



सत्यमेव जयते

State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 1 IND 2015

Date: 28-08-2015

To,

M/s Mother Earth Environ Tech Private Limited
#2542, 28th Cross, 17th Main Road,
Banashankari 2nd Stage
Bangalore-560 070

Sir,

Sub: Establishment of Hazardous Waste Landfill at Plot. No. 217 of Harohalli Industrial area, 2nd Phase, Kanakapura Taluk, Ramanagar District By M/s Mother Earth Environ Tech Private Limited - Issue of Environmental Clearance - Reg.

This has reference to your application dated 29th December 2014 addressed to SEIAA, Karnataka and subsequent letters addressed to SEIAA/SEAC, Karnataka seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Application in Form 1, EIA Report and the additional clarifications furnished in response to the observations of the SEAC, Karnataka. SEAC has recommended for issue of Environmental Clearance in its meetings held on 13th & 14th July 2015.

2. It is, inter-alia, noted that M/s Mother Earth Environ Tech Private Limited have proposed for Hazardous Waste Landfill consists with Cell-1 of 50,000 Tons capacity and Cell-2 of 45,000 Tons capacity. The total plot area is 14,424.6Sq.m. Total water consumption is 3 KLD will be met from KIADB supply, out of which 0.5 KLD for domestic purpose and 2 KLD for green belt. One number DG set of 100 KVA will be installed for emergency power back-up. The total cost of the project is Rs.16.55 Crores.

3. The wastewater generation will be 0.4 KLD domestic sewage shall be treated in Septic tank and Soak pit and 2KLD Leachate generated from landfill waste. The solid waste generated is inorganic and organic of quantity

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1.2Kg/day and 0.8 Kg/day respectively shall be composted and used as manure for landscape. The Hazardous waste such as used oil/lubricant oil of 50 Ltr/Annum and Used bags of 50 Bag/day shall be send to Authorized reprocessor.

4. The project proposal has been considered by SEAC during the meeting held on 9th, 10th and 11th February 2015 and ToR was issued on 3rd March 2015 for conducting Environment Impact Assessment (EIA) Study. The project is located within the notified industrial area and hence does not require public consultation. The EIA has been conducted and report submitted by M/s. Aqua Tech Enviro Engineers, No. 3391, 6th Main, 3rd Cross, RPC Layout, Vijayanagar 2nd Stage, Bangalore-560 040. The O. M dated 02.12.2009, 18.03.2010 and 28.06.2010 issued by the MoEF, GoI, regarding mandatory accreditation of environmental consultants from NABET/QCI is not applicable in this case in view of the stay granted by High Court of Karnataka in W. P. No. 15575/2012 (GM-RES): (Sri. K R Sreeharsha S/o Late K V Ramaswamy, R/AT No. 5/76, IV main N R Colony, Bangalore-560 009 V/s M/s. Union of India represented by MoEF, GoI & DFEE, GoK) on 18.05.2012. The proponent has submitted the EIA report on 19th June 2015.

5. Based on the information submitted by you and your consultant M/s. M/s. Aqua Tech Enviro Engineers, No. 3391, 6th Main, 3rd Cross, RPC Layout, Vijayanagar 2nd Stage, Bangalore-560 040. The State Level Expert Appraisal Committee (SEAC) examined the proposal in the meeting held on 13th and 14th July 2015 and has recommended for issue of Environmental Clearance.

6. The SEIAA Karnataka has considered the project in its meeting held on 25th July 2015 and after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations and the appraisal and recommendation of the SEAC, have accorded environmental clearance as per the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions:-

Part A- SPECIFIC CONDITIONS

1. '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.
2. 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.
3. Necessary provision shall be made for firefighting facilities within the complex.
4. The Project Proponent should carryout periodical air quality monitoring in and around the site including VOC, HC.
5. The Project Proponent should develop green belt all along the periphery



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- of the TSDF with plant species that are significant and used for the pollution abatement.
6. 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.
 7. The gas generated from the Landfill facility shall be collected and disposed as per rules
 8. The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.
 9. The proponent should obtained necessary clearance from the Ground Water Authority.
 10. The depth of the land fill should be decided based on the ground water level at the site.
 11. Project proponent should prepare and implement an On Site Emergency Management Plan.
 12. Project proponent should carryout periodical ground water/ monitoring soil in and around the site to check the contamination.
 13. Project proponent should carryout periodical ground water/ soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.
 14. 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.
 15. All measures for air pollution control shall be adopted.
 16. Rain water runoff from the landfill area and other hazardous waste management area shall be collected and diverted to the leachate treatment plant.
 17. There shall not be any spillage from the transportation vehicles.
 18. Zero discharge system shall be adopted.
 19. Double containment system shall be provided for all waste transport vehicles to avoid spillage. The spillage shall be cleared immediately.
 20. Vehicles should prominently display complaint numbers for use of public as well as antidotes to any toxic waste.
 21. All the recommendations of EMP/DMP shall be strictly complied.
 22. 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.
 23. Untreated domestic effluent should not be discharged into open drain. Till the sewerage system in the Industrial Estate, which is presently 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.
 24. Final disposal measures - the hazardous wastes should prevent contamination of ground water, surface water and ambient air quality.



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25. Facility for land filling should be designed with protective measures against pollution of ground water, surface water and air fugitive dust, wind-blown litter, bad odour, fire hazard, bird menace, pests or rodents, greenhouse gas emissions, slope instability and erosion.
26. Proper mechanism should be adopted for extraction of leachate and treatment of the same as committed.
27. The facility capacity shall handle only to the maximum designated capacity.
28. Stray animals shall not be allowed to move around the facilities.
29. Manual handling of waste shall be prohibited. If unavoidable due to constraints, manual handling shall be carried out under proper precaution with due care for safety of workers.
30. Vehicles used for transportation of wastes shall be covered. Waste should not be visible to public, nor exposed to open environment preventing their scattering.
31. Transportation vehicles shall be so designed that multiple handling of wastes, prior to final disposal, is avoided.
32. First aid and sanitation arrangements shall be made for the drivers and other contract workers.
33. Regular online monitoring of the ambient air quality and water quality shall be carried out in monitoring stations and frequency of monitoring shall be decided in consultation with the State Pollution Control Board. Periodic reports shall be submitted to the SEIAA Karnataka, Department of Ecology and Environment, Government of Karnataka, Bangalore/ KSPCB.
34. Green belt shall be developed in at least 33% of the total project area as committed with suitable species of the plants as per the CPCB guidelines. Planting aromatic and flowering climbers to cover the compound shall be undertake further 4 to 6 rows of bamboo mixed with aromatic trees. Grafted 'Kenda Sampige' shall get priority.
35. The result of online monitoring shall be displayed in the project site in such a way that it is predominantly visible to the general public.
36. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
37. The project Authority shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
38. Vehicles used for transportation of the municipal solid waste shall be properly cleaned and sanitized after every load is unloaded at the site. No un-cleaned vehicle shall be allowed to ply on the roads of the city.
39. The project Authority shall establish odour control system comprising of Air ventilation system and odour removal system. Bio filters shall also be provided for odour control over area such as waste reception pit, pre-sorting area, windrow composting pads and curing sheds and screening & packing.
40. All the required mitigation measures shall be employed to avoid hazards arising out of land fill site.

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41. The project authority shall not handle the Hazardous waste other than those listed in the project proposal.
42. The project Authority shall take extra care while handling the hazardous waste containing heavy metal such as Lead, Mercury, Arsenic, Cadmium, Zinc, Cobalt etc., if Any to avoid the accidental entry into the Eco-system and to contain safely in the cells appropriately if such heavy metal cannot be recovered.

B. GENERAL CONDITIONS;

1. The project proponent should set up necessary facility for onsite testing of wastes to decide the requirement of treatment if any, before disposal.
2. The implementation of the project vis-à-vis environmental action plans shall be monitored by MoEF Regional Office at Bangalore / KSPCB/ CPCB/ and the Department of Environment & Ecology, Government of Karnataka, Bangalore. A six monthly compliance status report shall be submitted to monitoring agencies.
3. The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board.
4. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA/Ministry of Environment and Forests as the case may be. In case of deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the Authority to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
5. The project proponent shall also comply with all the environmental protection measures and safeguards as per the information provided.
6. In case of any deviation or alteration in the project proposed from that submitted to SEIAA, Karnataka for clearance, a fresh reference shall be made to the SEIAA, Karnataka to assess the adequacy of the condition (S) imposed and to incorporate additional environmental protection measures required, if any.
7. 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.
8. 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 KSPCB. The criteria pollutant levels namely; TSPM, 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.
10. A separate environment management cell with qualified staff shall be set up for implementation of stipulated environmental safeguards.

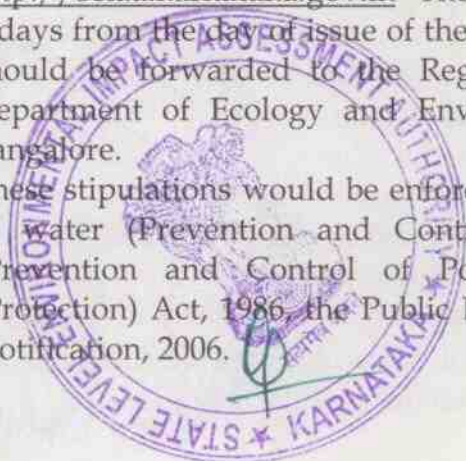
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11. Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the Ministry.
12. The environmental clearance accorded shall be valid for a period of 5 years to start of the project.
13. The project authorities shall inform the MoEF Regional Office at Bangalore / KSPCB/ CPCB/ and the Department of Environment & Ecology, Government of Karnataka, Bangalore, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
14. The SEIAA, Karnataka reserves the right to stipulate additional conditions, if found necessary.
15. The above conditions will be enforced, inter-alia under the provisions of the Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 along with their amendments and rules.
16. Officials from the Department of Environment and Ecology, Government of Karnataka, Bangalore/ Regional Office of MoEF, Bangalore, KSPCB who would be monitoring the implementation of Environmental safeguards should be given full cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to SEIAA should be forwarded to the CCF, Regional Office of MoEF, Bangalore/ Department of Environment and Ecology, Government of Karnataka, Bangalore and KSPCB.
17. The Authority 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 Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
18. 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 Karnataka State Pollution Control board and may also be seen on the website of the Ecology and Environment Department at <http://seiaa.kar.nic.in> or <http://seiaa.karnataka.gov.in> The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of MOEF at Bangalore/ Department of Ecology and Environment, Government of Karnataka, Bangalore.
19. 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 EIA Notification, 2006.



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20. The SEIAA, Karnataka may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.



Yours faithfully,


(RAMACHANDRA) 28/8/11
Member Secretary,
SEIAA - Karnataka.

Copy to:

- 1) The Secretary, Ministry of Environment & Forests, Government of India, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore - 560 034.
- 4) Guard File.