



F. No. 10-10/2014-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 1st August, 2017

To,

Shri B.D.Dalwadi,
Chief Executive Officer,
M/s Bharuch Enviro Infrastructure Limited,
Plot # 9701-9716, GIDC Industrial Estate,
Ankleshwar District Bharuch,
Gujarat - 393 002
E-mail: dalwadibd@uniphos.com

Subject: Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot No. 9601-9604, 10001-10003, G-7 & 8, 7924-7927, 9401-9412, 9501-9506, 7905 E to H adjoining Gujarat Industrial Development Corporation (GIDC) Industrial Estate, Ankaleshwar, District Bharuch by M/s Bharuch Enviro Infrastructure Limited - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No. IA/GJ/MIS/42857/2016 dated 24th March 2017, submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project 'Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot No. 9601-9604, 10001-10003, G-7 & 8, 7924-7927, 9401-9412, 9501-9506, 7905 E to H adjoining Gujarat Industrial Development Corporation (GIDC) Industrial Estate, Ankaleshwar, District Bharuch promoted by M/s Bharuch Enviro Infrastructure Limited' was considered by the Expert Appraisal Committee (Infra-2) in its meetings held on 25th-27th May, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting, are under:-

- (i). The present proposal is for the enhancement in capacity of incinerator with thermal capacity of 12 million kcal/hour. Such change in configuration of phase-II incinerator from one of 25 million kcal/hour capacity as per the EC of Phase-II.
- (ii). The proposed enhancement of capacity change in configuration of incinerator project falls under Category "A" as per EIA Notification 2006. The Project is of activity 7(d) listed in EIA Notification dated 14th September, 2006, under Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF).
- (iii). The project was considered by the Expert Appraisal Committee (Infra-2) in its 3rd Meeting on dated 23rd Feb 2016. Accordingly TOR was approved vide letter no.10-10/2014-IA.III dated 26th March, 2016. Public hearing was

[Signature]

exempted as per para 7(i) III Stage (3)(i)(b) of EIA Notification, 2006 for preparation of EIA/EMP Report, being site is located in the Notified GIDC industrial area, Ankleshwar.

- (iv). Power Demand: Existing power consumption is 1700 KVA & Proposed requirement 500KVA additional Source from Dakshin Gujarat Vin Co Ltd (DGVCL). In case of power failure-2 DG Sets (975 KVA capacity each) & 1 D.G. set (600 KVA).
- (v). Fuel-Natural Gas @ 300 m³/hrs to be sourced from Gujarat Gas Ltd.
- (vi). Water-Maximum water consumption will be 690 KLD one time and 445 KLD for industrial and domestic purpose that is available from GIDC supply.
- (vii). Cost of the project is Rs. 32.00 crore.
- (viii). Man Power-During Construction phase, the labors and workers will be hired from nearby areas. Construction phase: 100 workman, operation phase: 30 workman.
- (ix). Green belt is developed in total 50514.29 sqm (length: 3024 mtrs and average 15 mtrs. Width, and around 5000 (250 length x 20 width) sqm Near Phase-III) to mitigate the impacts on the overall air quality at the site.
- (x). Benefit of the Project: Positive impact on environment in terms of better management of hazardous waste in the region. More employment opportunities will be created. Aesthetics of the area will improve.

3. The EAC, in its meeting held on 25th-27th May, 2017, after detailed deliberations on the proposal, has recommended for grant of Environmental Clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project Affordable Housing Project 'Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDF) at plot No. 9601-9604, 10001-10003, G-7 & 8, 7924-7927, 9401-9412, 9501-9506, 7905 E to H adjoining Gujarat Industrial Development Corporation (GIDC) Industrial Estate, Ankaleshwar, District Bharuch propomted by M/s Bharuch Enviro Infrastructure Limited, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

PART A – SPECIFIC CONDITIONS:

- (i) The emission standards prescribed by the MoEF&CC under Environment (Protection) Act for incinerator, lead recovery unit, e-waste, solvent recycling, used oil recycling unit etc shall be strictly followed. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.
- (ii) Air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bagfilter/ESP for removal of particulate matter; ventury scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over shall be provided to the incinerator. Online pollutant

- monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO₂, NO_x and CO from the incinerator stack. The periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out.
- (iii) As proposed, scrubber shall be provided to the oil fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/GPCB guidelines.
 - (iv) Bagfilter shall be provided at Crushing, Dismantling, Shredding, Separation units of the e-waste management facility.
 - (v) Multi cyclone, bagfilter followed by scrubber along with stack of adequate height shall be provided to Smelting (in Rotary Furnace) and Refining (in Refining Pot) to control process emissions.
 - (vi) Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.
 - (vii) Sufficient number of Piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with the State Pollution Control Board / CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the Regional Office of MoEF&CC.
 - (viii) Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.
 - (ix) The depth of the land fill site shall be decided based on the ground water table at the site.
 - (x) Environmental Monitoring Programme shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out. Regular monitoring of Volatile Organic Compounds (VOCs) should be carried out.
 - (xi) All the solvent storage tanks should be connected with vent condensers with chilled brine circulation.
 - (xii) The Company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
 - (xiii) Total fresh water requirement from GIDC should not exceed 445 KLD.
 - (xiv) All leachates arising from premises should be incineration/ Forced evaporation/spraying on landfill.
 - (xv) MEE residue should be sent to the incinerator and condensate to the CETP for final treatment. The CETP's should have consent of the Board to treat such effluents.
 - (xvi) Effluent shall be treated in the effluent treatment plant followed by RO to achieve zero liquid discharge. Treated effluent shall be recycled/reused for cooling tower make up, plantation and landfill. No effluent shall be discharged outside the plant premises.

- (xvii) The primary treated effluents shall be sent for final treatment to authorized vendors/CETP's only with consent of the Board also to treat effluents from the project.
- (xviii) Real Time Automatic Monitoring facilities should be installed on the stack and on the outlet of the treatment plant as per the guidelines of the Central Pollution Control Board.
- (xix) Ensure compliance to the *Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016* and guidelines developed by the CPCB.
- (xx) No non hazardous wastes, as defined under the *Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016* shall be handled in the premises. Hazardous waste shall be sent to an authorized vendor only.
- (xxi) Preparation of Alternate Fuel and Raw material for co-processing should be strictly as per the directives as under the *HWM Rules, 2016* and the Central Pollution Control Board after trial runs as prescribed.
- (xxii) Gas generated in the Land fill should be properly collected, monitored and flared.
- (xxiii) Project Proponent shall develop green belt, as committed. At least 15 m thick greenbelt shall be developed in the periphery of hazardous waste facility.
- (xxiv) Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the Authorization under the *Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016* prevent unwanted access.
- (xxv) Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water.
- (xxvi) Rain water runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant.
- (xxvii) Pre medical check-up to be carried out on workers at the time of employment and regular medical record to be maintained.

PART B - GENERAL CONDITIONS

- (i) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) The project proponent should set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (iii) The project proponent should extend full support to the officers of this Ministry / Regional Office during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.

- (iv) The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- (v) In the event of a change in project profile or change in the implementation agency, a fresh clearance shall be obtained from the Ministry of Environment, Forest & Climate Change.
- (vi) A copy of the clearance letter will be marked to concerned Panchayat local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.
- (vii) The environmental safeguards contained In the EIA Report should be implemented in letter and spirit.
- (viii) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsi1dar's office for 30 days.
- (ix) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.

4. The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made thereafter.

5. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

6. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.

7. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.

8. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

9. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad, Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
11. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.
12. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.
13. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Office of MoEF&CC by e-mail.
14. This issues with the prior approval of the Competent Authority.


(Kushal Vashist)
Director

Copy to:

- 1) Secretary to Government (Environment and Ecology), Forest, Forests & Environment Department, Government of Gujarat Block 14, 8th floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.
- 2) Addl. Principal Chief Conservator of Forests (Central) Ministry of Environment, Forest and Climate Change, Regional Office (WZ) E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3 Ravishankar Nagar, Bhopal- 462016.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010, Gujarat.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.


(Kushal Vashist)
Director