

**MINUTES OF THE 92<sup>nd</sup> MEETING OF THE GOA STATE  
POLLUTION CONTROL BOARD HELD ON 7<sup>th</sup> MAY, 2009 AT  
4.00 pm IN THE BOARD'S CONFERENCE HALL, PANAJI GOA.**

1. The 92<sup>nd</sup> meeting of the Goa State Pollution Control Board was held on 7<sup>th</sup> May, 2009, in the Board's Conference hall. The following members attended the meeting:

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|---|------------------|
| 1. Dr. L.U. Joshi   | Chairman         |
| 2. Mrs. Rajananda Dessai, Director, Dte. of Health Services                       | Member           |
| 3. Shri S.M. Paranjape Chief Inspector, Factories & Boilers, Altinho, Panaji Goa. | Member           |
| 4. Dr. Joseph De Souza, Chief Scientist GSCST                                     | Member           |
| 5. Shri Keshav Kamat, Goa State Industries Assocn.,                               | Member           |
| 6. Shri Ashok Daiwajna  | Member Secretary |

The Director of Mines and Geology informed his inability to attend the meeting.

The following members did not attend the meeting: Shri J.S.S. Rego, Chief Engineer – II, PWD, Mrs. Ruth Furtado, Councillor, Corporation of the City of Panaji, Shri A.V. Palekar, Managing Director, Goa Indl Dev. Corpn, Mrs. Carmeline Menezes, Sarpanch, Village Panchayat Guirim, Shri Sagun Wadkar, Village Panchayat Pissurlem, Shri Tulio De Souza, President, Association of Architects, Shri Nitin Kunkolienkar, President, Goa Chamber of Commerce & Industry, Shri Sanjit Rodrigues, Goa Tourism Dev. Corpn.

**Agenda Item no. 1**

**CONFIRMATION OF THE MINUTES OF THE 91<sup>ST</sup> MEETING OF THE GOA STATE POLLUTION CONTROL BOARD.**

The members approved the minutes of the 91<sup>st</sup> meeting so as to enter the same in the Minutes Book.

**Agenda Item no. 2**

**FOLLOW UP OF THE DECISION TAKEN AT THE 91<sup>ST</sup> BOARD MEETING**

*Agenda item no. 4* –Chairman informed the members that the Board has conducted ambient air quality monitoring at Mormugao Port Trust through M/s Aditya Environmental Services at the locations where NEERI had carried out the monitoring and the members were also informed of the directions issued to Mormugao Port Trust to complete the additional measures as proposed by them by 30<sup>th</sup> April, 2009.

Chairman also informed the members that the Board conducted inspections on 20/03/09, 26/03/09, 02/04/09, 09/04/09, 16/04/09 and 28/04/09. During the said inspections it has been observed that re-surfacing of the remaining roads in the Port area was nearing completion. It was noticed that no progress has been made with regard to implementation of the following measures:

1. Erection of additional water sprinklers ( 8 nos.) in and around the stack yard of the coal stack
2. Erection of additional dust suppression system at 8.1 metres height and cover with silpholin sheet ( 200 gsm) additional length of 120 metres on city side.
3. Additional mechanized / sweepers deployed for sweeping and watering the roads and pavements.

The members were also informed that the ambient air quality monitoring reports for the month of March indicate that the values for Respirable Particulate Matter are exceeding the permissible limits at Colaco Arcade and Laximi Temple on 24/03/09 and M.P.T Institute on 25/03/09. During the month of April it was observed that the values of RPM are exceeding at Caldeira Arcade on 24/07/09 at Colaco Arcade on 20/04/09, 21/04/09 and 28/04/09 at Laximi Temple on 06/04/09, 07/04/09, 13/04/09, 14/04/09, 21/04/09, at MPT Institute on 01/04/09, 08/04/09, 09/04/09, 15/04/09, 16/04/09, 23/04/09. It was also observed that the values of SPM are marginally exceeding the permissible limits at Laximi Temple on 06/04/09, 07/04/09 and 21/04/09 at MPT Institute on 08/04/09. The values of SPM are exceeding the permissible limits on 09/04/09 and 15/04/09. The Chairman further stated that the reports indicate that the values of Respirable Particulate Matter, Suspended Particulate Matter at some places exceeded the permissible limits.

A copy of the order dated 12/03/2009, passed by the Hon. High Court in Suo Motu Writ Petition no. 08/2001 was circulated among the members. The members were informed that the Board has been directed to take an ultimate decision with regard to suggestions/recommendations made by

NEERI with regard to measures to be implemented for control of pollution by Mormugao Port Trust.

After deliberations the members decided to constitute a Committee to ascertain the status of compliance of the recommendations made by NEERI (as stated above) and the directions issued by the Board on 11/02/09. It was further decided that the Committee would also look into the aspects of values of Respirable Particulate Matter and Suspended Particulate Matter exceeding permissible limits as per the ambient air quality monitoring reports stated above. In this regard it was decided to call the officials of Mormugao Port Trust before the Committee so as to enable the Committee to prepare a report to be placed before the Board at the next Board meeting. On considering the report of the Committee, the Board will then take an ultimate decision with regard to suggestions/recommendations made by NEERI with regard to measures to be implemented for control of pollution by Mormugao Port Trust, as per the directions of the Hon. High Court contained in order dated 12/03/2009.

The Board nominated the following officials as members of the Committee:

1. Dr. Joseph De Souza, Chief Scientist, Goa State Council for Science and Environment - Member
2. Shri Ashok Daiwajna, Member Secretary or Shri Rajendra Kamat, Executive Engineer of the Board
3. Shri Sanjeev Joglekar, Assistant Env. Engg., of the Board

Mrs. Natalia Dias, Assistant Law Officer / Shri Constance Fernandes, Junior Legal Officer shall assist the above members on the legal aspects.

The Committee has been directed to ensure that the report is placed before the Board at the next Board meeting.

*Agenda item no. 5* – Chairman informed the members the directions dated 27/02/09 were issued to M/s Sesa Industries Ltd. to comply with certain measures including recommendations made by NEERI in its report that was submitted to the Hon. High Court in Writ Petition no. 243/2008.

The members were further informed that M/s Sesa Industries Ltd., has submitted a point wise reply and action plan in this regard. A copy of the same was circulated to the members. The members observed that the reply indicates that M/s Sesa Industries Ltd. has not implemented / is studying feasibility for implementation of the recommendations at serial no. 3, 7

under the heading Raw material and handling and serial no. 3, 5 and 6 under the heading Sub-head Cast House emissions of the NEERI report. The reply further indicates that the unit has complied with the rest of the recommendations.

After deliberations the members decided to constitute a Committee of the following officials to verify the compliance of the directions dated 27/02/09 by M/s Sesa Industries Ltd. The members further decided that the Committee would call the officials of M/s Sesa industries Ltd. for a meeting so as to discuss/ clarify with regard to non implementation of the recommendations at serial no. 3, 7 under the heading Raw material and handling and serial no. 3, 5 and 6 under the heading Sub-head Cast House emissions of the NEERI report.

The Board nominated the following officials as members of the Committee:

1. Dr. Joseph De Souza, Chief Scientist, Goa State Council for Science and Environment - Member
2. Shri Ashok Daiwajna, Member Secretary or Shri Rajendra Kamat, Executive Engineer of the Board
3. Shri Sanjeev Joglekar, Assistant Env. Engg., of the Board

Mrs. Natalia Dias, Assistant Law Officer / Shri Constance Fernandes, Junior Legal Officer shall assist the above members on the legal aspects.

The Committee has been directed to place the report before the Board at the next Board meeting.

**Agenda Item no. 3**

**APPLICATION FOR CONSENT TO OPERATE UNDER WATER AND AIR ACT OF M/s JAIN UDYOG.**

Chairman informed the members that Board in its 86<sup>th</sup> meeting had decided to permit operation of the plant of the unit of M/s Jain Udyog for a period of one year subject to the following conditions:

1. The Board should monitor the unit by appointing two recognized Environmental laboratories to carry out ambient and stack monitoring for a period of three months.
2. The unit should carry out an Environment Impact Assessment Study and submit the same to the Board.

It was further informed that monitoring of the operation of M/s Jain Udyog was carried out through the following laboratories for the following period.

1. M/s Klean Laboratories, Pune – November, 2008
2. M/s J.M. Environet, Delhi – February, 2009

From the monitoring reports submitted by the said agencies, it is indicated that all parameters are within prescribed limits. On perusal of the reports submitted by M/s Jain Udyog for monitoring carried out independently by them it is indicated that all parameters are within prescribed limits. The unit was not in operation during the following period.

25/06/08 to 04/07/08, 12/08/08 to 23/08/08, 04/09/08 to 11/09/08, 23/10/08 to 09/01/08, 01/12/08 to 01/02/09, 12/03/09 to 19/03/09.

M/s Jain Udyog has also submitted a report of the EIA study as directed by the Board in the 86<sup>th</sup> meeting. On perusal of the report, it is inferred as follows:

Chapter V of the EIA report, results of the dispersion modeling has been carried out. The same indicates that in the maximum worst case values of sulphur-dioxide and Suspended Particulate Matter predicted at a distance of 0.6 kms (Kalay village) would be 2.8 mg/Nm<sup>3</sup> and 187.6 Mg/Nm<sup>3</sup> which is within the permissible limits prescribed. In Chapter VI, the photograph of the measures undertaken by the industry such as increase in stack height to 50 metres, installation of new DG set, installation of water sprinklers, provision of covered shed for storage of coal, installation of separate electric meter for pollution control equipment, plantation of trees, construction of storm water drainage around the plant area are enclosed. In Chapter VII, the further control measures to be undertaken with regards to air, water, noise and solid waste have been listed.

The Chairman further informed the members that the unit has submitted an application for Consent to Operate as the same had expired on 31/03/09. The unit was granted further extension upto 31/05/09 in the interim period as the Board meeting could not be held as the Code of Conduct for the Lok Sabha elections was in force.

After deliberations and perusal of relevant documents, the members decided to issue Consent to Operate under the Water and Air Acts to the unit of M/s Jain Udyog for a period of two years i.e from 01/04/09 to

31/03/2011 and also permit the unit to store the coal in a closed shed constructed by the unit.

The members further decided that the Board should continue further monitoring of the unit on a regular basis.

**Agenda Item no. 4**

**APPLICATION FOR CONSENT TO ESTABLISH AND CONSENT TO OPERATE UNDER WATER AND AIR ACT OF M/s SHANTILAL KUSHALDAS & CO. PVT. LTD. (ZOLORACHO DONGOR IRON ORE MINE BEARING T.C. NO. 44/51) MAINA, QUEPEM**

Chairman informed the members that the mine has obtained Environmental Clearance from the Ministry of Environment and Forests, Govt. of India. As per the Environmental Clearance granted there are no wild life sanctuaries, heritage parks within 10 kms of the lease area.

Chairman further stated that mine was inspected by the Board officials and it was found not in operation.

After deliberations, the members decided to grant Consent to Establish and Consent to Operate to the mine of M/s Shantilal Kushaldas & Co. Pvt. Ltd. (Zoloracho Dongor iron ore mine bearing T.C. no. 44/51) Maina, Quepem, subject to the condition that the Consent to Operate is granted for operation only in non forest areas.

**Agenda Item no. 5**

**PURCHASE OF MASS SPECTROPHOTOMETER**

The Chairman informed the members that the Ministry of Environment and Forests had provided funds for purchase of Gas Chromatograph in 2005. The specifications for the purchase of the instrument were finalized by the Technical Committee comprising of two Scientists from National Institute of Oceanography, Consultant of the Board (Ex-Scientist of N.I.O) and an Engineer of the Board. The tender notice was published in the Mumbai edition of Indian Express and local English daily.

Subsequently, the Ministry of Env. & Forests has provided funds of Rs. 35 lakhs for purchase of Mass Spectrophotometer in 2008, which will be an attachment to the Gas Chromatograph. Chairman stated that for the unit to be compatible to the Gas Chromatograph the Mass Spectrophotometer will have to be purchased from M/s Perkin Elmer Ltd.

Accordingly, quotation was been invited from M/s Perkin Elmer Ltd. for purchase of Mass Spectrophotometer. M/s Perkin Elmer Ltd. has quoted an amount of Rs. 48 lakhs.

The members put forth that since the Gas Chromatograph has been purchased from M/s Perkin Elmer Ltd., the amount quoted for the attachments should be at a discounted rate as the same is for up-gradation of the instrument. The members were also of the opinion that the Board should negotiate on the amount quoted by M/s Perkin Elmer Ltd. Chairman informed the members that the rate quoted by M/s Perkin Elmer Ltd is a negotiated amount.

The members approved the purchase of Mass Spectrophotometer for the quoted amount of Rs. 48 lakhs by M/s Perkin Elmer Ltd, which is. an attachment to the Gas Chromatograph. The members also approved that the additional expenditure of Rs. 13 lakhs over and above the funds provided by Ministry of Environment and Forests (Rs. 13 lakhs) from the funds of the Board.

The members also agreed that the request for additional funds should be forwarded to the Ministry of Environment and Forests.

**Agenda Item no. 6**

**ACTION WITH REGARD TO NON-COMPLIANCE OF ESTABLISHMENT OF COMMON HAZARDOUS WASTE, TREATMENT, STORAGE AND DISPOSAL FACILITY FOR THE STATE OF GOA.**

Chairman informed the members that as per Rule 8(2) of the Hazardous Waste (Management and Handling) Rules, 1989, as amended, the State Govt. and the Association of Industries are jointly and severely responsible for identification of site for Common Hazardous Waste, Treatment, Storage and Disposal Facility (CHWTSDF).

Chairman further informed that the site was identified at Dharbandora by the State Govt. and an EIA study was conducted by the Goa Indl. Dev. Corpn., and Public Hearing conducted by the Board. The Ministry granted Environmental Clearance for the proposed site and accordingly a Notification in pursuance of sub- Rule 7 of Rule 8 of the Hazardous Waste Rules, notifying the site at survey no. 193/1 of Village Dharbandora for setting of Common Hazardous Waste, Treatment, Storage and Disposal Facility was issued by the State Govt..

Chairman further informed the members that vide Note dated 11/09/06 and 21/11/08, the Board had brought to the notice of the State Govt. that in accordance with order of the Hon. Supreme Court dated 14/10/2003, passed in Writ Petition no. 657/1995, all units generating land fillable hazardous waste will have to be issued closure directions for not establishing a CHWTSDF within a stipulated time. Letters were also issued by the Board to all industries generating land fillable hazardous waste for submission of action plan, the industries have replied stating that they have become members of the Industrial Waste Management Association which will undertake the work of establishment of CHWTSDF. However, no further progress regarding the same is achieved as the land is not handed over to the Association and an approach road has also not been provided.

After deliberations and perusal of documents, the members decided to call the following officials for a hearing to discuss the further progress in regard to the construction of CHWTSDF and the issues pertaining to Writ Petition no. 657/1995, namely: Managing Director, Indl. Dev. Corp., Collector, South Goa, Secretary, Industrial Waste Management Association and a Representative of the State Govt.

Accordingly the Board has nominated the following officials as members of the said Committee, namely;

1. Dr. Rajananda Dessai, Director of Health Services
2. Mr. S.M. Paranjape, Chief Inspector, Factories and Boilers
3. Shri Ashok Daiwajna, Member Secretary
4. Shri Sanjeev Joglekar, Assistant Env. Engg.,

**Agenda Item no. 7**

**APPROVAL OF THE REPORTS SUBMITTED BY M/S PADMAJA AEROBIOLOGICALS (P) LTD., NAVI MUMBAI ON:.**

The Chairman informed the members that the Central Pollution Control Board had provided funds of Rs. 2/- lakhs each to prepare various reports. Accordingly a tender notice was issued in the newspapers inviting offers from the Environmental Laboratories for the preparation of the reports. M/s Padmaja Aerobiologicals (P) Ltd, Navi Mumbai, was awarded the work of preparation of reports as listed below for an amount of Rs. 1.74 lakhs, Rs. 1.85 lakhs and Rs. 1.74 lakhs respectively. M/s Padmaja Aerobiologicals (P) Ltd, Navi Mumbai, has submitted the following reports:



1. 'Assessment of Pollution from Specific Sources – Status of Sewage Management in Goa'
2. 'Assessment of Pollution from Specific Sources – Status of Bio-medical Waste Management in Goa'
3. 'Assessment of Pollution from Specific Sources – Status of Municipal Solid Waste Management in Goa'

The members approved the reports so as to forward the same to the Central Pollution Control Board. The members were of the opinion that the reports may also be submitted to the State Govt. for implementation, especially in respect of the Municipal Solid Waste and Bio-Medical Waste.

The members approved to release the payment to M/s Padmaja Aerobiologicals (P) Ltd, Navi Mumbai, towards preparation of the reports as listed above for the respective quoted amounts, and also to send the Utilization Certificate to Central Pollution Control Board at the earliest.

**Agenda Item no. 8**

**ACTION WITH REGARD TO DISPOSAL OF THE HAZARDOUS WASTE STORED BY M/S SUNRISE ZINC LTD. AT CUNCOLIM INDL. ESTATE**

The Chairman informed the members that the unit of M/s Sunrise Zinc Ltd., Cuncolim Indl. Estate has closed operations and the unit is now in possession with the Stressed Assets Management Branch of the State Bank of India. The hazardous waste generated by the unit is presently stored within the premises and covered with tarpaulin. However, during inspection it has been observed that the said tarpaulin cover has been torn at certain places.

Chairman further informed the members that this office had brought the same to the notice of the Authorized Officer of the State Bank of India and directed to cover the same before monsoons and have also asked to proceed with the construction of a captive land fill site on the plot allotted by the Indl. Dev. Corpn. to M/s Sunrise Zinc Ltd. and that no reply has been received from the State Bank of India till date.

The members were of the view that the Board should correspond directly with the Directors of M/s Sunrise Zinc Ltd. with a copy endorsed to the State Bank of India to cover the hazardous waste stored within their premises with tarpaulin, which has since been worn out and continue with the work of encapsulating the hazardous waste in the captive land fill site. It was also decided that State Bank of India be asked to grant permission to

the Directors of M/s Sunrise Zinc Ltd. to enter the premises to carry out the said works before the onset of the monsoons.

**AGENDA ITEM NO 9**

**AMENDMENT IN THE CONSENT ISSUED UNDER THE WATER ACT TO FIVE AND THREE STARRED HOTELS FOR TREATMENT OF BIODEGRADABLE/ ORGANIC WASTE.**

The members perused this item and decided to differ for the next meeting as the matter requires to be studied in greater depth. Accordingly, members have directed the Member Secretary to submit a detailed report on technical aspects on technologies/ equipment available for treatment of biodegradable waste for converting the same into compost. The members desired that the report be placed at the next Board meeting.

**Agenda Item no. 10**

**APPLICATIONS CLEARED IN THE TECHNICAL ADVISORY COMMITTEE FROM 11/02/09 TO 21/04/09**

The members perused and approved the list of applications cleared in the Technical Advisory Committee during its meetings held from 11/02/09 to 21/04/09.

**Table Item no. 01**

**PAYMENT OF CHARGES TOWARDS NABL CONSULTANCY**

Chairman informed that members that M/s Bhagawati Ana Labs, Hyderabad were appointed as Consultants by the Board for obtaining NABL accreditation for their quoted amount of Rs. 2,93,540/- and the same is already been paid to them.

It was also informed that M/s Bhagawati Ana Labs, Hyderabad has now submitted bills for travel and accommodation for a total amount of Rs. 48,538/-.

The members approved for payment of Rs. 48,538/- towards travel and accommodation to M/s Bhagawati Ana Labs, Hyderabad.

**Table Item no. 02**

**PURCHASE OF TOXICITY, CHARACTERISTICS, LEACHATE PROCEDURE (TCLP) INSTRUMENT**

Chairman informed the members that the tenders were invited for the purchase of Toxicity, Characteristics, Leachate Procedure (TCLP)

instrument, which is used in analysis procedure and will be an additional asset for the Board in carrying out the analysis. It was informed that only one quote was received i.e for M/s Millipore (India) Pvt. Ltd. for an amount of Rs. 14,40,785.25/- inclusive of taxes and the quote for the post warranty annual maintenance contract for two years which works out to Rs. 27,575.00/-. The total amount works out to Rs. 14,68,360.25/-.

The members were also informed that the Purchase Committee of the Board scrutinized the bid and has recommended for the purchase of the said instrument.

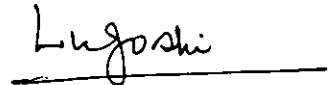
The Members approved for the purchase of Toxicity, Characteristics, Leachate Procedure (TCLP) Instrument from M/s Millipore (India) Pvt. Ltd. for an amount of Rs. 14,40,785.25/- inclusive of taxes and the post warranty annual maintenance contract for two years which works out to Rs. 27,575.00/-. i.e a total amount of Rs. 14,68,360.25/-.

II. Chairman informed the members that the last meeting of the Board is tentatively scheduled to be held on 2<sup>nd</sup> June, 2009 and requested all the members to be present for the same.

III. The meeting ended with thanks to the Chair



Member Secretary  
Goa State Pollution Control Board



Dr. L. U. Joshi  
Chairman  
Goa State Pollution Control Board