
ALL ZONES

1. Edible oil industries located in Pantapalem (V), Muthukur (M), Nellore District.

The representatives of the Edible Oil industries have attended the legal hearing. The Committee noted the poor implementation of action plan submitted by the Krishnapatnam Edible Oil Refiners Association and non-compliance of Board directions. The representative of Edible Oil industries have informed that they have given a request letter to Chief Engineer, Telugu Ganga Project, Tirupati for permanent allocation of water from Survepalli Reservoir to their industries through pipe line. The approval is yet to be received. They have given work order to NEERI, Nagpur for carrying out feasibility report on common effluent treatment plant along with DPR. During the recent meeting with District Collector, Nellore, the Collector advised ZM, APIIC & MRO to identify the suitable land immediately and to submit the proposal for setting up of CETP on priority. Based on the Board’s recommendation, the APIIC Chairman had also directed ZM, APIIC, Nellore to takeup the issue of identification of suitable land for CETP on top priority.

It was also informed that allocation of abandoned mines to the association for disposal of fly ash and boiler ash is pending with Revenue Department. It was informed that the issue will be finalized by the end of this month. They informed that stack monitoring systems have been installed in all the Edible Oil industries located at Krishnapatnam Port area and yet to be connected to the APPCB website.

2. M/s. JSW Cement Limited, Bilakalaguduru & Bhujanar Villages, Gadivemula Mandal, Kurnool District.

The representative of the industry attended the legal hearing. The Committee noted the compliance of the CFO conditions/Directions. The representative of the industry informed that the plant was not in operation, because of rainy season and reaching full capacity of stock silos such as cement silos/clinker / coal stock and proposed to be re-commission in the month of October, 2016. They informed that closed sheds have already been provided for Laterite, gypsum and coal yards and they proposed to install fixed water sprinklers near excess stock pile of coal yards and lime stone stock pile and it will be completed by the 6 months.

They have provided water sprinkling system at coal conveyor and lime stone dumper hopper to avoid fugitive emissions. They have also provided rubber skirts on 3 sides at limestone dump hopper and on the front side of coal dump hopper to avoid dust particles being carried away. They informed that all bag houses are designed to control 10 mg/Nm³ dust emission at the design stage itself.

However, in the month of March 2016, few of the bags in Kiln/Raw mill and cooler bag house were found to have some fine holes in the bags and due to which, the emission levels slightly increased. It was informed that they have replaced bags which were damaged. They have conducted trials run for usage of Pet Coke in the place of coal and submitted the study report to Board in Dec’2015. They requested to accord permission for usage of pet coke as a alternate fuel. They have also conducted trails for Carbon Black and PPF in the kiln. They are planning to conduct trails for rice husk, saw dust and pharmacy waste etc. based on availability.

Recommendations:

The Committee after detailed discussions, recommended to issue the following directions:

1. The industry shall improve dust containment measures during unloading of dumpers near coal yard, lime stone stock pile & other raw materials.
2. The industry shall cover tarpaulins for storage of excess coal in full shape. Meanwhile the industry shall provide water sprinkling system and both sides near coal yard and lime stone stock pile to avoid fugitive emissions.
3. The industry shall achieve emission standard of 30 mg/Nm³ from 01.06.2016 as per the MoEF Notification dated 25.08.2014. Thus, the industry may be reviewed the plan of action to achieve the prescribed emission standard of 30 mg/Nm³.
4. The industry shall start reprocessing of Hazardous waste such organic residue,
spent solvent as permitted by the duly obtaining permission from the Board.
5. The industry shall immediately plug the leakages at clinker bin, packing section and internal roads to prevent cement dust emissions, potential to get air borne and result in fugitive emissions.


The representatives of the industry attended the legal hearing. The Committee noted the non-compliance of the CFO conditions/Directions. The representative of the industry informed that they have applied for CFO renewal. They have removed malfunctioning flow meter with fresh flow meter for measuring effluent quantity. The industry started Multiple Effect Evaporator and submitted MEE running details. It was informed that they are in the process of obtaining Membership from TSDF, Parawada for disposal of MEE salts. It was also informed that RO installation completed and now ready to start.

Recommendations:

The Committee after detailed discussions recommended to issue the following directions:

1. The industry shall obtain Consent for Operation order of the Board immediately.
2. The industry shall take TSDF membership within 1 month and start transporting the hazardous waste such as MEE and ATFD salts, inorganic waste etc. for disposal.
3. The industry shall send stripper condensate to TSDF/Cement plants for co-processing.
4. The industry shall send Condensate from MEE & ATFD to biological ETP followed by RO system.

4. M/s. Capricorn Food Products India Limited, (Unit – I & Unit – II) Palagunta (V), Satyavedu (M), Chittoor District.

The representatives of the industry attended the legal hearing. The Committee noted discharge of trade effluents and dumping of solid waste by the industry on the open lands and into open channel of Pondavakkam (V), Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu and non-compliance of the CFO conditions/Directions and the extent of air pollution caused by the industry.

The representative of the industry informed that the industry is seasonal and they are running the industry at an average of 55-60 days and the trade effluent generation is not more than 65%-70% of the consented capacity during such season and almost Nil for another 10 months rest of the year. They have constructed the ETP, as per the required capacity and directions of Board, and fully operational with required treatment attributes of the treated effluents.
Correspondingly during the visit, the industry was not in operation indeed and there were no effluent generation or any input in the ETP has been in vogue. They have paid CFO fees and applied the CFO of Board. They have installed a water meter at the Outlet of the ETP and they will provide water meter at the inlet of ETP before the start of next season. They will dispose the plastic waste to the concerned authorized recycler. They will develop the green belt and they will take all pollution control measures issued by the Board.

They have informed that the unlined lagoons are using for storage of rain water and reused for gardening purpose. They have also informed that they have provided for 12 TPH Boiler and requested not to insist for installation of bag filters.

Recommendations:

The Committee after detailed discussions recommended to issue the following directions:

1. The industry shall obtain the validity Consent for Operation immediately.
2. The industry shall upgrade the ETP with UASB reactor within 6 months.
3. The industry shall install water meters at inlet and outlet of ETP within 1 month.
4. The industry shall install separate energy meters to the ETP within 1 month.
5. The industry shall dispose the solid waste (mango stone & peels) in a scientific manner.
6. The industry shall not discharge treat effluents or untreated effluents into the outside the
industry premises.
7. The industry shall develop proper irrigation network to utilize the treated effluent for land application after meeting the standards within their own lands.
8. The industry shall abandon all the unlined lagoons existing within the premises.
9. The industry shall upgrade the air pollution control equipment attached to the 12 TPH within six months.
10. The industry shall submit a Bank Guarantee of Rs.1.0 Lakh with a validity period of one year towards implementation of air and water pollution control measures and installation of flow meters.
11. The industry shall ensure the validity CFO of the Board and ensure continuous compliance of the conditions issued by the Board.


The representatives of the industry attended the legal hearing. The Committee noted that the non-compliance of the CFO conditions/Directions. The representative of industry informed that they are proposing up gradation of CETP by installing of MEE and spray drier as part of making Zero Liquid Discharge. At present they are disposing the effluent through forced evaporation. The CETP member units will contribute 10% of the estimated cost and requesting financial assistance for the remaining amount under Centrally Sponsored Schemes.

The Committee informed that the Board will contribute 25% of the estimated cost for construction of CETP and Government of India will contribute 25% of the estimated cost for construction of CETP and remaining 50% shall be borne by the promoters of CETP. The representative of industry informed that the jewelry park consists of 50 No.s of units and so far 30 nos of units have tied up with CETP. No boiler was installed in CETP premises.

Recommendations:
The Committee after detailed discussions recommended to issue with following direction:

1. The CETP shall provide MEE & Spray drier for disposal of treated effluent within 6 months.
2. The CETP shall provide piezometric wells in and around the CETP premises in consultation with RO, Vijayawada to monitor ground water quality.
3. The industry shall not cause ground water pollution in and around the industry premises.
4. The industry shall ensure that no nuisance is caused to the surrounding environment.
5. The industry shall develop the thick green belt along the boundary of the industry and at all possible vacant areas.
6. The industry shall ensure continuous compliance of the CFO and Hazardous Waste Authorization conditions issued by the Board*.


The representatives of the industry attended the legal hearing. The Committee noted that the non-compliance of the CFO conditions/Directions issued by the Board. The representative of industry informed that they have provided water meters for process, washing, boiler and cooling purposes and also provided flow meters at the FE condenser outlet and maintaining the records. They installed web camera at FE feed point & Digital flow meter and connected to CPCB. It was also informed that they provided two stage scrubber provided with online pH meter. They will develop the green belt coming monsoon season.

Recommendations:
The Committee after detailed discussions recommended to issue the following directions:

1. The industry shall provide magnetic flow meter with totalizer before Forced Evaporation System to measure the quantity of waste water sending to the FE system.
2. The industry shall provide magnetic flow meter with totalizer to record steam...
3. The industry shall not store hazardous waste on open ground. The hazardous waste, spent solvents, mixed spent solvents etc. shall be stored in a shed on elevated platform with leachate collection system as per authorization under HWM Rules issued by the Board.

4. The industry shall develop greenbelt in all vacant places in the coming monsoon.

5. The industry shall ensure continuous compliance of the CFO and Hazardous Waste Authorization conditions issued by the Board.

7. **M/s. Visakhapatnam Port Trust, Port Area, Visakhapatnam.**

   The representatives of the industry attended the legal hearing. The committee noted the non-compliance of CFO order conditions and the directions of the Board. The committee discussed issues relating to covering of all stock yards of dusty cargos with tarpaulin, action plan for reorganization of coal stacking yards which are nearer to the city and re-furbishing of all the existing mechanical dust suppression systems.

   The industry has informed that handles coal and other cargos at three major areas i.e. at S4 area (1.50 Lakh sq.m.), West Ore berth (2.35 lakh sq.m) and S6 area i.e R4/R10 areas (1.72 lakh sq.m). Except while handling coal most of the time all the coal stock yards are fully covered with tarpaulins. Present they have covered 80% of stock yards of dusty cargos with tarpaulins. The representative of the industry informed that the port is not storing fresh dusty cargo at S6 stacking yard. The present coal cargo is being removed in phases. In order to divert the traffic going on to the B ramp through the truck tyre washing facility manpower is deployed in shifts on 24×7 basis.

   Further, there is a proposal to provide a gate similar to one being operated at railway level crossing for regulating the traffic on B ramp at truck tyre washing facility. It was also informed that on an average about 220 to 250 trips per day of sprinkling on roads with lorry tankers are operated. They informed that installation of new / refurbishing the existing Mechanical Dust Suppression (MDSS) work was complete by end of April 2016. However, during operations certain sprinklers are getting damaged and are being attended regularly, which is a continuous process. They have installed CC cameras at 24 places in port operational area and all of them are in working condition under the control of command control center. Finally, the management informed that they will take all the pollution control measures to comply with the directions issued by the Board.

8. **M/s. Glochem Industries Ltd., S.No: 36, 37 & 46, Plot No: 77, JN Pharmacy, Thanam (V), Parawada (M), Visakhapatnam.**

   The representatives of the industry attended the legal hearing. The Committee noted the non-compliance of the CFO conditions/directions by the industry. The representative of industry informed that they have manufactured the product viz. Iproniazid phosphate and Armodafinol on trial basis under R&D Products the expenditure of the trial has borne by the customer and according to customers demand they have sent them the product as a sample for getting further orders if it meets their product quality standards. Meanwhile they have taken CFE order of the Board and applied for CFO on 09.08.2016. It was committed that they will manufacture the un consented products only after obtaining CFO order of the Board. It was also informed that they have started the construction of new distillation column for recovery of solvents and expected to be completed by the end of May, 2017.

   It was also informed that they will relocate the web cameras as per the suggestions of the Board officials by the end of October 2016. They informed that the Raloxifine Hydrochloride is used to treat osteoporosis in postmenopausal women and breast cancer. Mercaptans are not generated during the production of Raloxifine Hydrochloride. N Propyl Mercaptan is consumed as a raw material. N Propyl mercaptan is a liquid, managing this material is very easy. N Propyl mercaptan is almost consumed entirely in the process. If there is any left out raw material, which is treated with hydrogen peroxide with 100% assured odor control. It was assured that they have taken a lot of care for ensuring that Mercaptan odor do not be caused any nuisance to surrounding village.

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**MEMBER SECRETARY**
Recommendations:

The Committee after detailed discussions recommended to direct RO, Visakhapatnam to verify how the industry is handling the Mercaptans and hazardous liquid chemicals at production block and submit the report so as to review in the next TF meeting.


The representatives of the industry attended the legal hearing. The committee noted that there are so many complaints are being lodged by the public regarding smell nuisance and the non-compliance of CFO order conditions and the directions of the Board. The representative of the industry informed that flare stacks are adequately designed. They informed odour in ETPs can be due to the aerobic reactions occurring in the bio-reactor, which plays a major role in treatment of the effluents towards reducing the pollutants.

However, it is to be noted that such odour is localized and there is absolutely no chance for any odourous compounds getting carried over beyond the refinery boundary. It was also informed that they are constructing STP for treatment of domestic effluents, which will be completed by March 2017. They informed that the fuels used in the refinery are Low Sulphur Heavy Stock (LSSH), desulphurized Fuel Gas and Naphtha. Dedicated storage tanks are available for the low Sulphur liquid fuels from where fuel will be supplied to all furnaces/boilers. The fuel quantity as well as quality from the dedicated tanks are monitored and controlled. Emissions from the refinery are regularly being monitored and are within the stipulated limits. They informed that FGD-I & FGD-II have been commissioned and they are in continuous operation. The SPM emissions from the refinery are within the stipulated limits. They will develop the green belt by end of this year and finally the management will take up the all pollution control measures so as to comply with Board directions.

The Committee recommended to direct the industry to monitor the additional parameters viz., Benzene, Toluene & Xylene in the CAAQM Stations.

Recommendations:

The Committee after detailed discussions recommended to issue the following directions:

1. The industry shall construct STP for treatment of domestic effluents within 4 months.
2. The industry shall explore the possibility of using treated sewage water from nearest GVMC STP for the reduction of fresh water consumption.
3. The industry shall explore the possibility of using low sulphur fuels for heating purposes.
4. The industry shall monitor the additional parameters viz., Benzene, Toluene & Xylene in the CAAQM Stations.
5. The industry shall develop the thick green belt around the boundary of the factory premises.
6. The flare stack shall be improved to flare off all hydrocarbons duly ensuring complete combustion without black smoke.
7. The industry shall ensure the validity CFO of the Board and ensure continuous compliance of the conditions issued by the Board.
8. The industry shall comply with the green Visaka targets.
9. The industry shall Take Necessary measures for control of smell nuisance.


The representative of the industry has attend the legal hearing. The committee noted that the non-compliance of CFO order conditions and the directions of the Board. The representative of the industry informed that online stack monitoring systems and CAAQM stations are connected to APPCB website and posting of data is continuously done. In case data is not displayed due to connectivity/network problems, the same is being attended and rectification on continuous basis. They have installed online effluent monitoring systems and communicated to Board for
providing facility in their website for posting of data from the online effluent monitoring systems to their website. Once the Board provides the facility industry post the data from the online effluent monitoring systems to Board website. The same has been communicated to NIC also, response awaited.

They have informed that industry is taking all measures to recycle LD slag in it process. Efforts made in the direction have resulted in utilization of about 33-35% of the LD slag internally. Utilization beyond this is technically not becoming feasible. It was also informed that installation of dog house/secondary de-dusting facilities is under progress. The Converter-A of steel Melting Shop-1 was revamped in Mar’16, has been provided with Dog House. Revamping of Converter-C is in progress and schedule for completion in Nov’2016 along with Dog House. Dog House in Converter B is scheduled during its revamping in 2017.

They informed that Revamping of ESPs of Thermal Power Plant are planned for completion by March’2019 to bring down the emission levels and Revamping of ESPs of sinter plant are planner for completion by August’2018 to bring down the emission levels. They informed Revamping of CRMP bag filter for completion by March’2017 and BF-1 burden handling system is revamped and emissions are always below norm of 50MG/Nm³. It was also informed that the Oil Reclamation Unit (ORU) is already upgraded with MMPX-404 oil purification system for removal of water from 2% level to less than 0.1% and removal of sediments<2% other facilities such as used oil settling tanks, concrete platform, dyke wall and collection pit are provided to prevent oil spillage and leaks and maintaining records. They informed that 2,63,800 plants have been planted, balance Plantation in progress.

Recommendations:

The Committee after detailed discussions recommended to issue the following directions:

1. The industry shall carry out Bio-Assay test in “online bio-assay testing facility” by providing 4 guard ponds each of two days hydraulic load capacity so as to receive the treated effluents in guard ponds before disposal. Only three guard ponds shall be operational at a time and one will be kept empty as reserve to store the effluents in case effluents fail in bio monitoring. The guard pond shall have appropriate lining and leak-proof construction specified for this purpose. The industry shall submit Bio-Assay test reports and impact on the marine life to the Regional Office, Visakhapatnam on monthly basis.

2. The industry shall maintain digital display at the main gate for displaying the CAAQM and stack analyzers results.


4. The industry shall comply with the time limits mentioned in the pie chart submitted to the Board vide dated, for Up-gradation of the air pollution control equipment to meet to the board specified standards.

5. The industry shall ensure the continuous compliance of the CFO & HW Authorization conditions issued by the Board.

The representative of the industry has not attended the legal hearing. The committee noted that the industry is not in operation since February 2012 and observed that non-compliance of Board directions. The representative of industry informed that active landfill area of the SLF is covered with HDPE sheet. They informed that they have treated the entire rain water stagnated in the secured landfill (SLF-II) in ETP. It was also informed that they submitted the details of stagnated water treated in ETP and hazardous waste disposed in SLF every month to the RO, Visakhapatnam. It was also informed that dismantling of main plant will be completed by the end of December, 2016 and from January, 2017 onwards the industry will takeup the closure of scientific landfill.

Recommendations:

The Committee after detailed discussions recommended to issue the following directions:

1. The industry shall submit the closure plan of scientific landfill within 15 days time to the Board for further approval of the plan.
2. The industry shall submit an action plan post closure monitoring of the SLF within one month.


The representatives of the industry attended the legal hearing. The committee noted that the industry is not in operation since March 2013 and revamping works of the machinery is going on. The representative of the industry informed that they are not discharging any effluent into nearby agriculture lands or any water body. It was informed that the industry is having full pledged ZLD system and the industry is committed to operate the ZLD system. The condensate from MEE is being send to Cooling towers for makeup. They informed that the trails operations for the machinery and the ETP works are under progress. They provided the digital flow meter to record the quantity of MEE condensate generated and reused and Dyke wall was constructed in 3 sides at the decanter. The fourth side is proposed to be kept open to facilitate the handling of sludge. It was also informed that they have complied all the directions issued by the Board and finally the management is requested to issue 100% consent capacity.

Recommendations:

The Committee, after detailed discussions, recommended to issue the following directions:

1. The industry is permitted to take up 100% of the consented production.
2. The industry shall operate ZLD system continuously and shall not discharge any type of effluents outside the factory premises.
3. The industry shall remove all sorts of arrangements to route the effluent to the storm water drains.
4. The industry shall remove all the temporary pipe lines and shall establish permanent above ground level piping system in the ETP area duly demarcating the route.
5. The industry shall ensure the continuous compliance of the CFO & HW Authorisation conditions.


The representatives of the industry attended the legal hearing. The committee noted the non-compliance of the CFO conditions/directions issued by the Board. The representative of the industry explained the measures taken for collection, handling and scientific disposal of Bio-medical waste received at their unit.

They informed that the construction of separate room/space for treatment equipment such as incinerator, autoclave and shredder for treatment of bio-medical waste will be completed by end of this month. They install online monitoring system and connected to website will be completed by the end of this month. It was also informed that they install devices for measuring negative
draft in primary chamber, air flow rate in the incinerator chamber and pressure drop across the scrubber will be completed by the one month.

They informed that they will provide Personal Protective equipment (PPEs) to the workers handling bio-medical waste. They informed that the web cameras are not provided because of power supply is not available in the plant. The Committee recommended to provide web cameras, as per CPCB directions. Finally the management informed that they will comply the all the directions issued by the Board.

Recommendations:

The Committee, after detailed discussions, recommended to issue the following directions:

1. The Facility shall not collect un-segregated Bio Medical Waste from the HCEs. The facility shall furnish the list of HCEs which are not segregating the bio-medical waste to RO, Kakinada for further necessary action.

2. The facility shall charge the waste only after attaining the required temperatures in the primary and secondary chambers during the beginning of the operation of incinerator and the required temperatures shall be maintained in the chambers during operation.

3. The facility shall provide computer recording devices which will automatically and continuously monitor to record dates, time of day, and operating parameters such as temperature and pressure throughout the entire length of the autoclave cycle and incineration. The facility shall carry out validation test of autoclave.

4. The facility shall construct Separate room / space for treatment equipment such as incinerator, autoclave and shredder for treatment of bio-medical waste within 1 month.

5. The facility shall connect and operate the online monitoring system for stack emission of bio-medical waste incinerator within 1 month.

6. The facility shall provide connectivity for three surveillance cameras as per the BMW guidelines (3 Nos. i.e., one each at incinerator, autoclave / shredding and vehicle unloading) within 1 month.

7. The facility shall connect the flue gas analyzer for measurement of CO, O₂ & CO₂ level in the stack gases.

8. The facility has to install Devices for measuring negative draft in primary chamber, air flow rate in the incinerator chamber and pressure drop across incinerator / scrubber as per CPCB guideline.

9. The facility shall provide Personal protective equipment (PPEs) to the workers handling biomedical waste handling workers.

10. The facility shall provide Sign boards at the entrance indicating contact person, telephone and display boards with bio-hazard symbol (as per BMW Rules).

11. The facility shall maintain records of log book of incinerator/autoclave/shredder, Daily diesel consumption, Log books of vehicles, Manifest copies and Daily register of BMW collected from HCEs (HCE wise) and route wise collection.

12. The facility shall inform Regional Officer of all the HCEs that are not segregating the Bio Medical Waste.

14. Used Oil / Waste Oil reprocessing units located in East Godavari and Visakhapatnam Districts

The representatives of the industries attended the legal hearing. The committee noted all industries are not treating the waste water and not provide the air pollution control equipment to the thermic fluid heater the non-compliance of the CFO conditions/Directions and extent of water pollution caused by the industry to the surrounding area. The representative of the industries informed that they will take all pollution control measures issued by the Board and submitted the commitment letter for all directions will be completed by end of November 2016.

Recommendations:
The Committee, after detailed discussions, recommended to issue the following directions:

1. All industries shall operate the Effluent Treatment Plant continuously and meet the Board's standards.

2. All industries shall submit the annual returns in Form-IV to the Board.

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MEMBER SECRETARY
3. All industries shall file the water cess returns immediately to the Board.
4. All industries shall provide dyke walls around the storage area of waste oil/used oil within 2 months.
5. All industries shall provide air pollution control equipment to the thermic fluid heater within 2 months.
6. All industries shall maintain good housekeeping within the plant premises.
7. All industries shall develop the 33% of the green belt within the plant premises.
8. All the industries shall store the raw material drums on a raised concrete platform along with leachate collection system.
9. All the industries shall make an entry of purchase of waste oil/used oil in the Registration pass books and submit the records to the concerned Regional Office.

The Committee recommended to direct EE, RO, Kakinada and EE, RO, Visakhapatnam to inspect waste oil / used oil reprocessing industries for implementation of above directions and carryout stack monitoring, ambient air quality monitoring and effluent monitoring and submit industry wise detailed report for next legal hearing.


The representatives of the industry attended the legal hearing. The committee noted the non-compliance of the CFO conditions/Directions issued by the Board. The representative of the industry informed that truck tyre washing is ensured for all out-going cargo vehicles. They informed that the CAAQM station is not required because of the terminal is located inside the M/s. Visakhapatnam Port Trust premises and M/s. Visakhapatnam Port Trust has already installed CAAQM station very near to the terminal. Finally the management informed that the Green Belt is being maintained along the boundary and additional plantation also being carried out near Kotaveedhi village. New saplings plantation has been taken up on west side of our terminal and will be completed by 30th October 2016.

Recommendations:

1. The port shall not store the stacking height of Coking coal and steam coal more than 10 meters under any circumstance.
2. The port shall operate MDSS systems every one hour to control the dust emissions and shall maintain log records.
3. The port shall cover all the coal cargo stacks with tarpaulins.
4. The operation shall not cause any air pollution problems to the surroundings.
5. The port shall operate water sprinklers at coal yards & other dusty cargo yards adequately to maintain wet condition in coal yard.
6. The port shall develop the green belt within 2 months.
7. The port shall ensure the continuous compliance of the CFO & HW Authorization conditions issued by the Board vide order dt. 04.12.2017.

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MEMBER SECRETARY