

F.No.10-7/2013-IA.III
Government of India
Ministry of Environment, Forest & Climate Change
(IA-III Section)

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

Dated: 15th July, 2015

To

The National Head (IWM & BMW),
M/s Ramky Enviro Engineers Ltd.,
Door No. 6-3-1090, 4th Floor TSR Towers,
Above Standard Chartered Bank,
Rajabhawan Road, Somajiguda,
Hyderabad -82

Sub: Integrated Common Hazardous Waste Treatment, Storage, Disposal and Recycling facilities at Saltora, Bankura District (West Bengal) by M/s Ramky Enviro Engineers Ltd. - Environmental Clearance - Reg.

Sir,

This is with reference to your application dated 25.02.2015 submitting the above mentioned proposal to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment Notification (EIA), 2006 under the Environment (Protection), Act, 1986.

2. The proposal for **Integrated Common Hazardous Waste Treatment, Storage, Disposal and Recycling facilities at Saltora, Bankura District (West Bengal) by M/s West Bengal Waste Management Limited (A Division of M/s Ramky Enviro Engineers Ltd.)**, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/Construction and Miscellaneous projects, in its 147th meeting held on 23rd - 24th April, 2015.

3. The details of the project, as per the documents submitted by the Project Proponents (PP), and also as informed during the above said EAC meeting, are reported to be as under:-

- i. The project was accorded TOR vide letter no. F.No.10-7/2013-IA.III dated 02.12.2013.
- ii. The present proposal involves development of Integrated Common Waste Management and Recycling Facilities have waste disposals/recycling or recovery facilities such as Hazardous Waste, E-Waste Recycling Facility, Bio-medical waste disposal Facility, Alternative Fuel Recovery & Recycling Facilities. In addition to the above, there shall be temporary and long term storages for interim storage and for intractable/in-compatible wastes respectively.
- iii. The proposed project is located at Survey Numbers Mouza Pabayan, J 1 No 80, Mouza - Ranjitpur, JL No. 79, Plot No. 453, Saltora Tehsil, Bankura District, West Bengal. The project is establishing on the barren land with 50 Acres, and it is well connected to Ranigunj Railway station situated at a distance of 17 Km East from the site and connects to Saltora - Mejia Road NH-60 around 12 Km East from site.

- iv. The proposed project is the new project to treat and dispose the hazardous waste, bio medical waste, E-waste, Spent solvent and other miscellaneous waste generated in the state of West Bengal, and the project is bound to design on the guidelines provided by GoI which includes;
- a. The Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 and its subsequent amendments.
 - b. The Bio-Medical Waste (Management & Handling) Rules, 1998 and subsequent amendments.
 - c. The Plastic Waste (Management & Handling) Rules, 2011 and subsequent amendments.
 - d. E-Waste (Management & Handling) Rules, 2011 and subsequent amendments.
 - e. Battery management and handling rules 2001 and subsequent amendments.
- v. The total water requirement for the facility is 423 KLD which will be drawn from groundwater. Necessary clearance will be taken from the concerned authorities after obtaining EC. Necessary rainwater collection tanks, harvesting structures and storm water drains will be provided to minimize the impacts on groundwater.
- vi. It is estimated that the wastewater generation (3 phases) will be 80.5 KLD, from various stages of the operation and most of the wastewater is treated and recycled to minimise the usage of groundwater. Entire wastewater will be treated and reused for various activities such as, vehicle tyre washing, dust suppression on roads, landfill, greenbelt development, etc.
- vii. The ash coming from incineration plant and power plant will be used as daily cover in secured landfill, the sludge generated in the leachate pond/ solar pond will be sent to secured land fill.
- viii. As this is hazardous waste management project, it is proposed to setup a solar power of 2 MW and waste to energy of 2 MW power plants. Energy conservation measures such as use of CFL/LED lights, solar panels for street lighting are proposed
- ix. A greenbelt of 15 m wide will be provided along the boundary of the project, overall 33% of the total area will be developed as greenbelt (open areas, along the roads, road junctions).
- x. There will not be any tree cutting in the proposed site, but some bushes are cleared for the development of the site.
- xi. **Water bodies:** River Damodar located at a distance of 9.6 Km North from Site, and some water bodies located near the site and mostly used for the domestic purpose like cattle washing and washing clothes. Nearest water body is at a distance of 2.5 Km near the village Goradihi SE and other water body located at 3.2 Km near the village Chak Paruri E. There is no significant impact on the drainage system near the site as Zero discharge concept is followed.
- xii. **Parking facility** will be provided for employees near the main entrance, trucks carrying waste will be kept near Vehicle workshop
- xiii. **CRZ issues:** No CRZ Area is involved in the project.
- xiv. **Wildlife issues:** No Eco-sensitive areas in the study area, However the River Damodar is located at 9.6 km North. No clearance from National Board for Wildlife is required for the project.
- xv. **Investment/Cost:** The total cost of the project includes machinery and land is Rs.259.14 Crores.
- xvi. **Public Hearing:** Public Hearing was conducted on 29.11.2014 at 12:00 Hours at the playground of Goswamidihi Primary School, Saltora, Dist - Bankura, West Bengal.

- xvii. The major issues raised during the Public Hearing are the employment to the local youth, CSR activities and water requirement for the project. The project will generate employment of around 220 no's (skilled, unskilled, direct and indirect). The preference will be given to the local youth. CSR activities will be taken up and an amount of Rs. 20 Lakhs for 1st Year, Rs. 22 Lakhs for 2nd Year, Rs. 24 Lakhs for 3rd year are provided as capital cost during initial 3 years, and later on 2 to 3 % of the profit will be spent for CSR activities.
- xviii. The proposed project does not come under Critically Polluted Area and the project site is not listed in CEPI (Comprehensive Environmental Pollution Index), the order issued by GoI MoEFCC, F.No-J-11013/5/2010-IA.II(I) dated on 13.01.2010.

4. The EAC in its 147th meeting held on 23rd – 24th April, 2015, has recommended the project for grant of Environmental Clearance. The Ministry of Environment, Forest & Climate Change hereby accords Environmental Clearance for the above-mentioned **'Integrated Common Hazardous Waste Treatment, Storage, Disposal and Recycling facilities at Saltora, Bankura District (West Bengal) by M/s West Bengal Waste Management Limited (A Division of M/s Ramky Enviro Engineers Ltd.)'** as per the provisions of the Environment Impact Assessment Notification, 2006 and amendments thereto and circulars issued thereon, and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:

A. SPECIFIC 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) Transportation and handling of Hazardous Wastes shall be as per the Hazardous Wastes (Management, Handling and Trans-boundary Movement)) Rules, 2008 including the section 129 to 137 of Central Motor Vehicle Rules, 1989.
- (iii) Guidelines of Central Pollution Control Board (CPCB) for Common Hazardous Wastes Incinerators shall be followed.
- (iv) Incinerated ash shall be disposed at approved TSDF and MoU made in this regard shall be submitted to the Ministry prior to the commencement.
- (v) Periodical air quality monitoring in and around the site shall be carried out. The parameters shall include Dioxin and furans.
- (vi) Use only low sulphur diesel. No other oil shall be used.
- (vii) The proponent shall comply with the Environmental standards notified by Ministry of Environment, Forest & Climate Change for incinerators along with the technology/guidelines.
- (viii) Necessary provision shall be made for firefighting facilities within the complex.
- (ix) The Project Proponent should carryout periodical air quality monitoring in and around the site including VOC, HC.

- (x) The Project Proponent should develop green belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.
- (xi) Treated flue gas emissions discharge through stack to atmosphere shall always be less than or equal to the parameter-specific emission standards notified by the CPCB.
- (xii) All the facilities shall be designed to achieve a minimum temperature of 1100°C in secondary combustion chamber and with a gas residence time in secondary combustion chamber not less than 2 (two) seconds.
- (xiii) Incineration plants shall be operated (combustion chambers) with such temperature, retention time and turbulence, so as to achieve Total Organic Carbon (TOC) content in the slag and bottom ashes less than 3%, or their loss on ignition is less than 5% of the dry weight of the material.
- (xiv) Guidelines published by the Central Board from time to time for common incineration facilities shall be referred for implementation.
- (xv) Transportation and handling of Bio-medical Wastes shall be as per the Bio-medical Wastes (Management and Handling) Rules, 2000 including the section 129 to 137 of Central Motor Vehicle Rules, 1989.
- (xvi) The proponent should ensure that the project fulfills all the provisions of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 including collection and transportation design etc and also guidelines for Common Hazardous Waste Incineration - 2005, issued by CPCB.
- (xvii) The gas generated from the Landfill facility shall be collected and disposed as per rules
- (xviii) The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.
- (xix) The proponent should obtained necessary clearance from the Ground Water Authority.
- (xx) The depth of the land fill should be decided based on the ground water level at the site.
- (xxi) Project proponent should prepare and implement an On Site Emergency Management Plan.
- (xxii) Project proponent should carryout periodical ground water/ soil monitoring in and around the site to check the contamination.
- (xxiii) *skd* Project proponent should carryout periodical ground water/ soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.
- (xxiv) Green belt of 15 meters shall be provided all along the periphery of the site, as committed. The green belt area shall not be used for any other purpose.
- (xxv) All measures for air pollution control shall be adopted.

- (xxvi) Rain water runoff from the landfill area and other hazardous waste management area shall be collected and diverted to the leachate treatment plant.
- (xxvii) There should not be any spillage from the transportation vehicles.
- (xxviii) Zero discharge system shall be adopted.
- (xxix) Double containment system shall be provided for all waste transport vehicles to avoid spillage. The spillage shall be cleared immediately.
- (xxx) Vehicles should prominently display complaint numbers for use of public as well as antidotes to any toxic waste.
- (xxxi) All the recommendations of EMP/DMP shall be strictly complied.
- (xxxii) The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (xxxiii) Untreated domestic effluent should not be discharged into open drain. Till the sewerage system in the Industrial Estate, which is presenting being laid, is completed, the domestic effluent should be treated in a well designed septic tank with soak pit, as committed. As soon as the sewerage system is made operational the domestic effluent from the project should be discharged only into the sewerage system for treatment in terminal STP.
- (xxxiv) The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.
- (xxxv) Corporate Environment Responsibility:
- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. GENERAL CONDITIONS:

- (i) The project proponent should set up necessary facility for on site testing of wastes to decide the requirement of treatment if any, before disposal.
- (ii) Full support shall be extended to the officers of this Ministry/Regional Office at Bhubaneswar by the project proponent 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.

- (iii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bangalore regarding the implementation of the stipulated conditions.
- (iv) Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with 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 reference shall be made to the Ministry of Environment, Forest & Climate Change.
- (vi) The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
- (vii) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.
- (viii) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
- (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.
- (x) 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/ Tehsildar's office for 30 days.

5. These 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 Hazardous Wastes (Management, Handling and Transboundary) Rules, 2008 including the amendments and rules made thereafter.

6. 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.

7. The project proponent shall 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 West Bengal 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 Bhubaneswar.

8. 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.


9. 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.

10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/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, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.


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 e-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 Offices of MoEF&CC by e-mail.


15/7/2015
(S.K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Department of Environment, Government of West Bengal, Kolkata
2. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
3. The Member Secretary, West Bengal Pollution Control Board, Bldg No:10-A, Block L-A, Sector III, Salt Lake City, Kolkata – 700 098.
4. The CCF, Regional Office, Ministry of Environment, Forest & Climate Change (EZ), A/3, Chandrasekharpur, Bhubaneswar – 751 023, Orissa.
5. Guard File.
6. Monitoring Cell, MoEF.


15/7/2015
(S.K. Srivastava)
Scientist E