

ACTIVITY 7(i)- COMMON MUNICIPAL SOLID WASTE MANAGEMENT FACILITY

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. Project Details

- i. Importance and benefits of the project.
- ii. The project should be designed based on the population projections as by Master Plan and in conformity to the Municipal Solid Waste Management Rules 2006 as amended from time to time.
- 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 including leachate treatment options proposed.
- v. 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.
- vi. Submit the details of sanitary land fill site, impermeability and whether it would be lined, if so details thereof.
- vii. 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.
- viii. Details of various waste management units with capacities for the proposed project. Details of utilities indicating size and capacity to be provided.
- ix. Details of storage and disposal of pre-processing and post-processing rejects/inerts.
- x. List of proposed end receivers for the rejects/inerts should be provided. MoUs to be submitted in this regard.
- xi. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- xii. NOC from local or nearest airport within 20 km and any flight funnel restrictions.
- xiii. The project proponents should consult the Municipal solid waste Management manual of the Ministry of Housing and Urban Affairs, Government of India and draw up project plans accordingly.

- xiv. Details of man-power requirement (regular and contract).
- xv. Process description along with major equipment's and machineries, process flow sheet (quantitative) from waste material to disposal to be provided.

II. Land Environment

- xvi. 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.
- xvii. Submit a copy of the land use certificate from the competent authority.
- xviii. 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.
- xix. A sensitivity analysis of the site shall be carried out as per the CPCB site selection criteria and form part of the EIA report.
- xx. Post project reclamation management program with financial allocation.

III. Environmental Monitoring and Management

- xxi. Examine and submit details of monitoring of water quality around the landfill site. Water analysis shall also include for nitrate and phosphate.
- xxii. Examine and submit details of the odour control measures.
- xxiii. 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.
- xxiv. 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).
- xxv. Submit Environmental Management Plan and Environmental Monitoring Plan with costs and parameters.
- xxvi. Examine and submit the details of impact on environmental sensitive areas.

- xxvii. 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.
- xxviii. Possible carbon footprint contribution from each activities and mitigation measures proposed shall be included as part of Environment Management Plan.

IV. Water Environment

- xxix. Examine and submit details of impact on water bodies/rivers/ ponds and mitigative measures during rainy season.
- xxx. Examine and submit the details of surface hydrology and water regime and impact on the same.

V. Water Management

- xxxi. Requirement of water with source of supply, status of approval, water balance diagram.
- xxxii. Details of effluent treatment and reuse and recycling process.
- xxxiii. Action plan for measures to be taken for excessive leachate generation during monsoon period.
- xxxiv. Pre-project monitoring of ground water quality is required.

VI. Waste Management

- xxxv. Submit the criteria for assessing waste generation. Any segregation of hazardous and bio-medical wastes. Submit a copy of detailed plan of waste management.

VII. Drainage

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

I. Energy Requirement

- i. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project.

- ii. Details of the adequate power back up facility, to meet the energy requirement in case of power failure from the grid.

VIII. Disaster Management Plan

- i. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- ii. Risk and hazard identification and details of proposed mitigation measures.

IX. Socio-Economic Environment

- xxxviii. Examine and submit the details of rehabilitation/compensation package for the project effected people, if any.
- xxxix. 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.
- xl. Report on health and hygiene to be maintained for the sanitation workers at the work place.

X. Court Cases

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

XI. Miscellaneous

- xlii. 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>".