Hotels Pvt. Ltd.(Neelam's The Grand)	28-08-2024
19	Averina International Pvt Ltd (Holiday In Resort)	22-04-2024
20	ITC Limited	22-04-2024
21	Sea Bird Resorts Pvt Ltd (Alila Dewa Goa)	23-04-2024
22	harp resorts pvt ltd (Bay watch resort)	23-04-2024
23	silver springs pleasure resorts (The zuri white sand)	25-04-2024
24	azaya beach resort	26-04-2024
25	indian hotel company ltd (Taj Exotica resort	29-04-2024

26	Lalit Spa & Resort	09-05-2024
27	Club Mahindra	10-05-2024
28	Club Mahindra Emerald	13-05-2024
29	Raddison Blu	14-05-2024
30	Old Anchor	15-05-2024
31	caravela Beach Resort	16-05-2024
32	ceres hotels pvt ltd	24-04-2024
33	KHR Hospitality india ltd (thekenilworth beach resort)	08-05-2024
34	cosmos premises pvt ltd (royal orchid resort galaxy)	08-05-2024
35	Ramesh hotels & resorts pvt ltd (planethollywood)	27-06-2024
36	Alcon Resort Holdings Pvt Ltd Hotel Donasylvia	29-08-2024
37	Nanu Resorts Pvt Ltd	29-08-2024
38	Varun Beverages	27-06-2024
39	shraddha ispatpvt ltd	28-06-2024
40	M/s. Godrej & Boyce Manufacturing Company Ltd.	22-08-2024
41	Indospirit Beverages Pvt Ltd	04-04-2024
42	Fortune Distilleries	05-04-2024
43	Sagar Feeds and Food Processing Industries	04-04-2024
44	Nuvoco Vistas Corporation Ltd	04-04-2024
45	M/S. Medispray Laboratories Pvt. Ltd.	29-07-2024
46	Colgate Palmolive (India) Limited	21-08-2024
47	United Breweries	02-04-2024
48	Paradeep Phosphates Limited	01-06-2024
49	Mandovi River Pellets Private Limited	25-06-2024
50	M/s. Geno Pharmaceuticals Private Limited	31-07-2024
51	M/s. Glenmark Pharmaceuticals Limited (Plant- I)	01-08-2024
52	M/s. Goa Glass Fibre Limited	30-07-2024
53	Pentair Water India Pvt.Ltd	03-04-2024

54	Jimcap Electronics Pvt Ltd	03-04-2024
55	M/s. Intech Organics Ltd.	31-07-2024
56	Shraddha Ispat (Melting Division) Pvt. Ltd.	11-12-2024
57	M/s. Orange Fox Steels Pvt Ltd	11-12-2024
58	M/s. Global Ispaat Limited.	03-01-2024
59	M/s. Shri. Balaji Rollings Pvt. Ltd.	03-01-2024
60	M/s Marine electricals india ltd. (Plant 1)	16-01-2025
61	M/s Indoco remedies ltd (plant 1)	16-01-2025
62	M/s Goa Technocoats	17-01-2025
63	M/s Mahavir plastic industries	17-01-2025
64	Sobit Sarovar Portico	15-01-2025
65	M/s. Bharat Hotels Ltd. (The Lalit Golf & Spa Resort Goa)	15-01-2025
66	M/s. Vocatus Beverages Pvt Ltd.	24-01-2025
67	M/s. Springfields (India) Distilleries	24-01-2025
68	M/s Mahalasa Pharma	23-01-2025
69	M/s. Liqon Industries Private Limited	27-01-2025
70	Stay Sharp Diamond Tools Private Limited	27-01-2025
71	M/s. Parvati Industries	27-01-2025
72	M/s. Praveena Industries	27-01-2025
73	M/s. Alcon Resort Holdings Ltd. (Radisson Blu Resort Goa)	04-02-2025
74	M/s. Alcon Resort Holdings Ltd. (Hotel Dona Sylvia)	04-02-2025
75	KemtecIndia photograph co. pvt. ltd.	07-02-2025
76	siddharth chemicals	07-02-2025
77	M/s. Itc Limited	10-02-2025
78	M/S. Bogmallo Beach Resort	10-02-2025
79	M/s. John Distilleries Pvt Ltd	14-02-2025
80	M/s. Orange Fox Steels Pvt Ltd	14-02-2025
81	M/s Indospirit Beverages Pvt. Ltd.	18-02-2025

82	United Breweries Limited	
83	M/s. Sukraft Recycling Pvt. Ltd	31-01-2025
84	Ponda Envocare Limited	
85	M/s. Global Ispaat Limited.	21-03-2025
86	M/s. Shri. Balaji Rollings Pvt. Ltd.	21-03-2025
87	ion exchange (india) ltd.	28-03-2025
88	new millenium bakers	28-03-2025
89	ceres hotels pvt ltd	02-04-2025
90	goa carbon ltd.	02-04-2025
91	Goa Meat Complex Limited	09-04-2025
92	Goa State Co-Operative Milk Producer's Union Ltd.	09-04-2025
93	Ronil hotels & resorts pvt. ltd	10-04-2025
94	Paska hotels pvt ltd	10-04-2025
95	Kansai Nerolac Paints Limited (Unit II)	21-03-2025

UNEP

WORLD ENVIRONMENT DAY

5th June'2025

COMBATING PLASTIC POLLUTION

GOA

GOA STATE POLLUTION CONTROL BOARD

APPEAL TO GENERAL PUBLIC

The Ministry of Environment, Forest & Climate Change (MoEF & CC) has notified that carry bags made up of virgin or recycled plastic shall not be less that 75µ in thickness with effect from 30th September 2021 and 120µ in thickness with effect from 31st December 2022.

Further, Single Use Plastic (SUP) items of the following categories shall be prohibited from manufacturing, import, stocking, distribution, sale and use in the State of Goa with effect from 1st July 2022.

<table>
<tr>
<td>Plastic carry bags with thickness < 75 µ w.e.f. 30th September 2021 and < 120 µ from 31st December 2022.
 </td>
<td>Plastic Spoon, Fork, Straw, Stirrer
 </td>
<td>Single-use Plastic Cups, Plates, Tumblers
 </td>
</tr>
<tr>
<td>Styrofoam based Decorative Items
 </td>
<td>Styrofoam/Thermocol plates and cups
 </td>
<td>Plastic Packets used for packing fruits and vegetables
 </td>
</tr>
</table>

Approved / permitted plastic carry bags shall have Name of the Manufacturer as well as Registration no. from the State Pollution Control Board.

Not Permitted

Permitted

Officers as notified under the Goa Non-Bio degradable Garbage (Control) Act, 1996 shall conduct inspection of wholesalers / stockists / Retailers / Users and initiate appropiate action in terms of law against the violators.