



REGD.POST WITH ACK.DUE

Order No. SEIAA/AP/RRD-111/2009 -

Dt: 20-06-2012.

Sub: SEIAA, A.P. – Integrated Municipal Solid Waste Management Project (proposed by GHMC), at Sy. No: 173, Jawaharnagar (V), Shameerpet (M), Ranga Reddy District - Environmental Clearance - Issued - Reg.

- I. This has reference to your letters dt.17.02.2009, 27.04.2009, 18.05.2009, 02.07.2010, 04.08.2010, 07.10.2010, 05.01.2011, 15.04.2011, 06.05.2011, 23.05.2011, 24.05.2011, 04.07.2011, 30.08.2011, 07.10.2011, 24.10.2011, 20.12.2011, 26.12.2011, 30.01.2012, 10.04.2012 and 10.05.2012 seeking Environmental Clearance for the proposed **Integrated Municipal Solid Waste Management Project by GHMC, at Sy. No: 173, Jawaharnagar (V), Shameerpet (M), Ranga Reddy District;** by modernizing the existing municipal dumping yard. It is reported that the nearest human habitation viz., Jawaharnagar (V) exists at a distance of 0.7 km from the project site. The Army College of Dental Sciences is situated at a distance of 0.3 km. The Sub-Committee constituted by the SEAC reported that there are some built-up or upcoming housing complexes or housing colonies around the MSW dumping site within a distance of less than 1.0 km. viz., Rajiv Gruhakalpa, Defence colony. It is noted that Dammaiguda RF and Shameerpet RF exist at 0.67 km and 3.0 km from the proposed project site. The total area of the existing site is Ac. 351.12; Green belt is Ac. 7.12. The total cost of the project is Rs. 778.70 Crores. It is proposed to develop the following facilities in a phased manner to process MSW of 5500 TPD (as per lr.dt. 20.12.2011).

Description of the facility	Total capacity
RDF plant : (2 x 1200 TPD)	2400 TPD
Compost plant : (3 x 680 TPD)	2040 TPD
Power plant : (2 x 24 MW)	48 MW
Bio-Methanization : (10 x 50 TPD)	500 TPD
Recycling complex (Plastic, Paper, Metal, Rubber, Glass etc.,)	600 TPD
Processing of construction and demolition waste :	800 TPD.
Landfill with leachate collection and treatment system:	735 TPD

- II. In the process, the Municipal Solid Waste (MSW) from different dump yards in GHMC limits is collected. It is transported in closed and dedicated containers to the Jawaharnagar site. The MSW is processed by segregating the waste into land-filling, composting, recycling and using waste to generate electricity.
- III. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application in its meetings held on 29.04.2009, 26.06.2009, 07.01.2011, 25.02.2011, 30.05.2011, 28.07.2011, 02.09.2011, 28.10.2011, 25.11.2011, 29.12.2011, 21.04.2012 & 19.05.2012. The public hearing was held on 29.03.2012 at Pachayat Office, Jawaharnagar, RR Dist. The sub-Committee constituted by the SEAC inspected the site on 27.01.2011. The members of SEAC inspected the site again on 28.04.2012. Based on the information furnished, presentation made by the proponent and the consultant M/s. Ramky Enviro Engineers Ltd., Hyderabad; site inspection reports of SEAC; minutes of the public hearing and objections in the public hearing/representations received against the project, the SEAC considered the project proposal

and recommended for issue of Environmental Clearance. The State Level Environment Impact Assessment Authority (SEIAA), in its meetings held on 19.08.2011, 23.11.2011 & 31.05.2012 examined the proposal and the recommendations of SEAC, and decided to issue Environmental Clearance. The EFS&T Department vide Ir. dt. 21.05.2012 informed that the SEIAA may issue Environmental Clearances to the projects, which are not falling in the areas of bye-polls. The SEIAA in its meeting held on 31.05.2012 had decided to implement the same. The SEIAA, A.P hereby **accords prior Environmental Clearance to the project** as mentioned at Para no. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:

A. Specific Conditions:

a) The proponent shall comply with the following conditions:

- i **The operator and the management shall strictly enforce and implement the Municipal Solid Waste (Management and Handling), Rules of 2000.**
- ii Full medical facility shall be provided to all the employees and workers engaged by the integrated MSW facility, irrespective of their income and financial status.
- iii Compound wall shall be constructed around the MSW site.
- iv The management shall supply drinking water to the affected areas where the water resources are contaminated.
- v Alternate fuels shall be used only for heating or re-heating the furnace (as startup fuel) to the extent required; only to facilitate combustion of Municipal Solid Waste as per the norms.

b) **Air pollution:**

- i The particulate emissions from the stack of height 60 m connected to the Boiler of MSW based TPP, shall not exceed 100 mg/Nm^3 . ESP & Venturi scrubber shall be provided to control emissions as presented.
- ii Sampling Port with removable dummy of not less than 15cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc., shall be provided to monitor stack emissions. Adequate stack height shall be provided for D.G. Sets (2 x 500 kVA) as per CPCB norms.
- iii On line Stack monitoring/Ambient air quality Monitoring Stations shall be installed. Energy meters shall be installed for all pollution control systems.
- iv The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Appropriate control systems such as bag filters shall be provided at all transfer points, Raw material screen houses, etc.,
- v Municipal Solid Waste shall be transported in covered trucks. All the belt conveyors shall be covered with G.I. sheets. Appropriate dust suppression system shall be provided all around the stockpiles and conveyor system. All the roads in the plant area shall be asphalted / concreted and water shall be sprinkled to suppress the dust.
- vi The entire MSW collected in a day shall be processed completely, to eliminate the possibility of putrefaction. Herbal Sanitizer shall be sprayed on the MSW to arrest multiplication of pathogenic micro organisms, flies and to control odour.
- vii Acoustic enclosures shall be provided around turbine to control noise levels. Ambient air quality including ambient noise levels must not exceed the standards stipulated under Notification dt. 16.11.2009 issued by the MoE&F,GOI. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the Board and to the Ministry's Regional Office at Bangalore half yearly.

- iv. No change in the process technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, AP/ MoE&F, GoI, New Delhi, as applicable.
- v. The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA; and CCF, Regional office of MoE&F, GoI, Bangalore on-1st June and 1st December of each calendar year.
- vi. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- vii. Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- viii. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- ix. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- x. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- xi. The funds earmarked for environmental protection measures (Capital cost Rs.34 crores and Recurring Cost Rs. 12 lakhs per annum) and socioeconomics development (Rs. 60 lakhs) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA, Ministry and its Regional Office located at Bangalore.
- xii. The Regional Office of MOE&F located at Bangalore monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- xiii. The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- xiv. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P. This order shall be displayed in the website of the project proponent.
- xv. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xvi. The proponent shall explicitly follow the suggestions and commitments made in the public hearing in protection of the environment.
- xvii. Environmental 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.

c) Water Pollution:

- i The source of water is HMWS & SB/ Bore wells within the site. The total water requirement shall not exceed 3100 KLD. Out of that, fresh water requirement is 2575 KLD and 525 KLD is recycled water. Quantity of water used for: Cooling tower makeup is 750 KLD ; DM Plant/ boiler make-up is 675 KLD; floor washing is 10 KLD; vehicle work shop, fire water makeup etc., is 20 KLD; compost plant is 350 KLD; RDF plant is 25 KLD; recycling complex is 10 KLD; development of green belt is 1160 KLD ; domestic purpose is 100 KLD.
- ii The total waste water generated is 552 KLD. Out of that, 262 KLD is from cooling tower blow down; 106 KLD from Boiler blow down; 70 KLD from DM regeneration; 90 KLD from domestic section; 6 KLD from floor washing; and 18 KLD from work shop/vehicle maintenance shed.
- iii No effluent shall be discharged outside the premises and 'zero' discharge shall be adopted. The waste water generated from the boiler blow down, DM plant regeneration; cooling tower bleed of, floor washings and work shop/vehicle maintenance shed shall be treated to conform to on land for irrigation standards prescribed by the MoE&F, GOI. The treated waste water is to be reused and recycled for various purposes within the premises including development of green belt. The domestic waste water of 90 KLD shall be treated in an STP and used to develop green belt to conserve fresh water.
- iv The leachate generated from the windrow of the compost plant (204 KLD) and leachate generated from the operated landfill (110 KLD) shall be treated and re-used for sprinkling on windrows to maintain the moisture content, as mentioned at page no. 9.9 of the final EIA report. Leachate shall not be discharged into the water bodies existing in and around the project site.
- v The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water.
- vi Green belt of adequate width shall be developed along the boundary, approach roads etc., in consultation with the local DFO.
- vii The existing dump shall be capped and greenery shall be developed on the same to reduce soil erosion.

d) Solid Waste :

- i. The solid waste generated from the MSW viz., Soil Enricher is to be used as manure; The Ash generated from the MSW based thermal power plant and the inert material shall be disposed into the secured land fill.
- ii. Waste oils, used oils, hazardous waste generated from the industry shall be disposed as per the Hazardous Wastes (Management, Handling, and transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.

B. General Conditions:

- i. This order is valid for a period of 5 years.
- ii. "Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any activity / construction work at site.
- iii. Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, medical health care, crèche etc., The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.

- xviii Any appeal against this Environmental 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.
- xix. The company shall undertake eco-development measures including community welfare measures in the project area.
- xx. The proponent shall obtain all other mandatory clearances from respective departments.
- xxi. Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xxii. The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxiii The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Sd/-
MEMBER SECRETARY
SEIAA, A.P.

Sd/-
MEMBER
SEIAA, A.P.

Sd/-
CHAIRMAN,
SEIAA, A.P.

To

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Municipal Complex, Tank Bund Road,
Hyderabad - 500063.
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Copy to:

1. Prof. M. Anji Reddy, Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO-II, APPCB, RR Dist for information.
4. The Zonal Officer, MoE&F, GOI Bangalore for kind information.
5. The Secretary, MoE&F, GOI New Delhi for kind information.

-//T.C.F.B.O//-


SENIOR ENVIRONMENTAL ENGINEER (EC)