

**MINUTES OF THE 98TH MEETING OF THE
GOA STATE POLLUTION CONTROL BOARD
HELD ON 19TH AUGUST , 2010 AT 3:30 pm
IN THE BOARD'S CONFERENCE HALL**

1. The 98th meeting of the Goa State Pollution Control Board was held on 19th August, 2010 in the Board's Conference hall.

The following members attended the meeting

1. Dr Simon N. de Sousa, Chairman, GSPCB
2. Principal Chief Engineer, Water Resources Dept was represented by Shri. A. Salelkar, Superintending Engineer, Water Resource Dept.
3. Shri Sanjit Rodrigues, Director of Industries Trade and Commerce & Managing Director, Goa State Infrastructure Development Corporation
4. The Director of Mines and Geology was represented by Shri Hector Fernandes, Senior Technical Assistant, Dept. of Mines & Geology
5. The President, Goa Chamber of Commerce and Industries was represented by Shri Joseph D'Souza, Member, Managing Committee, GCCI
6. Shri Shekhar Sardessai, President, Goa State Industries Association
7. Shri A. D. Naik, Managing Director, Goa Industrial Development Corporation
8. Shri Ramkrishna Kerkar, Member, Village Panchayat Candolim, Bardez
9. Shri Gurunath Laad, Councillor, Margao Municipal Council
10. Shri Srinet Kothwale, Member Secretary, GSPCB

Further, as requested by the Chairman, Shri N. Somasundaram, Sr. Hydrogeologist, Water Resource Dept. was also present to brief the Board on the report submitted by the Water Resource Dept. in respect of Agenda item no. 09 of the 96th meeting of the Board and follow up action on the same.

II. At the outset the Chairman welcomed all the members present for the 5th meeting of the reconstituted Board. Chairman informed the members of the Board that Shri Shekhar Sardessai has taken over as the new President of the Goa State Industries Association and welcomed him for the meeting..

III. Chairman informed the members that as per the Water Act and the Goa Water Rules, 1988, the Board should meet every three months, and hence, this meeting should have been held by 8th August, 2010. However, the meeting could not take place as due to Assembly session, the Board staff were busy in the preparation of the replies to the Legislative Assembly Questions and that most of the Board members being Head of the Departments were also busy in preparing

replies to the Assembly questions, hence, there was a delay in convening the meeting. The members noted the same and decided to condone the delay.

IV. Chairman informed the members that the Board has commenced accepting online applications on XGN from 01/07/2010 and the software is operating satisfactorily. However some more customization is required in the software to make the software compatible to the present working systems of the Board including the provision for Technical Advisory Committee. The Chairman then informed the members that proposal has been sought from the NIC for further customization of the software. The Chairman stated that on receipt of the proposal for further customization work order will be issued as well as necessary payments will be made to N.I.C. Further, Chairman informed the members that the Board will have to engage services of the mobile service providers to send SMS on the XGN Software and it is proposed to engage the existing mobile service provider for providing the facility after following due procedures. The details of the same will be provided in the next meeting of the Board. The Chairman then stated that on commencement of the software it is felt that there is no need to print and sell the applications forms for Consent to Establish and Consent to Operate as the same can be downloaded from the website.

The members noted and agreed for the same.

AGENDA ITEM NO. 01

Confirmation of the minutes of the 97th meeting of the Goa State Pollution Control Board held on 07/05/2010

The members confirmed the minutes of the 97th meeting of the Board held on 07th May, 2010, so as to enter the same in the minutes book.

AGENDA ITEM NO. 02

a. Follow up action on the decision taken at the 77th meeting of the Goa State Pollution Control Board held on 29/01/2007.

Chairman informed the members that earlier the Board was not insisting upon the industries / enterprises for obtaining both Air and Water Consents for certain kind of units such as units dealing with fabrication, stone crushers etc. However, the Board in its 77th meeting had decided that small scale industries registered permanently with Directorate of Industries, Trade and Commerce should be charged one fee for the past period on pro-rata basis and no late fee should be charged upto 31st March, 2007. The members further decided that if the permanently registered industries / enterprises do not apply by 31st March, 2007, the units were told to pay past fees as well as late fees.

In the 79th meeting, the members decided that extension should be granted to small scale industries for submitting applications for a period of 30 days after the 'Combined form' is notified by the Government. Till date, the Combined form is not yet notified by the Government.

During the 88th meeting held on 6th June, 2008, the Board had agreed for levying of one fee for the past period of operation for International Centre, Goa on receipt of representation from them. Like wise, the Board is now in receipt of a representation from M/s Goa Rajee Auto requesting the Board that that the facility of payment of one past fee on pro-rata basis for past period of operation should be made available to their unit as is available to the permanently registered small scale units and being a service industry, they are not registered with the Directorate of Industries, Trade and Commerce.

Considering the fact that the Board was not earlier insisting on obtaining Consent to Operate under the Water Act and the Air Act and the Board has agreed for levy of one past fee for permanently registered SSI unit have either Water Consent or Air Consent. Members agreed to levy one fee for the past period of operation for all Industries / Enterprises / Hotels that have obtained either Water Consent or Air Consent, until the Combined form is notified by the State Government

Agenda item no. 20 – Chairman informed the members that the Board in its 77th meeting held on 29/01/07 had decided to explore the possibilities for acquiring land and constructing an independent building. However, no action has been initiated in this regard till date.

He also informed the members that the Board is presently housed in 1000 sq. metres of built up area on the first floor and fourth floor of Dempo Tower building at Patto Plaza. Part of the laboratory is on the first floor and the remaining part is on the fourth floor which is not contiguous, thereby disrupting the day to day functioning. There has also been objections from other members of the Society in the building for storage of cylinders required for carrying out analysis.

He further informed the members that the Board is now in the process of purchasing additional equipments for analysis through the funds received from the Ministry of Environment and Forest, Govt. of India and Central Pollution Control Board and that the Board has also submitted a proposal to the Dept. of Science, Technology & Env., seeking creation of additional posts to perform its mandate efficiently.

Chairman requested Shri Sanjit Rodrigues, the Board member and Managing Director of the Goa State Infrastructure Development Corporation to

assist the Board in this regard. Shri Rajendra Kerkar also suggested that the Board could explore the possibility of requesting the Comunidade of Pilerne and other Comunidades in the vicinity of Panaji, for allotment of suitable plot.

After deliberations, the members unanimously decided that the Board should have its own independent building similar to that of other State Boards. It was also decided that the Board may request the Collector, (North Goa), Planning and Development Authority, Goa Housing Board or the Comunidades to provide a suitable plot of land with an area where a building of 2000 sq. mtrs. built up area is permissible in Panaji City or in the vicinity of the Panaji City or may also issue an advertisement in the local newspapers inviting quotations for a suitable plot of land for construction of the Board office and the laboratory.

Table Item no. 03. – Chairman informed the members that the Board in its 77th meeting held on 29/01/2007 had approved appointment of National Environmental Engineering Research Institute, Nagpur (NEERI) to carry out assessment and management of ground water soil, and surface water due to the past and present activities of M/s Sunrise Zinc Ltd. (SZL), at plot no. L-2, Cuncolim Industrial Estate and M/s Nicomet Industries Ltd.(NIL), at plot no. L-15, 19 and 20, at Cuncolim Industrial Estate at the quoted rate of Rs. 20 lakhs plus service tax as applicable.

Accordingly, M/s SZL. and M/s NIL deposited 50% of the amount which was forwarded to NEERI for commencement of the study.

NEERI has submitted an interim report of the said study. However, NEERI has not specified the following points in the report.

- a. Feasibility study on remediation of contamination of soil, ground and surface water.
- b. Delineation of remediation action plan for contaminated soil, ground water and surface water

On seeking clarification from the NEERI, NEERI has sought the payment of the balance amount of Rs. 10 lakhs for submission of the final report. Accordingly letters were issued to M/s NIL and M/s SZL for payment of the balance amount. M/s NIL has deposited an amount of Rs. 5 lakhs. However, the unit of M/s SZL is closed and not in operation since 2008 and the Board is now required to make a payment of Rs. 10 lakhs to the NEERI.

After deliberations and considering the importance of the said study report to the Board, the members decided as follows:

- a. To pay NEERI an amount of Rs. 5 lakhs through the funds of the Board and debit the expenditure towards funds received under the Water Cess from the Ministry of Environment and Forests, Govt. of India.

- b. Invite the officials of the State Bank of India, and apprise them of the report submitted by NEERI and the payment to be made to NEERI by M/s SZL in this regard.
- c. Stake a claim to the State Bank of India for Rs. 5 lakhs towards the expenditure incurred towards the preparation of the report.

b. Follow up action on the decision taken at the 78th meeting of the Goa State Pollution Control Board held on 21/02/2007.

Agenda item no. 9 – Chairman informed the members that during its 78th meeting held on 21/02/2007, the Board had decided to auction the old mobile laboratory (Tempo Traveller) purchased in the year 1997, as the vehicle is no longer road worthy.

The Chairman further informed the members that at present, the Board has engaged the present available vehicles for inspection etc. Besides this, the Board has empanelled an agency for providing vehicles on hire basis by calling quotations.

The members agreed to auction / condemn the said vehicle by following the necessary codal formalities. The members further agreed that instead of purchasing any new vehicle thereby creating an additional liability, the Board should only hire vehicles for its official purposes by following necessary codal formalities, as followed by the other Departments / Corporations of the State Govt.

c. Follow up action on the decision of the 94th meeting of the Goa State Pollution Control Board held on 12/08/09.

Agenda item no. 4 – Chairman informed the members that presently, the Board is having a Panel of Advocates for representing the Board in the various Courts. In a number of cases, the views of the Goa State Pollution Control Board and the State Govt. are required to be coordinated and that the stand adopted by the State Govt. is identical to that adopted by the State Pollution Control Board. The members decided to request the Ld. Advocate General of the State of Goa to represent the Board in certain matters. The Board further authorized the Chairman to make allotment of cases as per the cases / Petitions etc.

d. Follow up action on the decision of the 95th meeting of the Goa State Pollution Control Board held on 11/11/09.

i. Agenda item no. 5 - Shri Sanjit Rodrigues, Chairman of the Sub-Committee constituted by the Board vide order dated 12/04/2010, informed the members that a meeting of the members of the Sub-committee met on

17/08/2010. He further informed the members that the Consultant who prepared the reports has only done cut and paste jobs as no portion of the reports is relevant to the State of Goa and that not even basic ground level study / analysis has been done. Further, the language of the report is not even upto the mark. He further informed that the Consultant has not taken any initiatives to offer recommendations and suggestions in the report. He also informed that these reports are required to be analyzed and studied in detail and hence would take some time. He also stated that as far as Bio-medical waste is concerned, the Goa Medical College Hospital, Bambolim and the Hospicio Hospital, Margao, have not even submitted the details as far as the Bio-medical waste generated within their premises. It was also felt that these two major hospital of Goa are not co-operating in this regard even after continuous reminders to them.

Shri Sanjit Rodrigues also stated that the Director of Health Services is also required to provide information regarding generation of bio-medical waste from Primary Health Centres, Community Health Centres, Urban Health Centres as well as Goa Medical College Hospital, Asilo Hospital and Hospicio Hospital.

The members of the Board felt that since Goa Medical College Hospital, Bambolim is the major generator of the Bio-medical waste, i.e 60% of the total Bio-medical waste, and it is not possible to prepare the reports without the inputs from these Institutions. The members decided that Chairman should bring this to the notice of the Secretary (Health) in this regard.

The members thereafter decided to grant further time of three months for finalization of the Reports on Bio-medical waste, Municipal Solid waste and Plastic waste, as requested by the Chairman of the Sub-Committee.

ii. As regards the preparation of the following four reports, Chairman of the Sub-Committee agreed to scrutinize the reports.

1. Status of Sewage management in the State of Goa.
2. Status of Batteries (Waste Handling) as per the Batteries Waste Management Rules
3. Status of Industrial Pollution control in the State of Goa.
4. Disseminating information of State Pollution Control Board (at a glance like trend of air, water quality, status of pollution control in problem areas, projection of pollution in the next 5-10 years in the State.)

The members decided that Shri Sanjit Rodrigues should continue as the Chairman of the Sub-Committee for assessment of all the above mentioned reports. The members thereafter decided to authorize the Chairman of the Board to issue an order to this effect and also authorized the Chairman of the Sub-

Committee to co-opt members as required for scrutiny /comments on each of the above reports.

d. Follow up action on the decision taken at the 96th meeting of the Goa State Pollution Control Board held on 09/02/2010

Agenda item no. 09 – Chairman informed the members that the mining companies had approached the Hon. High Court with regard to the directions issued by the Board for implementing the recommendations made by National Environmental Engineering Research Institute, Nagpur (NEERI) stating that they were not heard before the directions were issued. The Hon. High Court vide order dated 30/11/2009 had directed the Board to conduct a hearing with respect to the objections filed by the mining companies. As directed by the Hon. High Court, a hearing was conducted on 12/01/2010 during which the Scientists of NEERI, Central Ground Water Board (CGWB), officials of Water Resource Department (WRD), Govt. of Goa, Officials of the Dept. of Mines and Geology (DMG), Govt. of Goa and the representatives of the mining companies were present. The minutes of the hearing were placed before the Board in its 96th meeting held on 09/02/2010, wherein the Board decided to issue directions to the mining companies should forth with implement the following three measures suggested by NEERI and agreed by the CGWB and the WRD.:

- a. Construction of re-charge trenches to control seepage of water into the mining pits.
- b. Proper slope stabilization in the mining areas to minimize run off from over burden dump material to the nearby agricultural fields.
- c. Remediation technique for bio-remediation of silted fields.

The mining companies in the hearing held on 12/01/2010 had also agreed to carry out the above measures with best resources available.

The CGWB, WRD and Scientists of NEERI were of the opinion that further feasibility study requires to be carried out in order to implement the following recommendations made by NEERI.

- i. Roof top water harvesting structure.
- ii. Construction of sub-surface dykes and bentonite grouting to control seepage.

The members then considered the opinion of the WRD who were present during the meeting decided that the WRD should be requested to carry out field studies for implementation of the above two measures. A letter was issued to the WRD requesting them to conduct a study. Shri N. Somasundaram, Sr. Hydrogeologist of the Water Resource Dept has submitted his report on implementation of the above two measures as suggested by NEERI.

The Sr. Hydrogeologist gave a detailed presentation before the Board with Google maps of Sirigao village in respect of his report highlighting the following points:

- a. Roof top harvesting in individual houses:
- 75% wells in Sirigao Village were having depth to water level less than 3 metres in August, 2008 and the ground water level almost touches the ground level during some period the monsoon and these wells would reject additional re-charge (roof top rain harvesting and re-charging during monsoons).
 - About 15 wells located at higher elevations and foot hills may take additional re-charge during monsoons but re-charge water would migrate fast, therefore prolonged re-charge maybe required beyond monsoons for those 15 wells.
 - Ground water levels measured in the last week of May, 2010, indicate that wells located close to the field area and in the vicinity of the stream where water is discharged from the mines are not drying. 80% of the wells are rejuvenated and water was available in the month of May, 2010 due to re-charge measures taken up by the mining companies in the year 2009-2010. Wells were found to be dry in the small area between PWD tank, Yatra ground, two wells near the temple and two wells in the south-eastern part of the Village.

The report of the WRD has suggested deepening of the mine dug wells on experimental basis, which are annexed at Annexure II of the Report. Further monitoring of ground water levels is recommended in selected wells. The WRD report has also suggested that further studies are required to be conducted to supplement the data collected by NEERI for deciding on deepening of wells as well as roof top harvesting.

- b. Creating artificial re-charge structures:
- The WRD report states that M/s Rajaram Bandekar Mining Company and M/s Chowgule & Co. have already established filtration unit and have made attempts to re-charge ground water to re-charge pits. The system should be made functional and additional re-charge pits may be constructed in locations where wells were found to be dry in May, 2010 (Yatra ground, Lairaya temple etc.)

The WRD report also suggests providing re-charge pits on the hill slope and extending existing recharge pits to be considered for recharging wells which were found to be dry in May 2010.

- c. Control of seepage of water into mine by bentonite grouting along selected edges of mine:

- NEERI has recommended in their report, bentonite grouting in between Assanora river and working mine of M/s Dempo Mining Corporation for controlling seepage of water from field to mine pit. The top bench of working phase is located 20 metres from Assanora river.
- The report of the WRD suggests that the proposed bentonite grouting will reduce cost of pumping for M/s Dempo Mine, however, it will not help to improve ground water regime in the surrounding, neither it will rejuvenate dried up wells in the Village or improve the water levels of the (Holy tank). The proposed bentonite grouting at the edge of M/s Dempo mine would not serve any public interest in improving ground water regime of the vicinity.

The report of the WRD has suggested exploration of bore wells at 3 locations to explore the ground water potential.

- d. Conservation of ground water by creating backfilling area into the aquifer storage recovery system by construction of sub-surface dyke and adding clean mine water into the system

NEERI in its report has recommended construction of dyke of length 150 meters, height 30 meters, width at bottom 5 meters and width at top 1 meters like a gravity dam across backfilled area and it is proposed to pump water into the backfilled pit of M/s Chowgule & Company.

The report of the WRD indicates that the above measures recommended by NEERI are not feasible for the following reasons:-

1. Sub surface dyke constructed to a depth of 5 meters in closed water shed where ground water is flowing out in defined path. There should be relatively impermeable strata below the dyke. However, the situation does not exist at the site. The majority of the water from the village migrates to the field and there are different paths of migration.
2. No aquifer on upstream side of the proposed dyke.
3. There is no hard rock strata available below the proposed dyke and water would find its way below the structure as the pumping is at lower elevation.
4. The mining pit has been partly backfilled and more backfilling is envisaged in the future. Proper backfilling would retard the free flow of water into the mining pit.
5. The stability of the structure is questionable as the geological formation is ranging from magniferous clay, silt, gravel etc that has bearing capacity of 10 to 20 tons per sq.mts.

However, keeping in view the recommendations made by NEERI for construction of sub-surface dykes and the stability of the structure, vis-a vis

the prevailing soil conditions, the report of the WRD recommends that the mining companies should provide a layer of impermeable mining rejects in between the existing back filled area and future area proposed for backfilling in lieu of clay stones or concrete sub-surface dyke recommended by NEERI. The level of backfilling at the village boundary should be higher and drainage trench may have to be constructed at the hill side and not village side.

e. Lacuna in ground water assessment made by NEERI

The WRD report indicates that NEERI has not assessed water requirement of irrigation purpose for 20 hectares of fields. All mitigation measures suggested by NEERI will not rejuvenate springs traditionally used for irrigation.

The report of the WRD suggests that the flow in the streams of Warcho wal and ground water seepages were source of irrigation for Kharif paddy. NEERI report has suggested for rejuvenating of dug wells and has not considered drying of springs and seepages for irrigation.

The report of the WRD suggests that as a long term measure it is desirable to supply water for irrigating the fields and horticulture through Tilarri irrigation canal. Open type of bandharas required to be constructed for conservation of ground water across nallah (Warcho wal).

f. Efforts made by Government and Mining Companies

The WRD report states that PWD has commissioned a overhead tank for improvement in water supply. Water required for irrigation for some part of the agricultural fields is provided by the mining companies from the mining pit. Recharge ponds (percolation ponds) constructed and releasing of water into rivulet during 2009-10 has shown positive results in rejuvenation of dug wells.

The members perused the report of the WRD, considered the presentation made during the meeting made by the Sr. Hydrogeologist with maps and after detailed discussions decided to accept the report.

It was decided that directions should be issued to the three mining companies i.e M/s Dempo Mining Corporation, M/s Chowgule & Company Pvt. Ltd. and M/s Rajaram Bandekar (Sirigao) Mines, to implement the suggestions / recommendations made in the Report of the WRD at serial no. 8, (page no. 7).

It was also decided that the mining companies should submit design and drawings to the WRD and obtain their approval prior to execution of the works.

The Chairman and the members placed on record the appreciation towards the factual and impartial reports prepared by Shri N. Somasundaram, Sr.

Hydrogeologist, Water Resource Dept. and thanked him for the continuous assistance, efforts and expert advice he is providing to the Board from time and again. The Board also placed on record the efforts taken by the Water Resource Department in the matter.

e. Follow up action on the decision taken at the 97th meeting of the Goa State Pollution Control Board held on 07/05/2010

Agenda item no. 02 (a) – The members were informed that Mormugao Port Trust has submitted a feasibility report for mechanized handling of coal and coke as well as construction of closed shed at berth No 11 as per the recommendations made by NEERI in its report and the directions issued by the Board. The members were also informed that MPT has submitted an application to the Board for carrying out an Environmental Public hearing as recommended by the Ministry of Environment and Forest for their new project i.e West of break water. The members were further informed that the Environmental Public Hearing has not been scheduled as the MPT has not complied with the decision taken by the Board in its 97th meeting held on 07/05/2010 while discussing the proposed expansion projects of MPT. The Board in the 97th meeting has decided that MPT should carry out a comprehensive EIA Study for all the proposed project. However, Chairman informed the members that MPT has not submitted a comprehensive Environment Impact Assessment Report, which the Board had asked them to carry out and Environmental Public hearing has not been scheduled. The members noted the same.

The officials of the MPT were asked to give a detailed presentation on their new project as well as clarify regarding the feasibility report for proposed mechanization of coal and coke handling and construction of closed shed at berth No 11. The officials of MPT made a presentation highlighting the following points:

- a. Development of water front, West of break water of Mormugao Port.
 - i. MPT presently handles iron ore at berth no. 9, which is a dedicated iron ore handling berth. In addition, iron ore is also handled at mooring dolphins and at anchorage.
 - ii. The proposed development will be a dedicated iron ore handling facility. The said facility will cater to barge bound Goan iron ore and rail bound Karnataka ore. Presently the ore transported by rail from Karnataka is unloaded at Sanvordem.
 - iii. The commissioning of this facility is seen as an advantage as it will support round trip utilization of rail wagons for transportation of coal and coke to Karnataka and iron ore from Karnataka to Goa.
 - iv. The project will involve capital dredging and the dredged material will be utilized for land reclamation of about 1.40 lakhs sq. mtrs.

- b. Development of 4 MTPA coal /coke handling Port terminal at berth no. 11.
- i. As recommended by National Environmental Engineering Research Institute in their study, and as directed by the GSPCB, MPT proposes to develop mechanized coal and coke handling along with closed sheds at berth no. 11.
 - ii. The railway wagons bringing Karnataka ore for export at MPT will be available for carrying imported coal at berth nos. 5, 6, 7 allotted to private terminal operators as well as new mechanized berth no. 11.
 - iii. MPT proposes to construct two bulk material handling domes of 80,000 tons capacity each. In addition MPT proposes to have two more domes of capacity 1.60 lakh tons, considering that storage in each dome may be extended upto 20 days due to slow evacuation on account of limitations in rail connectivity.
 - iv. MPT proposes to install augers screw or continuous bucket type coal unloading equipment to maximize berth productivity and control dust generation.
 - v. Coal is proposed to be conveyed through fully enclosed continuous belt conveyors to the domes or the railway wagon loaders. Further, MPT proposes to install loading in motion wagon loaders to maintain continuous departure of loaded rakes.
 - vi. The proposed facility will also provided for transportation of coal by trucks
 - vii. Public private partnership thermal power generation projects are currently under development such as Udupi Power Corporation, Karnataka Power Corporation at Ediapur, Power Company of Karnataka Ltd at Kudigi, Coastal Karanataka Power Company at Kudgi or Mannur which would require imported coal.
 - viii. The proposed facility is expected to be commissioned in the year 2014.
- c. Development of berth no. 7 for handling 5.2 million tons of coal at MPT
- i. MPT has submitted an application for Consent to Establish for development of berth no. 7 for handling 5.2 million tons of coal.
 - ii. MPT had submitted an application for Environmental Clearance to the Ministry of Env. & Forests, Govt. of India. The said application has been recommended by the Expert Appraisal Committee. However, Environmental Clearance has not yet been granted to the said project.
 - iii. MPT has decided to develop berth no.7 in PP mode and has already handed over the berth to the concerned agency. The development work for berth no. 7 has commenced.
 - iv. The berth no. 7 will provide for transportation of coal to rail and by

trucks. About 1 million tons of coal from berth no. 7 would be transported by road to trucks. Presently berth no. 10 and 11 is handling about 1 million tons of coal and coke.

Shri Sanjit Rodrigues, Director of Industries, Trade and Commerce expressed that the MPT is carrying out peacemeal development of the projects and approaching the GSPCB for approval of individual projects. Further, he expressed that MPT has handed over berth no. 5A, 6A and berth no. 7 to private parties for handling of coal and coke. MPT now proposes to mechanize berth no. 11 which is located close to the city for handling of coal and coke. The proposed development west of breakwater is farthest from the City and it would be appropriate and ideal to handle dirty cargo (coal, coke etc.) as well as liquid bulk cargo comprising of petroleum oil and lubricants for prevention of pollution and safety aspect of the Vasco city. Shri Sanjit Rodrigues, Director of Industries Trade and Commerce expressed that the views of the State Government should have been sought by MPT before deciding and awarding the Berth No 5A, 6A, 7 etc for handling of coal and coke. He further sought from the MPT officials whether MPT has prepared a Master Plan for development of the port. MPT officials present for the meeting informed that a Consultant has been identified and the Master Plan is under preparation.

The members sought clarifications from MPT officials present for the meeting whether MPT could stop handling of coal and coke at Berth No 10 & 11 once the coal handling facility at berth No 7 is commissioned as the proposed facility would have arrangements to transport coal and coke by road through trucks. MPT officials present during the meeting clarified that such an commitment could not be given at this stage.

The members then expressed the following:-

1. MPT had earlier committed that once the mechanized coal loading berth facility at berth no. 5A and 6A is commissioned, handling of coal and coke at berth no. 10 and 11 would be stopped. However, coal and coke handling at berth 10 and 11 was continued with the pretext that berth no. 5A and 6A had no facility for loading of trucks.
2. While processing the application for Environmental Clearance for the proposed 5 MTPA coal handling facility at berth no. 7 of MPT, the Expert Appraisal Committee has noted in their minutes that shifting of coal and coke handling from berth no. 10 and 11 to berth no. 7 will free the Vasco city from dust pollution being experienced currently
3. It is also noted that page no. 2 -11 of the EIA report for berth no. 7, it has been stated that the Port is planning to *shift existing POL handling activities from berth no. 8 to berth no. 11, whereas MPT has now submitted a feasibility study for development of mechanized coal and coke handling activities at berth no. 11. It has been further stated in*

the said page that the Port is planning an iron ore berth at Vasco bay, whereas MPT has now submitted an application for development of a dedicated iron ore berth

4. MPT has commenced development of berth no. 7 prior to obtaining Environmental Clearance and Consent to Establish from the GSPCB.
5. It has been observed that the values of particulate matter and respirable particulate matter are exceeding the permissible limits in the Vasco City even after the short term measures suggested by NEERI have been complied by MPT.
6. During recent inspection it has been observed that some of the measures such as overloading of trucks, evacuation of cargo within specified time has not been complied by MPT.
7. MPT is not consistent with the commitments earlier made to various authorities in their communications, EIA study reports and applications.

Further, the members were of the opinion that directions should be issued to MPT to immediately stop the construction activity commenced at berth no. 7 until Environmental Clearance is obtained from the Ministry of Environment and Forests, approval from the Goa Coastal Zone Management Authority and Consent to Establish is obtained from the GSPCB.

The members also decided to issue show cause notice to the Mormugao Port Trust for non compliance in respect of the long term and short term measures recommended by NEERI and directions issued by the Board and install continuous ambient air quality monitoring stations for measurement of pm₁₀ and pm₂₅ to ascertain the air quality in Vasco town.

As the members were not satisfied with the presentation, they requested the Chairman to convene a Special Board meeting to exclusively discuss the issue of Mormugao Port Trust in detail, including the show cause notice to be issued by the Board, and that the officials of MPT should be invited along with their Legal Advisors to give a detailed presentation on their present facilities and their proposed facilities at the Port and the pollution measures undertaken by them along with the Master Plan for development of the Port. The members desired that the representatives of Confederation of Indian Industries, Member Secretary of the Goa Coastal Zone Management Authority, Deputy Collector (Mormugao) and other concerned officials should also be requested to make it convenient to attend the said meeting. The same was also agreed by the MPT representatives.

Agenda Item No 6:- Chairman informed the members that the Forest Dept. has commented on the clarifications sought by the Board on the representation received from the Goa Mineral Ore Exporters Association. It was also informed that the Forest Department has stated that as far as clearance under Forest Conservation Act is concerned, the provisions of Section 2 of the Forest

Conservation Act is attracted and the Environmental Clearance is invalid if the project proponent has not obtained the permissions from the Chief Wild Life Warden. Further, no reply is received from the Directorate of Mines and Geology.

Further, Chairman informed the members that the Hon. Minister for Power and Environment, Govt. of Goa has directed the Board to ensure that all mines operating in the State of Goa have their valid Consents to Operate under the Water Act and Air Act. Further the Hon. Minister for Environment, Govt. of Goa has also directed to dispose all pending applications after giving due notice of 30 days to the interested parties.

The members were further informed that the mining companies whose applications are pending with the Board for Consent to Establish / Consent to Operate/ Renewal of Consent to Operate have been issued show cause notices to appear before the Chairman of the Board for a hearing and accordingly the applications will either be placed before the Technical Advisory Committee of the Board and / or before the Board meeting for decision.

Chairman further informed the members that show cause notice / clarification letters have been issued to such mining units, directing them to submit the required permissions/ documents / clarifications within a due date, failing which the Board will proceed with action in accordance to law i.e refusal of Consent under the Section 25 (4) (b) under the Water Act and Section 21(4) of the Air Act.

After deliberations, the Board decided to call for a special meeting after receipt of all replies and the personal hearing to decide in the matter. It was also decided to request the Additional Principal Conservator of Forests, Dept. of Forests, Govt. of Goa to attend the meeting to assist the Board as in majority of cases, issue of clearance under the Forest Conservation Act and Chief Wild Life Warden permission is required.

AGENDA ITEM NO. 03

Adoption of the Audit Report for the financial year 2004-2005.

The members perused the Audit Report for the financial year 2004-2005 submitted by Govt. appointed auditor M/s Harite and Associates and thereafter passed the following resolution unanimously:

“RESOLVED THAT Receipts and Payments, Income and Expenditure Account and the Balance sheet together with notes thereon for the financial year ended on 31st March, 2005 be and are hereby approved.

RESOLVED FURTHER THAT the Chairman, the Member Secretary, the Accounts cum Administrative Officer and Accountant are hereby authorised to sign the Audited Annual Accounts of the Goa State Pollution Control Board jointly.”

AGENDA ITEM NO. 04

Representation received from the Goa Mineral Ore Exporters Association regarding Uniform procedure for assessing assets for land and Machinery.

The members perused the representation made by the Goa Mineral Ore Exporters Association in respect to the fees for Consent under the Water and Air Act based on the Gross fixed Assets (without appreciation or depreciation but including additional investments if made) considering the value of land, building, plant and machinery and other fixed assets.

After deliberations, the Board decided as follows:

- a. Agree for the recommendations made at serial no. 1 of the representation by the GMOEA i.e. plant and machinery used within the mining lease for mining operations, whether owned or hired should be included for the purpose of determining the value of assets. In the event the machinery is not owned by the lease holder, registered Valuers certificate should be obtained.
- b. Determine the land value on the principles of valuations.
- c. Agree for the recommendation made at Sr. no. 3 of the representation by the GMOEA i.e All the trucks owned by the Mining Company whether used inside or outside the mining lease to be included for evaluation and hired trucks operating outside the mining lease should be excluded. However, it was also decided to include the value of hired trucks operating within the mining lease for evaluation.
- d. Accordingly send letters to all the mining companies to submit the above details in an Affidavit, from the commencement of operations of their mine and also direct them to pay the relevant fees accordingly.

AGENDA ITEM NO. 05

Application of M/s GAIL (India) Ltd. for Consent to Establish under the Water and the Air Act, for the proposed 24” Gokak – Goa spurline of DBPL.

Chairman informed the members that M/s GAIL (India) Ltd. proposes to lay 24” Gokak – Goa spurline of DBPL, which will enter Goa at Maulinguem and pass through Amona, Khandola, Tivrem, Bhoma, Kundaim, Madkaim, Quelossim, Cortalim and will end at Sancoale. This natural gas is proposed to be provided to industry, as a fuel for vehicles and for domestic purpose and there will be a substantial reduction in environmental pollution.

The representatives of the project proponent submitted that the Environmental Clearance for the Karnataka – Dabol project has not yet been received by them. They also stated that the project has been notified and the Govt. of Goa has appointed a Land Acquisition Officer / Competent Authority in this regard.

The Director of Industries, Trade and Commerce and Member of the Board stated that the project has been approved in principle by the HPCC, but as the unit has to submit the finer details of the project, as regards to starting point and the end points, a map showing the tap points, so that the same could be planned in a technically feasible manner, the approval letter has not been issued.

The members also suggested that once the gas pipe line is commissioned, all the units operating on furnace oil should shift over to gas as a fuel in a phased manner within six months and that the resolution of the Board, to this effect be submitted to the Industries Department.

The members approved for grant of Consent to Establish, once HPCC Clearance is issued to the Project proponent in the same line that of Karnataka Pollution Control Board..

AGENDA ITEM NO. 06

Application of M/s Aventis Pharma Ltd. located at Plot no. L-121, Phase III, Verna Industrial Estate for Consent to Establish for their proposed expansion in the manufacturing capacity of pharmaceutical products.

The Chairman informed the members that the HPCC has cleared the proposal of M/s Aventis Pharma Ltd. in principle. The Director of Industries, Trade and Commerce and member of the Board informed the members that the HPCC has cleared the above proposal in its meetings, but with a condition that the unit make provisions for rain water harvesting and re-charging of wells, within their unit, so as to recharge the ground water aquifer, which has been depleted.

He also informed that the Industries Dept. in consultation with Water Resource Dept., Department of Science, Technology and Environment, Goa Industrial Development Corporation and Goa State Pollution Control Board has undertaken the Verna Industrial Estate for carrying out re-charge measures and rain water harvesting within the Verna Industrial Estate, by incurring an expenditure to the tune of Rs. 1.5 Crores. He also stated that works will also be carried out in other Industrial Estate, so as to mitigate the water problems. He also requested for assistance from the Industrial units in the Industrial Estates to contribute towards the programme carried out by the Dept. of Industries along

with Goa Industrial Development Corporation in rain water harvesting and re-charging of the aquifer.

The members suggested that the unit submit their plans for rain water harvesting and re-charge of wells along with designs to the Goa State Pollution Control Board / Directorate of Industries, Trade and Commerce, in order to scrutinize the same.

The members approved the proposal of M/s Aventis Pharma Ltd. located at Plot no. L-121, Phase III, Verna Industrial Estate for Consent to Establish for their proposed expansion in the manufacturing capacity of pharmaceutical products.

AGENDA ITEM NO. 07

Application of M/s Siemens Ltd., located at plot no. C-21, C-23, C-25 and C-26, Phase I-A, Verna Industrial Estate for Consent to Establish for the manufacture of primary GIS, secondary GIS compact sub-station.

The Chairman informed the members that the HPCC has cleared the proposal of M/s Siemens Ltd in principle. The Director of Industries, Trade and Commerce and member of the Board informed the members that the HPCC has cleared the above proposal in its meetings, but with a condition that the unit make provisions for rain water harvesting and re-charging of wells, within their unit, so as to recharge the ground water aquifer, which has been depleted.

He also informed that the Industries Dept. in consultation with Water Resource Dept., Department of Science, Technology and Environment, Goa Industrial Development Corporation and Goa State Pollution Control Board has undertaken the Verna Industrial Estate for carrying out re-charge measures and rain water harvesting within the Verna Industrial Estate, by incurring an expenditure to the tune of Rs. 1.5 Crores. He also stated that works will also be carried out in other Industrial Estate, so as to mitigate the water problems. He also requested for assistance from the Industrial units in the Industrial Estates to contribute towards the programme carried out by the Dept. of Industries along with Goa Industrial Development Corporation in rain water harvesting and re-charging of the aquifer.

The members suggested that the units submit their plans for rain water harvesting and re-charge of wells along with designs to the Goa State Pollution Control Board / Directorate of Industries, Trade and Commerce, in order to scrutinize the same.

The members approved the proposal of M/s Siemens Ltd., located at plot no. C-21, C-23, C-25 and C-26, Phase I-A, Verna Industrial Estate for Consent to

