F.No.10-40/2019-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III - Section)

Indira Paryavaran Bhawan,
JorBagh Road, New Delhi - 110003
Date: 5th December, 2019

To,

Shri Sanjiv Kumar, National Head – IWM
M/s Ramky Enviro Engineers Limited
Ramky Enviro Engineers Limited 13th Floor Ramky Grandiose,
Ramky Tower Complex, Gachibowli Hyderabad - 500032
Email: consultancygroup@ramky.com

Subject: Integrated Common Hazardous Waste Treatment, Storage, Disposal & Recycling Facility at Industrial Growth Center (IGC), Maneri Village, Mandla District, Madhya Pradesh by M/s Ramky Enviro Engineers Limited - Terms of Reference - regarding.

Sir,

This has reference to your online proposal No. IA/MP/MIS/117811/2019 dated 13th September, 2019, submitted to this Ministry for grant of Terms of Reference (ToR) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006.

2. The proposal for 'Integrated Common Hazardous Waste Treatment, Storage, Disposal & Recycling Facility'at Industrial Growth Center (IGC), Maneri Village, Mandla District, Madhya Pradesh by M/s Ramky Enviro Engineers Limited was considered by the Expert Appraisal Committee (Infra-2) in the Ministry in its 45th meeting held during 17-18 October, 2019. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above said EAC meeting, are reported to be as under:

i. Ramky Enviro Engineers Limited (REEL) proposes to establish an Integrated Common Hazardous Waste Treatment, Storage, Disposal & Recycling Facility in an area of 19.77 acres (8 Ha.) at plot no. 11, 12, 13, 14, 18, 19, 20, 21, 27, 28, 29, 31, 32, 33, 34, 35, 36, 43 and 44, at Industrial Growth Centre (IGC), Maneri (V), Mandla (D), Madhya Pradesh.

ii. Facilities proposed to be developed as part of this project include:

S. No.	Facility	Capacity
1	Secured Landfill (Direct Landfill)	250 TPD
2	Landfill after Treatment	400 TPD
3	Incineration*	55 TPD
4	Bio Medical Waste Treatment	12.5 TPD
5	Alternative Fuel and Raw Material Facility (AFRF)	55 TPD
6	E-Waste Recycling Facility (with Precious Metal Recovery)	82 TPD
7	Drum Decontamination Recycling Plant	10 TPD
8	Used / Spent Oil Recycling Facility	54 KLD
9	Lead Recycling Facility	65 TPD
10	Paper Recycling Facility	10 TPD
11	Plastics Recycling Facility	10 TPD
12	Solvent Recovery Facility	27 KLD
13	Aluminium Dross Reprocessing Facility	165 TPD
14	Spent Pot Liner (Carbon Portion) Reprocessing Facility	165 TPD

15	Spent Pot Liner (Refractory Portion) Reprocessing and Disposal Facility	165 TPD
16	Renewable Energy	2 MW
17	Waste to Energy	2 MW

iii. As per the Notification issued by the Ministry of Environment, Forest and Climate Change (MoEF&CC) S.O. 1533, dated 14.09.2006 and its subsequent amendments, the proposed project falls under Project Activity 7(d) - Common Hazardous Waste Treatment, Storage and Disposal Facilities (TSDFs), Category 'A' - All Integrated facilities having incineration and landfill or Incineration alone.

iv. It is proposed to develop greenbelt in an area of not less than 33% of the total area. Greenbelt shall be developed with specific species as per CPCB's 'Guidelines for Developing Greenbelts (PROBES/75/1999-2000)'.

v. The capital cost for the proposed project is estimated to be Rs. 40 Crores.

vi. The total water requirement is estimated to be about 120 KLD, which will be met through Audyogik Kendra Vikas Nigam (Jabalpur) Limited/tankers/borewell. It is proposed to treat all the wastewater and leachate within the project premises and it is proposed to reuse the treated water (Zero Liquid Discharge).

vii. The power requirement is estimated to be about 375 kVA. Power will be supplied by Madhya Pradesh State Electricity Board (MPSEB) and sufficient quantity of DG sets will be used for emergency power backup.

viii. It is proposed to equip the incinerator facility with Continuous Emission Monitoring System (CEMS) and the emission data shall be transmitted to SPCB/CPCB.

3. The project/activity is covered under category A of item 7(d) 'Common hazardous waste treatment, storage and disposal facilities (TSDFs)' of the Schedule to the EIA Notification, 2006 and its subsequentamendments, and requires appraisal at Central level by sectoral EAC.

4. The project proponent informed the EAC that M/s Ramky Enviro Engineers Limited (REEL), considering the increasing trend in hazardous waste generation in the state of Madhya Pradesh, and considering the need for different disposal/recycling methods for different waste streams, proposes to establish an Integrated Common Hazardous Waste Treatment, Storage, Disposal & Recycling Facility in an area of 19.77 acres (8 hectares) at plot no. 11, 12, 13, 14, 18, 19, 20, 21, 27, 28, 29, 31, 32, 33, 34, 35, 36, 43 and 44 (total 19 plots) at Industrial Growth Centre (IGC), Maneri Village, Mandla District, Madhya Pradesh (Notified Industrial Area).

5. The EAC, in its meeting held on 17-18 October, 2019, after detailed deliberations, recommended the project for grant of Terms of Reference as specified by the Ministry as Standard ToR in April, 2015 for the said project/activity for preparation of EIA-EMP report. On the basis of the recommendation of EAC and the submission given by the project proponent, the Ministry of Environment, Forest and Climate Change hereby accords ToR to the project 'Integrated Common Hazardous Waste Treatment, Storage, Disposal & Recycling Facility at Industrial Growth Center (IGC)'Maneri Village, Mandla District, Madhya Pradesh by M/s Ramky Enviro Engineers Limited for preparation of the Environment Impact Assessment (EIA) Report and Environment Management Plan (EMP) with the following specific and general conditions in addition to Standard ToR provided at **Annexure**:

(i) Importance and benefits of the project.

(ii) The E.I.A. would address to the conformity of site to the stipulations as made in the Hazardous and other Wastes (Management, handling and trans-boundary

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movement) Rules, 2016 and will have a complete chapter indicating conformity to the said rules.

(iii) Project proponents would also submit a write up on how their project proposal conform to the stipulations made in the "Protocol for Performance evolution and monitoring of the Common Hazardous Waste Treatment Storage and Disposal facilities including common Hazardous Waste incinerators", published by the CPCB on May 24, 2010.

(iv) Status of compliance to the provisions of the *Hazardous* and Other *Wastes (Management* and Transboundary Movement) *Rules,* 2016, and Bio-Medical Waste Management Rules, 2016.

(v) Details of various waste management units with capacities for the proposed project.

(vi) List of waste to be handled and their source along with mode of transportation.

(vii) Other chemicals and materials required with quantities and storage capacities.

(viii) Details of temporary storage facility for storage of hazardous waste at project site.

(ix) Details of pre-treatment facility of hazardous waste at TSDF.

(x) Details of air emissions, effluents, hazardous/solid waste generation and their management.

(xi) Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).

(xii) Process description along with major equipments and machineries, process flow sheet (quantitative) from waste material to disposal to be provided.

(xiii) Hazard identification and details of proposed safety systems.

(xiv) Details of Drainage of the project up to 5 km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided.

(xv) Ground water quality monitoring in and around the project site.

(xvi) The Air Quality Index shall be calculated for base level air quality.

(xvii) Status of the land purchases in terms of land acquisition Act and study the impact.

(xviii) Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

(xix) R&R details in respect of land in line with state Government policy.

(xx) Details of effluent treatment and recycling process.

(xxi) Leachate study report and detailed leachate management plan to be incorporated.

(xxii) Action plan for measures to be taken for excessive leachate generation during monsoon period.

(xxiii) Action plan for any pollution of ground water is noticed during operation period or post closure monitoring period.

(xxiv) Detailed Environmental Monitoring Plan as well as Post Closure Monitoring Plan.

(xxv) Submit details of Bio Medical Waste to be handled and the other facilities operating within 75 km area.

(xxvi) A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.

(xxvii) A detailed Plan for green belt development.

(xxviii) A certificate from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

(xxix) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

(xxx) The project proponents shall satisfactorily address to all the complaints/suggestions that have been received against the project till the date of submission of proposals for Appraisal.

(xxxi) Plan for Corporate Environment Responsibility (CER) as specified under Ministry's Office Memorandum vide F.No. 22-65/2017-IA.III dated 1st May 2018 shall be prepared and submitted along with EIA Report.

(xxxii) A tabular chart with index for point wise compliance of above ToRs.

General Guidelines:

(i) The EIA document shall be printed on both sides, as for as possible.

(ii) All documents should be properly indexed, page numbered.

(iii) Period/date of data collection should be clearly indicated.

(iv) Authenticated English translation of all material provided in Regional languages.

(v) The letter/application for EC should quote the MoEF&CC File No. and also attach a copy of the letter prescribing the ToR.

(vi) The copy of the letter received from the Ministry on the ToR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.

(vii) The final EIA-EMP report submitted to the Ministry must incorporate the issues in ToR. The index of the final EIA-EMP report, must indicate the specific chapter and page no. of the EIA-EMP Report where the specific ToR prescribed by Ministry. Questionnaire related to the project (posted on MoEF&CC website) with all sections duly filled in shall also be submitted at the time of applying for EC.

(viii) Grant of ToR does not mean grant of EC.

(ix) The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.

(x) On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed ToRs (ToR proposed by the project proponent and additional ToR given by the MoEF&CC) have been complied with and the data submitted is factually correct (Refer MoEF&CC Office memorandum dated 4th August, 2009).

(xi) While submitting the EIA/EMP reports, the name of the experts associated with/involved in the preparation of these reports and the laboratories through which the samples have been got analysed should be stated in the report. It shall clearly be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and the rules made there under (Please refer MoEF&CC Office Memorandum dated 4th August, 2009). The project leader of the EIA study shall also be mentioned.

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(xii) All the ToR points as presented before the Expert Appraisal Committee (EAC) shall be covered.

6. The above ToR should be considered for the project proposed Integrated Common Hazardous Waste Treatment, Storage, Disposal & Recycling Facility at Industrial Growth Center (IGC), Maneri Village, Mandla District, Madhya Pradesh by M/s Ramky Enviro Engineers Limited, in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Public hearing is exempted for the project 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 industrial area.

7. The project proponent shall submit the detailed final EIA/EMP prepared as per ToR to the Ministry for considering the proposal for Environmental Clearance within 3 years as per the MoEF&CC O.M. No.J-11013/41/2006-IA.II(I) (P) dated 08.10.2014.

8. The consultants involved in preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/ Laboratories including their status of approvals etc. vide Notification of the MoEF&CC dated 19.07.2013.

9. The prescribed Terms of Reference (ToR) would be valid for a period of three years for submission of the EIA/EMP Reports.

10. This issues with the approval of the Competent Authority.

J. Bose

(Dr. Subrata Bose)
Scientist 'F'

Copy to:

The Member Secretary, Madhya Pradesh Pollution Control Board, E-5, Arera Colony, Paryavaran Parisar, Bhopal - 462 016.

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Annexure

7(d): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COMMON HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES (TSDFS) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

1) Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damages, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.

2) Submit the details of the road/rail connectivity along with the likely impacts and mitigative measures

3) Submit the present land use and permission required for any conversion such as forest, agriculture etc

4) Examine the details of transportation of Hazardous wastes, and its safety in handling.

5) Examine and submit the details of on line pollutant monitoring.

6) Examine the details of monitoring of Dioxin and Furan.

7) MoU for disposal of ash through the TSDF.

8) MoU for disposal of scrubbing waste water through CETP.

9) Examine and submit details of monitoring of water quality around the landfill site.

10) Examine and submit details of the odour control measures.

11) Examine and submit details of impact on water body and mitigative measures during rainy season.

12) Environmental Management Plan should be accompanied with Environmental Monitoring Plan and environmental cost and benefit assessment. Regular monitoring shall be carried out for odour control.

13) Water quality around the landfill site shall be monitored regularly to examine the impact on the ground water.

14) The storage and handling of hazardous wastes shall be as per the Hazardous Waste Management Rules.

15) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

16) 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.

17) 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.

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

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

20) 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/Incinerator

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