

F. No.10-67/2017-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

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

To,

Date: 11 May, 2018

Shri Anoop Shankar Madan, Director,
M/s Rollz Material Handling Systems Pvt. Ltd.
212A, Jyoti Shikhar Tower,
District Centre, Janakpuri,
New Delhi - 110058.

Email: rollz.projects@gmail.com
Phone: 011-45545688, 25528948

Subject: Proposed unit of Municipal Solid Waste Management at Khasra No.- 966, 992, 993, 1756, 1681, 1766, 1887, 1760 and 3103, at Village Nuh, Tehsil & District- Bharatpur, Rajasthan by M/s Rollz Material Handling Systems Pvt. Ltd. - Terms of Reference - reg.

Sir,

This has reference to your online proposal No. IA/RJ/MIS/71363/2017 dated 02.12.2017, submitted to this Ministry for seeking Terms of Reference (ToR) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986. The proposal is for grant of Terms of Reference to the project 'Proposed unit of Municipal Solid Waste Management at Khasra No.- 966, 992, 993, 1756, 1681, 1766, 1887, 1760 and 3103, at Village Nuh, Tehsil & District Bharatpur, Rajasthan by M/s Rollz Material Handling Systems Pvt. Ltd.

2. The project/activity is covered under category 'B' of item 7(i) 'Common Municipal Solid Waste Management Facilities' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at SEIAA/SEAC Level. However due to applicability of General Condition i.e. Protected Area, the project is appraised at Central Level.

3. The proposal for grant of Terms of Reference (ToR) to the project was considered by the Expert Appraisal Committee (Infra-2) in its 26th meeting held on 14 - 15 December, 2017 and 30th meeting held on 18 - 20 April, 2018.

4. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting are as under:-

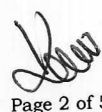
- (i) The proposed project is situated at Khasra Nos. 966, 992, 993, 1756, 1681, 1766, 1887, 1760 and 3103, Village Noh, Tehsil & District Bharatpur (Rajasthan). The project site area is 2.0 hectare, which lies about 5 km east of Bharatpur town.

- (ii) The proposed project is new project at already converted land for municipal solid waste dumping site of Nagar Nigam Bharatpur. The proposed land an area of 2.0 hectare for municipal Solid waste management is a govt. land of Nagar Nigam, Bharatpur which has been granted to Rollz Material Handling System Pvt. Ltd on lease vide letter no. N.N.B./2016-17/858 dated 18.10.2016 and N. N. B. / 2017-18/ 8013 dated 17.11.2017.
- (iii) The processing and disposal plant has been designed on latest technology involving accelerated and complete composting using thermophilic enzymes. Density separation along with above technology enables effective and efficient segregation of compost, RDF combustibles, recyclables and inert comprising of construction and demolition waste. The construction and demolition waste so separated is further planned to be converted into construction material thereby moving towards zero disposal in the landfill.
- (iv) Total power requirement for process will be about 200 kW. Two DG sets (40kVA & 25 kVA) will be provided for emergency power backup.
- (v) The estimated project cost is Rs 8.0 Crore. The capital investment of Land & site development, Civil works, Plant & Machinery and Particulars of interface equipment.

5. As per the recommendation of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords ToR to the above project for preparation of the Environmental Impact Assessment (EIA) Report and Environmental Management Plan (EMP) with the following specific and general conditions in addition to Standard ToR provided at Annexure -1:

Specific Guidelines

- (i) Importance and benefits of the project.
- (ii) A sensitivity analysis of the site shall be carried out as per the MoEF&CC criteria and form part of the EIA report.
- (iii) The EIA would specifically address to the impact of the project on the ambient air quality of the NCR and draw up a management plan integrating it with any measures proposed by the Government.
- (iv) The impact of the project proposals on the nearby Air Force station shall be studied along with a discussion on whether the activity is allowed in the vicinity of the Air Force station.
- (v) The EIA would include a separate chapter on the conformity of the proposals to the Municipal Solid Waste Management Rules, 2016 and the Construction and Demolition Waste Management Rules, 2016 including the sitting criteria therein.
- (vi) An integrated plan of operation including the segregation of wastes at the household level and its transportation to the site shall be submitted. List of waste to be handled and their source along with mode of transportation.



- (vii) Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided.
- (viii) The EIA would also examine the impacts of the existing land fill site and include a chapter on the closure of the existing site including disposal of accumulated wastes and capping.
- (ix) The EIA would give complete details of the incinerator/power plant, its impacts and the status of Environment Clearance.
- (x) The project proponents should consult the Municipal solid waste Management manual of the Ministry of Urban Development, Government of India and draw up project plans accordingly.
- (xi) Waste management facilities should maintain safe distance from the nearby pond.
- (xii) Methodology for remediating the project site, which is presently being used for open dumping of garbage.
- (xiii) Layout maps of proposed solid waste management facilities indicating storage area, plant area, greenbelt area, utilities etc.
- (xiv) Details of air emission, effluents generation, solid waste generation and their management.
- (xv) Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract).
- (xvi) Process description along with major equipments and machineries, process flow sheet (quantitative) from waste material to disposal to be provided.
- (xvii) Hazard identification and details of proposed safety systems.
- (xviii) Details of Drainage of the project upto 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.
- (xix) Details of effluent treatment and recycling process.
- (xx) Action plan for measures to be taken for excessive leachate generation during monsoon period.
- (xxi) Detailed Environmental Monitoring Plan.
- (xxii) Report on health and hygiene to be maintained by the sanitation worker at the work place.
- (xxiii) Public hearing to be conducted and issues raised and commitments made by the project proponent on the same should be included in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.

- (xxiv) 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.
- (xxv) Certificate from the competent authority in the Forest Department that the proposed activity is allowed within the Eco-sensitive zone as per the ESZ notification and that it will not adversely impact the flight pattern or habitability of the avifauna and biodiversity of the National park
- (xxvi) 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 far 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 mentioned 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 the 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.

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

6. The above ToR along with Public Hearing prescribed by the Expert Appraisal Committee (Infrastructure - 2) should be considered for preparation of EIA/EMP report for the project 'Municipal Solid Waste Management at Khasra No.- 966, 992, 993, 1756, 1681, 1766, 1887, 1760 and 3103, at Village Nuh, Tehsil & District-Bharatpur, Rajasthan by M/s Rollz Material Handling Systems Pvt. Ltd.', 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. The draft EIA/EMP report shall be submitted to the State Pollution Control Board for public hearing. The issues emerged and response to the issues shall be incorporated in the EIA report.

7. The project proponent shall submit the detailed final EIA/EMP prepared as per ToRs 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 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.


(Kushal Vashist)
Director

Copy to:

The Member Secretary, Rajasthan Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongri, Jaipur, Rajasthan 302004.

Annexure - I

7(i): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR COMMON MUNICIPAL SOLID WASTE MANAGEMENT FACILITY (CMSWMF) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

- (i) The project should be designed based on the population projections as by Master Plan.
- (ii) 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.
- (iii) Examine and submit details of alternative technologies viz. RDF shall also be evolved.
- (iv) Examine and submit details of storm water/ leachate collection from the composted area.
- (v) Examine and submit details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.
- (vi) Examine and submit details of the odour control measures.
- (vii) Examine and submit details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.
- (viii) Submit the criteria for assessing waste generation. Any segregation of hazardous and bio-medical wastes.
- (ix) 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.
- (x) Submit a copy of the land use certificate from the competent authority.
- (xi) NOC from local or nearest airport within 20 km and any flight funnel restrictions.
- (xii) 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.
- (xiii) 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.
- (xiv) Examine and submit the details of impact on the drainage and nearby habitats/settlements (surroundings).
- (xv) Examine and submit the details of surface hydrology and water regime and impact on the same.
- (xvi) 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).



- (xvii) Submit a copy of detailed plan of waste management.
- (xviii) Submit the details of sanitary land fill site impermeability and whether it would be lined, if so details thereof.
- (xix) Examine and submit the details of impact on environmental sensitive areas.
- (xx) Examine and submit the details of rehabilitation/compensation package for the project effected people, if any.
- (xxi) Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.
- (xxii) 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.
- (xxiii) 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.
- (xxiv) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- (xxv) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out
- (xxvi) 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".

