State Level Environment Impact Assessment Authority, Jharkhand
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सत्यमेव जयते

Letter No.- **EC/ SEIAA/ 2017-18/2101/2017** Ranchi, Date:

To: **Ranchi Municipal Corporation**
Kutchery Road Ranchi,
RMC, Kutchery Road,
Ranchi, Jhakhand – 834001.

Sub: Prescribing of ToR to **"Integrated Municipal Solid Waste Management Facility for Ranchi Municipal Corporation, at Khata no. : 54, 77, 29, 27, Plot no. : 251, 252, 249, 253, 254, 255, 250, 262, 219, 261, 218, 260, at Vill. : Jhiri, Kanke, Dist. : Ranchi, Jharkhand" (Proposal no. : SIA/JH/MIS/28276/2018) regarding.**

Ref: Your application no.- nil dated - 22.04.2019.

Sir,

Reference is invited to your letter along with the application in the prescribed format (Form-1) and a copy of the pre-feasibility report to prescribe the ToRs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendments thereafter. For this purpose the project proponent has submitted the prescribed Form - I & PFR the proposed project falls under item 7 (i) (Common Municipal Solid Waste Management Facilities) as per EIA notification, 2006.

Essel Infra projects Ltd, Essel Utility have formed Special Purpose Company (SPC). Ranchi Municipal Corporation has entered into agreement for the project with this SPC for setting up an 6 MW power generation plant along with provisions of a landfill for inert and ash management based on 525 MT unsegregated (330 processed) of MSW daily.

M/s Ranchi MSW Pvt. Ltd. proposes its Integrated Municipal Solid Waste Facility at Khata no. : 54, 77, 29, 27, Plot no. : 251, 252, 249, 253, 254, 255, 250, 262, 219, 261, 218, 260, Jhiri, Ranchi. Geographically the site is located at Latitude 23° 24' 41.10" N and Longitude85° 15' 21.28" E. The site is only 1.0 km away from NH 75 and is about 0.11 km from ring road. The nearest railway station is Ranchi Railway Junction which is about 10.5 km away. Nearest town is Ranchi, which is about 9.20 km from the proposed site. Nearest Airport is Birsa Munda Airport. The estimated project cost is Rs. 9721.72 Lakhs.

The total land available for the proposed project is about 17.01 ha. The total land has been acquired. Around 30 KLD of water will be required during construction phase and 150 KLD will be required during plant operational phase. The required water will be sourced from ground sources.

After being processed in Waste to Energy Power Plant the amount of inerts, Bottom ash and fly ash generated will be about 45 TPD out of which the bottom ash and inerts will be recycled and 5 TPD of fly ash will be sent to landfill or will be used for fly ash bricks.

The proponent presented the proposed salient features :

i. Complete coverage of door to door and community collections served by vehicles.
ii. Provide real time alert generation based on the level of garbage volume in the bins.
iii. Efficient monitoring and management of waste collection bins.
iv. Real time alert once garbage is picked up from a particular bin.
v. Manage routes and vehicles dynamically through automated system.
vi. Real time management of missed garbage collection points.
vii. GPS tracking of the waste pick up vehicle for real time tracking.
viii. Keep history of vehicle routes, attended sites and other details.
ix. Do route optimization which shall help in reduction of trip time fuel saving and serving more location.
x. Number of trips undertaking and bins cleared with exact time stamps for each vehicle.
xi. Reporting of vehicles, garbage collections and other SWM details to higher authorizes from any location and any time.
xii. Ability to sense / record deviation from schedule, update system and intimate user on the same.
xiii. Integrate the dumping ground and transfer station facilities with the centralized locations.
xiv. Weighty bridge interface at secondary collection points and at dump yards for weight calculation of each type of garbage.

DFO, Ranchi vide letter no. 3548, dated - 30.10.18 certified that the distance of Gutwa forest is 4800 m from project site and not within 10 km from National Park, Bio-Diversity & Sanctuary and proposed project site is not under ESZ. The CO, Ratu vide letter no.893 (ii), dated - 23.10.18 has mentioned that the plot no. of the project site is not recorded as Jangal Jhari in Khatiyan & Register II.

The PP Commissioner, Ranchi Municipal Corporation has submitted proposal for issuance of ToR for Integrated Municipal Solid Waste Management Facility. The PP has not turned up before the SEAC in its 70th meeting held on 29-30.04.19, in spite of MS, SEAC memo no. 59, dated 23.04.19 for presentation of their case. The SEAC decided to defer the issue for next meeting.
The authorized representative of PP appeared on next date of meeting i.e. on 15.05.19.However, they orally requested for grant of time for presentation.

The authorized representative of PP on the request memo no. 279, dated 22.05.2019 of the SEAC turned up on next meeting for presentation with the help of consultant.

The PP further elaborated components of the projects i.e. primary collection, secondary collection, processing facilities, street sweeping facilities, characteristics of MSW, boiler design, proposed turbo generating turbine, power evacuation system, solid waste management &air &water pollution control system. The details of secure land fill which has been designed as per the MoEF&CC guidelines having Geo synthetic clay liner and High density poly ethylene (HDPE) Geo membrane and geo composite layer along with land fill processing system.

Since, the project is B1 category, accordingly as per EIA notification, 2006 first of all Terms of Reference (ToR) for preparation of detailed one season data except rainy season baseline data generation, Environmental Impact Assessment and Environmental Management Plan and Public Hearing is to be conducted.

After completion and submission of final EIA/EMP along with Public Hearing report, this committee will appraise the proposed project and on finding satisfactory completion of ToR points EC will be issued.

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meeting held during 27-30.05.19 the Committee recommends issuing of TORs for consideration of SEIAA for undertaking detailed EIA / EMP study.

SEAC, Jharkhand has suggested the ToRs in its 72nd meeting dated 27th, 28th, 29th and 30th May, 2019 and SEIAA, Jharkhand has approved the ToRs in its meeting held on 03rd June, 2019.

The TORs prescribed for undertaking detailed EIA study are as follows:

Specific condition:

1. Details of majors taken to control the emission of VOC and other toxicions to be provided with details of pollution control majors to prevent spillage of MSW during transportation, handling, storage processing, leaching into sub soil and final disposal of Ash from Thermal Power Stations (Boiler).
2. EIA should provide elaborate details with regards to majors taken to minimise order from waste treatment plant at all stages of transportation, handling, storage.
3. The issue of capacity building of pickers and lower level workers specially the house holders and women associated with plant activities including segregation needs to be addressed through training and detail the majors to be taken for incorporation in EIA.
4. While preparing EIA report, project proponent should carry out actual analysis of solid waste with regard to cacographic value and incorporate these values in EIA report by weekly.
5. EIA report to increase caloric value of the waste should be under taken in details apart from purely regulatory measures, mechanism the could be employed to ensure segregation of waste in general and other electronic biomedical and building material waste in particular in this context, project EIA should bring out details of such interventions with cost estimate and time of implementation.
6. The air pollution control equipments proposed to be set up should be examined thoroughly in terms of norms laid down by CPCB and be installed accordingly.

General condition:

1. The project should be designed based on the population projections as by Master Plan.
2. Submit a 10 km. radius map (on survey of India toposheet) showing co-ordinates of project site, national highway, state highway, district road/approach road, river, canal, natural drainage; protected areas, under Wild Life (Protection) Act, archaeological site, natural lake, flood area, human settlements (with population), industries, high tension electric line, prominent wind direction (summer and winter), effluent drain, if any and ponds etc. should be presented and impacts assessed on the same.
3. Examine and submit details of alternative technologies viz. RDF shall also be evolved.
4. Examine and submit details of storm water/ leachate collection from the composted area.

5. Examine and submit details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.

6. Examine and submit details of the odour control measures.

7. Examine and submit details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.

8. Submit the criteria for assessing waste generation. Any segregation of hazardous and bio-medical wastes.

9. Submit a copy of the layout plan of project site showing solid waste storage, green belt (width & length, 33% of the project area), all roads, prominent wind direction, processing plant & buildings etc. should be provided.

10. Submit a copy of the land use certificate from the competent authority.

11. NOC from local or nearest airport within 20 km and any flight funnel restrictions.

12. Submit a copy of the status of ambient air quality and surface and ground water quality, soil type, cropping pattern, land use pattern, population, socio-economic status, anticipated air and water pollution.

13. Submit a copy of the topography of the area indicating whether the site requires any filling, if so, the details of filling, quantity of fill material required, its source and transportation, etc.

14. Examine and submit the details of impact on the drainage and nearby habitats/settlements (surroundings).

15. Examine and submit the details of surface hydrology and water regime and impact on the same.

16. Examine and submit the details of one complete season AAQ data (except monsoon) with the dates of monitoring, impact of the project on the AAQ of the area (including H2S, CH4).

17. Submit a copy of detailed plan of waste management.

18. Submit the details of sanitary land fill site impermeability and whether it would be lined, if so details thereof.

19. Examine and submit the details of impact on environmental sensitive areas.

20. Examine and submit the details of rehabilitation/compensation package for the project effected people, if any.

21. Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.

22. Public hearing to be conducted for the project in accordance with provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

23. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.

24. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

25. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

26. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http://moef.nic.in/Manual/Common Municipal Solid Wastes".

27. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

28. The prescribed TORs would be valid for a period of three years for submission of the EIA / EMP reports, as per the O.M. No. J-11015 / 109 / 2013 – IA.II (M), dated 12.01.2017.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No.-**EC/SEIAA/2017-18/2101/2017** 268 Dated: 05.06.2019

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
2. Member Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

5.6.19
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.