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F. No. J-13012/01/2022-IA.I (T)
Government of India
Ministry of Environment, Forest & Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhavan
2nd Floor, Vayu Wing
Aliganj, Jor Bagh Road
New Delhi - 110003

To,

Dated: 29th June, 2022

M/s Delhi Municipal Solid Waste Solutions Ltd (DMSWSL)
13th Floor, Ramky Grandiose,
Ramky Towers, Gachibowli,
Hyderabad (Telangana)

Sub: Expansion of Waste to Energy Plant from 24 MW to 60 MW by M/s. Delhi Municipal Solid Waste Solutions Ltd (DMSWSL) at Tehsil Narela, District North West (Delhi) - Terms of Reference - reg.

Sir,

This has reference to your online proposal no. IA/DL/THE/271398/2022 dated 5th May, 2022 submitted to the Ministry for grant of terms of reference to the project cited in the subject.

2. The Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for expansion of Waste to Energy Plant from 24 MW to 60 MW in an existing area of 40.46 Ha by M/s. Delhi Municipal Solid Waste Solutions Ltd (DMSWSL) at Tehsil Narela, District North West (Delhi).
3. Environment Clearance was granted by MoEF vide letter dated 8th May, 2012 to the project for Waste to energy Plant of capacity min 36 MW at Integrated Waste Management Facility located in the same premise. The unit is in operation at the capacity of 24 MW with valid CTO.
4. Thermal Power Plants are listed in S.N. 1(d) of Schedule of Environment Impact Assessment (EIA) Notification under Category 'A' and to be appraised at Central level in the Ministry.
5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10 km distance of the project site.
6. The proposed expansion of Waste to Energy plant will further strengthen the Solid Waste Management infrastructure in Delhi at the same time it will also contribute in energy recovery.
7. The proposal was considered by the Expert Appraisal Committee (EAC) for Thermal Power Projects in its 25th EAC meeting held on 31st May, 2022.



8. The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

- (i) DMSWSL has developed the Integrated MSW Management Facility (IMSWF) at the identified site by Municipal Delhi Corporation. DMSWSL initially established IMSWF with the capacity of 4000 TPD. Further A standalone RDF based Waste to Energy Plant of 24 MW with 1200 TPD of RDF as fuel which will be drawn from the existing facility. Now DMSWSL has proposed to utilise the leftover 1800 TPD of RDF by installing another 36 MW WTE cumulatively 60 MW.
- (ii) The main objective of the project to collect 100% of MSW generated in the concessionary areas and to dispose-off the same through a most scientific and productive disposal through a combination of processes such as segregation units consisting of Composting plant for biodegradable material, Refuse Derived Fuel (RDF) plant and Waste to Energy for combustible material and secured Landfill for inert disposal.
- (iii) Salient features of the project

S. No.	Parameters	Description
1	Name of the project	Expansion of Standalone RDF based Waste to Energy Power Plant from 24 MW to 60 MW at Integrated Municipal Solid Waste Management Facility (IMSWMF) - at Pocket N1, Sector 5, Bawana Industrial Area, Narela Bawana, North West Delhi, Delhi
2	Project proponent	M/s. Delhi Municipal Solid Waste Solutions Ltd (DMSWSL)
3	Plant capacity	Existing-24MWwith1200TPD; Proposed-36MWwith1800 TPD
4	Total plot area	100 Acres(40.46Ha)
	Land demarcated for WtE	69,750m ²
	WtE operation	34,875m ²
S. No.	Parameters	Description

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	WtE Proposed	Approx.34.875m ²
5	Net water requirement	350m ³ /day
6	Source of water	Delhi Jal Board and Industrial Waste Waster of adjacent Pragati Power Plant
7	Man power requirement	250nos.
8	Power requirement	Approx.5.4 MW (15%oftotalpowergeneration)
9	Nearest Habitation	Sanothvillage-1.34km
10	Nearest WaterBody	YamunaCanal-AdjacenttoSite
10	Nearest Railway Station	HolambiKalan-3.2km
11	Nearest Airport	IndiraGandhiInternationalAirport-25km
11	Nearest Highway	NationalHighway1-6.5km
12	Total project cost	Rs848Crores

(iv) Earlier, the public hearing was conducted on 14.05.2010 for the activity of Integrated Municipal Solid waste management Facility.

(v) The raw material for the proposed project is municipal solid waste, which is having the certain calorific value suitable for power generation. The total MSW of the proposed project concessionary areas is getting scientifically segregated, treated and disposed at the site.

(vi) Regular water demand is estimated to be 350 KLD, source of the water is industrial Waste water of adjacent Pragati Power Plant and Delhi Jal Board Quantity of wastes to be generated (liquid and solid) and scheme for their management/disposal. The wastewater as liquid waste of 105 KLD will be generated which includes cooling tower blow down, boiler blow down and DM regeneration and Leachate. The generated leachate will be treated in the existing LTP, blow-down water from ancillary cooling tower, boiler blow down and WTP Rejects collection tank and utilised in the bottom ash quenching and in APCDs.

(vii) The proposed project is developing within the existing IMSWF and hence there is no rehabilitation and resettlement is envisaged.

9. The sectoral Expert Appraisal Committee considered the proposal in its 12th, 17th

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and 25th EAC meetings held on 31st May, 2022. The EAC after detailed deliberation on the information submitted and as presented during the meeting recommended the proposal for grant of Standard ToR with public consultation (without public hearing) for conducting EIA study for expansion of Waste to Energy Plant from 24 MW to 60 MW in an existing area of 40.46 Ha by M/s. Delhi Municipal Solid Waste Solutions Ltd (DMSWSL) at Tehsil Narela, District North West, Delhi with under the provisions of EIA Notification, 2006, and as amended along with the certain additional/specific ToR.

10. Based on recommendation of EAC, the Ministry is hereby accords approval for Standard ToR with public consultation (without public hearing) for conducting EIA study to the project for expansion of Waste to Energy Plant from 24 MW to 60 MW in an existing area of 40.46 Ha by M/s. Delhi Municipal Solid Waste Solutions Ltd (DMSWSL) at Tehsil Narela, District North West (Delhi), under the provisions of EIA Notification, 2006 and as amended along with the following additional/specific ToR:

[A] Environmental Management and Biodiversity Conservation

- i. Baseline Study Heavy metals in Ground water, Surface water and soil to be carried out and incorporated in EIA/EMP report.
- ii. Details pertaining to water source discharge treatment should be provided.
- iii. Zero Liquid Discharge plan shall be submitted.
- iv. Status of green belt (33% of total project cover area) across the periphery of the project boundary shall be provided with a video clip.
- v. Status of Ash Utilization of last 5 years, action plan for 100% ash utilization along with timeline need to be submitted.
- vi. PP shall submit action plan for using treated Sewage/Domestic wastewater for its operations.
- vii. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.

[B] Disaster Management

- viii. Disaster Management Plan shall be prepared and incorporated in EIA/EMP report.

[C] Miscellaneous

- ix. Public Consultation shall be carried out by uploading the draft EIA/EMP report on Pollution Control Board's website, District collector website/office and publishing notice in newspapers (both in Hindi and English) for seeking comments from the general public. The comments received so shall be addressed in the final EIA report along with time bound action plan and financial budget allocation.
- x. PP shall submit letter from State Pollution Control Board that the project area does not come under Critically or Severely Polluted Areas.
- xi. Certified compliance report of previous EC to be submitted certified by Regional office of the MoEF&CC.
- xii. PP shall submit details of court cases and its status for the project.
- xiii. The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the


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monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples.

xiv. Arial view video of project site shall be recorded and to be submit.


11. You are requested to kindly submit the final EIA/EMP prepared as per TORs to the Ministry for considering the proposal for environmental clearance within 4 years as per the extent rule of the Ministry notified time to time.

12. The consultants involved in the 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.


29.6.2022
(Yogendra Pal Singh)
Scientist 'E'

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R. K. Puram, New Delhi - 110 066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032.
4. The Deputy Inspector General of Forests, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur, A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur - 304 002, Rajasthan.
5. The Chairman, Delhi Pollution Control Committee, 6th floor, C wing, Delhi Secretariat, I P Estate, Delhi - 110 002.
6. Guard file/Monitoring file
7. Website of MoEF&CC.


29.6.2022
(Yogendra Pal Singh)
Scientist 'E'