Government of India
Ministry of Environment, Forest and Climate Change
IA Division
(Thermal Projects)
****

सत्यमेव जयते

Minutes of AGENDA FOR 25th MEETING OF EXPERT APPRAISAL COMMIT TEE (THERMAL SECTOR), SCHEDULED TO BE HELD DURING 27TH MAY, 2025 THROUGH PHYSICAL MODE. meeting Thermal Projects held from 27/05/2025 to 27/05/2025

Date: 03/06/2025

MoM ID: EC/MOM/EAC/828412/5/2025

Agenda ID: EC/AGENDA/EAC/828412/5/2025

Meeting Venue: Narmada Hall, MOEF&CC, New Delhi

Meeting Mode: Physical

Date & Time:

27/05/2025	10:34 AM	05:30 PM

1. Opening remarks

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.), Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of members who participated in the meeting is at **Annexure – I**. The Standard/Generic ToR conditions shall be system generated through the PARIVESH Portal.

[The main PDF of MoM is enclosed at Page no. 110 - 169]

2. Confirmation of the minutes of previous meeting

Confirmation of the Minutes of the 24th Meeting of the EAC (Thermal): The minutes of the 24th meeting of the EAC (Thermal) held on 29/04/2025 has been confirmed by the EAC as uploaded on Parivesh.

3. Details of proposals considered by the committee

Day 1 -27/05/2025

3.1. Agenda Item No 1:

3.1.1. Details of the proposal

Proposed Waste to Energy Project 50 MW, DSIIDC Industrial Area, sector-5, Bawana, Delhi-110039 by M/s Jin dal Urban Waste Management (Bawana) Limited. by **JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED** located at **NORTH WEST,DELHI**	
Proposal For	Fresh EC

Proposal No	File No	Submission Date	Activity (Schedule Item)
IA/DL/THE/536932/2025	J-13012/04/2023-IA.I (T)	12/05/2025	Thermal Power Plants (1(d))

3.1.2. Project Salient Features

Agenda No 25.1

25.1 Proposed Waste to Energy Thermal Power Project of capacity 30 MW by **M/s Jindal Urban Waste Management (Bawana) Limited** located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, **District North Delhi, Delhi – Environment Clearance – regarding.**

[Proposal No. IA/DL/THE/536932/2025; F. No. J-13012/04/2023-IA.I (T)]

25.1.1: M/s Jindal Urban Waste Management (Bawana) Limited has made an online application vide proposal number IA/DL/THE/536932/2025 dated 12/05/2025 along with copy of EIA/EMP report, CAF (Part A, B & C) and sought for Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project/activity is listed at item no. 1(d) Thermal Power Plants of the schedule of the EIA Notification, 2006 and falls under Category 'A'. Further, the proposed project/activity also attracts the general condition of the EIA Notification, 2006 as the project site is located at a distance of 4.48 KM from Delhi-Haryana State boundary in NNW direction.

Name of the EIA Consultant: M/s Mantec Consultants Pvt. Ltd [S. No. 144, List of ACOs with their Certificate / Extension Letter no NABET/EIA/23-26/RA 0305_Rev.01 Valid up to April 20, 2026].

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

25.1.2: The instant proposal of M/s Jindal Urban Waste Management (Bawana) Limited is for setting up of Waste to Energy (WTE) Thermal Power Project with a capacity 30 MW at Delhi State Industrial and Infrastructure Development Corporation Limited (DSIIDC) Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi.

25.1.3: The details of the Terms of Reference (ToR) obtained for the above project for prearation of EIA/EMP report is furnished as below:

Proposal No with Date	Consideration	Details	Date of accord	ToR Validity
IA/DL/THE/435160/2023dated 11/08/2023	2nd meeting of EAC– Thermal held on 31/10/2023	Terms of Reference	10/01/2024	4 years

25.1.4: Environmental site settings:

S. No.	Particulars	Details	Remarks
1.	Total Land	15.0 Acres (or) 6.07 Ha – Government Land	Land Use: Industrial Purpose Locate

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td></td><td>d at DSIIDC Industrial Area, Sector-5, Bawana, Delhi</td></tr>
<tr><td>2.</td><td>Land Use breakup</td><td><table>
<tr><th>Details</th><th>Area Breakup (Acres)</th><th>Percentage (%)</th></tr>
<tr><td>TPP Site</td><td>7.84</td><td>52.27</td></tr>
<tr><td>Admin Office & Canteen</td><td>0.3</td><td>2.0</td></tr>
<tr><td>Greenbelt Area</td><td>6.0</td><td>40.0</td></tr>
<tr><td>Ot</td><td>0</td><td>5.7</td></tr>
</table></td><td>• Land Use: Industrial Purpose.
•At DSIIDC Industrial Area, Sector-5, Bawana, Delhi-110039.</td></tr>
</table>

S. No.	Particulars	Details	Remarks
		<table><tr><td>hers</td><td>.86</td><td>3</td></tr><tr><td>Total</td><td>15 acres (or) 6.07 Ha</td><td>100%</td></tr></table>	
3.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 20/02/2025	The land requirement for the project is 6.07 Ha (or) 15 acres which is a Government land.	The land has been provided by Municipal Corporation of Delhi (MCD) to M/s. Jindal Urban Waste Management (Bawana) Limited vide concession agreement dated 27/02/2025.

S. No.	Particulars	Details	Remarks
4.	Existence of habitation & involvement of R&R, if any.	**Study Area:** Habitation — Distance JJ Colony — Within 1 Km Iradat Nagar alias Naya Bans — Within 05 Km Holambi Khurd Holambi Kalan Sanoth Ghoga Khera Khurd	• The proposed project is within the DSIIDC Industrial Area, Bawana • The land for the project is allocated by the MCD. • It does not involve R&R issue.
5.	Lat	Plant Site:	-

S. No.	Particulars	Details	Remarks
	itude and Longitude of all corners of the project site.	Point / Lat. / Long. 28°47‘41.49"N 77°3’42.51"E 28°47’46.08"N 77°3’36.54"E 28°47’53.53"N 77°3’43.80"E 28°47’49.56"N 77°3’48.06"E 28°47’47.84"N 77°3’47.27"E 28°47’47.12"N 77°3’47.43"E 28°47’46.70"N, 77°3’47.84"E	
6.	Elevation of the project site	The project site elevation varies from 248 m to 236 m above mean sea level (msl)	-
7.	Involvement of Forest land if any	No	-
8.	Water body (Rivers, Lake	•A natural nallah is passing through the project site. •Western Yamuna Canal is located at approx. 32 meters from the proje	No perennial river passing, only regulated canal passing by nea

S. No.	Particulars	Details	Remarks
	s, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area	ct site in South-West direction. **<u>Protection measures:</u>** • MSW will be stored in a closed pit to prevent cross-contamination • Fly ash and bottom ash securely stored in closed silos • Fuel oil tanks equipped with dykes and spill collection pits • Nallah passing through the site will not be diverted • Development of a green belt along the surrounding nallah/stream • Stormwater from open storage areas will be routed through pits for effective silt collection	r to the project site.
9.	Existence of ESZ/ ES	There is no National Park, Wildlife Sanctuary etc. within study area.	-

S. No.	Particulars	Details	Remarks
	A/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area		
10.	Archaeological sites, monume	None	-

S. No.	Particulars	Details	Remarks
	nts/ historical temples, etc.		
11.	Involvement of Critically Polluted Area/ Severely Polluted area as per 2018 CEPI score	No	-

25.1.5: The salient features of the proposed WTE project is given as below:

The technology proposed to be employed for this WTE project is RDF combustion based reciprocating forward feed grate technology. The power plant constitutes Material Recovery Facility (Pre-sorting), RDF fuel Pit, Incinerators, Boilers, and Steam Turbine Generators with power generation total capacity of 30 MW±6MW. Air cooled condensers (ACC) are to be used in lieu of water-cooled condenser (WCC). The rejects/generated bottom ash will be processed in the bottom ash processing plant. After the processing materials which are not recyclable for further processing will be sent to Sanitary Landfill. Fly ash will be sent to the secured landfills site designated by MCD. The air pollution control system will consist of Flue Gas Treatment System which includes Adsorption of acidic components and other pollutants by lime and Activated carbon in turbo reactors and filtration of dust particles through bag

filters. Wastewater & leachate generated from the WTE plant will be treated in the Leachate Treatment Plant. The treated wastewater will be recycled to DM plant and rejected water for quenching of bottom ash. The green belt area will be developed in an area of 6 acres all along the periphery of the project site.
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- Total MSW feed : 3000 TPD
- Power Plant capacity : 30 MW ± 6 MW
- RDF Processing Capacity : 700 TPD per unit (2x700 TPD for two units)
- Auxiliary power consumption : 10 to 15% of total power generation
- Saleable Power to Grid : 85 to 90%
- Calorific Value of Fuel : 1600 kcal/kg and above based on RDF quality
- Export grid voltage : 66 kV
- Grid Interconnection : DTL Bawana Substation (220/66 kV)
- Furnace and boiler type
    - Upward grate system
    - 99.9% Combustion rate (less than 10 ppm of CO)
    - Low NOX generation design – secondary air control
    - Flue gas Cooling system
    - Hydrated lime dosing system for SO_2 control
    - Stack of 60 meter height

The description of process involved in the generation of electricity from municipal waste is given below:

- MSW receiving
- Pre Segregation and preparation of RDF
- Heat Recovery & Steam Generation in the boiler
- Power Generation & exporting to grid
- Flue Gas Cleaning System
- Leachate Treatment

Overall mass balance

Description	Quantity (Tons Per Day)	% fraction
Total Waste for processing	3000 ton	100 %
Green Waste by bio-methanation process	600 ton	20 %
Total MSW Processed for RDF	2,400 ton	80 %
Total RDF to storage	1,400 ton	58 %
Inerts removal in processing	295 ton	12%
Leachate recovered	357 ton	15 %
Moisture	343 ton	14 %
Compost	4 ton	0.17 %
Recyclables	2 ton	0.08 %

Note: 20 to 25 percentage variations on the MSW feed quality are envisaged.

25.1.6: Fuel requirement: The details of the municipal solid waste requirement for the proposed project along with its source and mode of transportation is given as below:

Details	Fuel requirement (TPD)	Source	Distance from site (Kms)	Mode of Transportation	Linkage document
1.	3000 Municipal Solid Waste	Municipal Corporation of Delhi	Approx. 12 Kms	Road	Concession Agreement with MCD

25.1.7: Water requirement: The water requirement for the proposed project during operation phase is estimated as 625 m^3 /day and approx. 7 m^3/day of fresh water will be required for domestic purposes which will be met by the DJB. Requirement of water for industrial usage will be met from the blowdown reject water from the Pragati Power Corporation Limited (PPCL) or treated sewage from STP, DJB. There will be no use of ground water in the process or for domestic use for the proposed project.

Operation Phase:

- Fresh water – 7 m^3/day
- Blowdown reject water from the PPCL/Treated sewage from STP, DJB – 625 m^3/day
- Treated Leachate water – 357 m^3/day

25.1.8: Power requirement: The power requirement during construcytion shall be met from the nearest construction power source i.e., Tata Power Delhi Distribution Limited (TPDDL). During operation phase, power consumption shall be 10–15 % of the generated power. A 750 kVA DG set is envisaged which will be used in case of grid failure.

25.1.9: Baseline Environmental Studies with proposed mitigation measures

Period	March, 2023 to May, 2023	Additional Study (if any)
AAQ parameters at 8 Locations (min and max)	$PM_{2.5}$ = 46.0 To 228.0 µg/m^3 PM_{10} = 77.0 To 380.0 µg/m^3 SO_2 = 5.0 to 18.0 µg/m^3 NO_x = 14.0 To 32.0 µg/m^3 CO = 0.52 To 0.84 mg/m^3	-
Incremental GLC lev	PM = 1.604 µg/m^3 (Level at 0.96.km in South Direction) SO2 = 6.418 µg/m^3 (Level at 0.96.km in South Direction) NO_x = 12.83	-

Period	March, 2023 to May, 2023	Additional Study (if any)
el	7 µg/m^3 (Level at 0.96.km in South Direction) **<u>Proposed mitigation measures</u>** • Presence of PVC waste is significant, hence the release of HCl, Dioxins and furans will be less significant (below 0.1 ng TEQ/Nm^3) • Hydrated lime and activated carbon injection in the post-	

Period	March, 2023 to May, 2023	Additional Study (if any)
	combustion stage to control SO_2 and HCl • 130% design capacity of PTFE Bag Filter House, • PM, SO_2, and NOX emissions will be maintained within the levels of 50 mg/Nm^3, 200 mg/Nm^3, and 400 mg/Nm^3, respectively, as	

Period	March, 2023 to May, 2023	Additional Study (if any)
	per SWM Rules, 2016 norms • Continuous Emission Monitoring System (CEMS) will be installed on the stack • CAAQMS will be installed at the site • Provision for Selective Non-catalytic Reduction for Nox Control	

Period	March, 2023 to May, 2023	Additional Study (if any)
	<u>Odour control measures</u> • Negative Pressure Ventilation in the MSW collection pit • Ventilation air from MSW pit will be fired in the boiler • Fogging unit/mist system & herbal solution spray • Odour assessment will be undertaken during the operational phase as per EN 16841-1 standards	
Ground water quality at	pH: 7.11 to 7.58, Temperature- 19 degree C to 22 degree C, Turbidity- 1.0 to 1.6 NTU, TDS-232.0 to 698.0 mg/l, Alkalinity as CaCO3-188 to 232.0 mg/l, Total Hardness: 13	-

Period	March, 2023 to May, 2023	Additional Study (if any)
8 locations	4 to 250 mg/l, Mercury-<0.0005 mg/l, Selenium-<0.002 mg/l, Zinc-<0.01 mg/l, Chlorides: 62.00 to 84.00 mg/l, Fluoride: 0.57 to 0.81 mg/l, Sulphate-44.0 to 58.00 mg/l, Nitrate-10.20 to 13.80 mg/l, Cyanide-<0.01 mg/l, Free Residual Chlorine- <0.1 mg/l, Phenolics-<0.001 mg/l, Calcium-56.20 to 72.0 mg/l, Aluminium-<0.03 mg/l, Total Arsenic-<0.002 mg/l, Cadmium-<0.001 mg/l, Boron-<0.05 mg/l, Total Chromium-<0.002 mg/l, Iron -0.0 to 0.01 mg/l, Copper-<0.002 mg/l, Lead-<0.002 mg/l, Manganese-<0.02	

Period	March, 2023 to May, 2023	Additional Study (if any)
	mg/l, Faecal Coliform-<2 MPN/100 ml.	
Surface water quality at 8 locations	pH-7.02 to 7.34,-TDS-233.0 to 311.0 mg/L, BOD-10.0 to 20.0 mg/L. DO-5.50 to 6.40 mg/L, Total Hardness as CaCO3 130.0 to 196.0 mg/L. Temperature – 19.0 degree C to 21.0 degree C TSS-2.0 to 6.0 mg/l, Chloride-28.0 to 60.0 mg/l, Fluoride-0.33 to 0.67 mg/l, Sulphate- 26.0 to 46.0 mg/l, Nitrate- 7.20 to11.50 mg/l, Cyanide-<0.01 mg/l, Phenolic Compounds-<0.001 mg/l, Total Arsenic-<0.002 mg/l, Calcium-102.0 mg/l to 142.0 mg/l, Magnesium-28.0 to 56.0 mg/l, Cadmium-<0.001 mg/l, Total Chromium-<0.002 mg/l, Iron- 0.01 to 0.01 mg/l, Copper-	

Period	March, 2023 to May, 2023	Additional Study (if any)
	<0.002 mg/l, Lead-<0.002 mg/l, Manganese-<0.02 mg/l, Mercury-<0.0005 mg/l, Selenium-<0.002 mg/l, Zinc-<0.01 mg/l, Total Coliform- 490.0 to 1770.0 MPN/100 ml	
Effluent generation and details of treatment	Effluent sent to CMB – 382 m^3/day Leachate (357 m^3/day & sewage generation 3m^3/day) – 360 m^3/day 1. Leachate 2. Cooling Tower Blow down 3. Boiler Blowdown 4. Other industrial effluents Mode of treatment 1. Leachate Treatment Plant through RO 2. Central Monitoring Basin (CMB) Mode of reuse 1. 100% reuse of treated effluent & leachate	-

Period	March, 2023 to May, 2023	Additional Study (if any)
	2. Treated water for FGCS & gas cooling, dust suppression and ash quenching 3. Green belt development 4. Domestic wastewater will be used as seed for LTP Zero liquid discharge will be adopted.	
Noise levels Leq (Day and Night)	42.6 dB (A) to 54.8 dB (A) for the day time and 36.8 dB (A) to 42.6 dB (A) for the Night time. Control measures: • Acoustic walls for the control room, office rooms, and canteen will be provided	

Period	March, 2023 to May, 2023	Additional Study (if any)
	• A mandatory PPE policy will be adopted in high-noise zones such as TG rooms • Audiometric tests for all persons working at high noise zones	
Traffic assessment study	The traffic study was performed on NH-344 M which is connected to project site and traffic load NH-344 M was found to be moderate as per the respective road classification. The	-

Period	March, 2023 to May, 2023	Additional Study (if any)
findings	condition of the existing road is good.	
Soil Quality at 8 Locations	Bulk density: 1.49 to 1.72 gm/cm^3; pH: 6.22 to 7.66; Electrical conductivity (EC); 238 to 324 µmhos/cm; Calcium content: 2.59 to 3.34 mg/100 gm; Sodium: 3.7 to 6.1 mg/100 gm; Potassium: 191.74 to 231.62 kg/ha; Nitrogen: 311.58 to 366.46 kg/ha; Phosphorous: 13.89 to 19.94 kg/ha; Cation Exchange Capacity (CEC): 6.64 to 10.72 meq/100gm; Organic Matter: 1.23% to 1.74%	-
F	61 Flora and	-

Period	March, 2023 to May, 2023	Additional Study (if any)
lora and fauna	56 Fauna were found in the study area. As per the Wildlife Protection Act 2022, **Three Schedule-I**, species • *Pavo cristatus*, • *Herpestes javanicus* and • *Accipiter badius* are found in the study area and Wildlife Conservation Plan has been prepared and submitted to DFO for their approval. **Rs 54 Lakhs** has been allocated for the Conservation Plan.	
Hydrogeolgyst	• Bawana's aquifer systems predominantly consist of shallow alluvial aquifers. • The hydrogeological setup includes unconfined to semi-confined aq	M/s Mantec Consultants Pvt.

Period	March, 2023 to May, 2023	Additional Study (if any)
udy	uifers, primarily composed of sand, silty sand, and kankar horizons. • The depth of water level during Pre-Monsoon ranges from 1.25 mbgl to 66.01 mbgl. • The depth of water level during Post Monsoon ranges from 0.62 mbgl to 66.75 mbgl. • The source of water is reject blowdown water from the M/s Pragati Power Corporation Limited • No groundwater will be withdrawn from any natural water bodies. • Hence, there will be no impact on ground water regime. • A total of 5,085.3 m³ per ann	Ltd., Noida

Period	March, 2023 to May, 2023	Additional Study (if any)
	um will be harvested and supporting sustainable water management. Rain water havesting Total Built-up Area: 7,539 m^2 Annual rainfall: 674.5 mm/year Annual rainfall: 0.67545 m Roof yield per annum: 5,085.3 m^3/year	
Impact study	• The project is based on ZLD concept and there will be no effluent discharge from the plant. • Since, there is n	M/s Mantec Consultant

Period	March, 2023 to May, 2023	Additional Study (if any)
on biodiversity and aquatic ecology	o major aquatic system in the area, the chances of impact on aquatic ecology would be insignificant. • Minimum 40% greenbelt / green cover of the total project area will be developed as per CPCB guidelines. Plantation will be done in consultation with the local Forest Department. • The excavated soil from the project site should be kept separately and can be used to boost restoration and green plantation activity. • Planting fruit bearing tree for avifauna and other faunal species. • Western Yamuna Canal is flo	s Pvt. Ltd., Noida

Period	March, 2023 to May, 2023	Additional Study (if any)
	wing adjacent to the project site. Utmost precaution should be taken to ensure no leakage or discharge of effluent takes place. •All vehicles inside the project site should maintain speed limit and will not blow horn unless it is required. •Awareness will be given to workers about the importance and conservation of terrestrial ecology and biodiversity. •Extensive plantation should be undertaken in an around the project site.	
Risk asse	•Only flammable material is diesel/LDO for operations for 25 KL whi	M/s Mantec

Period	March, 2023 to May, 2023	Additional Study (if any)
ssment study	ch will be provided with dykes and firefighting systems. • Fire water pumps shall be installed along with adequate water storage capacity. • Ensure Inspection and Maintenance of Pipelines of Boiler and other related equipments/instruments/connections like safety device, water level indicator, flanges etc. to avoid boiler explosion. • Special precautions like SOP will be considered during start-up and shut down failure of which may lead to fire box explosion/boiler explosion. • Periodical inspection and calibration of v	Consultants Pvt. Ltd., Noida

Period	March, 2023 to May, 2023	Additional Study (if any)
	arious types of electronic instruments shall be followed. •Ensure effective monitoring of the power plant safety. •Effective house keeping to be maintained in the plant. •MSDS of the chemicals should be present at strategic locations and workers should be well trained to handle that chemical with appropriate PPE. •Gas monitoring equipments to be connected to the alarm (flammable oil). •Periodic Inspection and Maintenance of Fire Alarm & Fire Detection System to ensure its working when in need.	

Period	March, 2023 to May, 2023	Additional Study (if any)
	• Periodic rehearsal of mock drill to ensure readiness to handle any emergency situation. • All safety precautions (SOP etc.) to be followed in any type of operation in the plant to avoid accidental situations. • Special precautions like no use of match boxes, cigarette lighters etc. also be followed to avoid fire in LDO storage area, loading/unloading of LDO tanker area. • SOP to be followed during loading/unloading of LDO to storage tank. LDO Tankers to be fitted with flame arrestors. Earthing/bonding during l	

Period	March, 2023 to May, 2023	Additional Study (if any)
	oading/unloading to be considered to avoid any static charge generation. • As per NFPA-85E, it is believed that improved instrumentation, safety interlocks and protective devices, proper operating sequences and a clearer understanding of the problem by both designers and operators can greatly reduce the risks and actual incidence of furnace/boiler explosions.	
Epidemiological Stu	Recommendations • **Health Interventions**: • Strengthen pr	International Institute of Health

Period	March, 2023 to May, 2023	Additional Study (if any)
dy	imary healthcare services and disease surveillance in the Bawanaar	Management Research (IIHMR), New Delhi

Period	March, 2023 to May, 2023	Additional Study (if any)
	a. Focus on prevention and early diagnosis of both communicable a	

Period	March, 2023 to May, 2023	Additional Study (if any)
	ndnon-communicablediseases. • **Nutritional Support**: •Implementnutritioneducationa	

Period	March, 2023 to May, 2023	Additional Study (if any)
	nd supplementation programs targeting deficiencies. • **Awareness Programs:** • Promote heal	

Period	March, 2023 to May, 2023	Additional Study (if any)
	thy lifestyle practices to reduce to bacco and alcohol use, especially	

Period	March, 2023 to May, 2023	Additional Study (if any)
	among youth. • **Community Engagement**: • Involve the community in health education, sanitatio	

Period	March, 2023 to May, 2023	Additional Study (if any)
	improvement, and participatory health planning. **Action plan: Within the facility operations** • Annual medical tests for the workers who are	

Period	March, 2023 to May, 2023	Additional Study (if any)
	directly exposed to MSW handling • Tie-ups with local hospitals for annual health checkups for all persons working in high-hazard areas • Masks and hand sanitation program for persons working in the MSW handling area • Health insurance coverage for all employees and workers working at the facility • Strict implementation of ESI policy for the contract workers **<u>Within a 5</u>**	

Period	March, 2023 to May, 2023	Additional Study (if any)
	Km radius • Ambient air quality monitoring at three locations • Collaborating with other WtE operators in the area to conduct periodic epidemiological studies in association with local authorities • Conducting awareness programs on the health and hygiene aspects JUIL allocated Rs. 55 Lakhs towards various community healthcare support initiatives	

25.1.10: The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

Type of Waste	Source	Quantity (Daily) Metric Tons (MT)	Mode of Transportation	Disposal Method	Remarks
Recyclable	Process	2 MT	Road	Will be sold to registered recyclers	-
Manure (from composting)	Process	4 MT	Road	Used as compost/soil conditioner	Agreement with local farmers and horticulture departments will be made
Bottom Ash & Inert		408 MT	Road	Used for road construction and any unutilized material will be sent to ESLF	-
Fly Ash	Process	72 MT	Road	Supplied to cement industries/ash brick manufacturers and unutilized material will be sent to ESLF	-
Used Oil	Machineries	4 MT	Road	Wil be sold to registered recyclers	-

25.1.11: Public Consultation:

Details of advertisement given	Nav Bharat Times, Delhi (Hindi) - 26.11.2024 & Times of India (English) -26.11.2024
Date	27.12.2024 at 11:00 A.

of public consultation	M. to 1:00 P.M
Venue	Proposed Waste to Energy Project (30 MW), adjacent to TSDF for Hazardous Waste, Sector-5 Bawana, Delhi-110039.
Presiding Officer	Additional District Magistrate (North District), Govt. of NCT of Delhi.
Major issues raised	Air Pollution, Health, Employment, Waste Handling and Management etc.

No. of people attended	• 34 No. of Representations/ Responses (Letters-05 Nos & Emails-29 Nos) reci

	ved from the Public after 26.12.2024

S.N	Name	Response
1	People's Alliance for Waste Accountability (PAWA) peoplesallianceforwasteacc@gmail.com	Oppose
2	vkdn51284@gmail.com	Oppose
3	PUNEET VERMA puneetverma3may@gmail.com	Oppose
4	Ajay Sardana (8860380911) ajaysardana7@gmail.com	Oppose
5	BK Singla (9810886322) baldevksingla@gmail.com	Oppose
6	PAWAN BATRA pawan07batra@yahoo.co.in	Oppose
7	PAWAN BATRA pawan07batra@yahoo.co.in	Oppose
8	shahbazsaifi254@gmail.com	Oppose
9	Ravinder Kumar H.N.145 Village Sanoth, Delhi. ravindermahura@gmail.com	Oppose
10	Tarsem Singh (9810012402)	Support

S.N	Name	Response
	kwality.tarsem@gmail.com	
11	sahilseh009@gmail.com	Oppose
12	samarseh0405@gmail.com	Oppose
13	Hardik Dhochak hardikdhochak3813@gmail.com	Oppose
14	mkchahal111@gmail.com	Oppose
15	mkchahal111@gmail.com	Oppose
16	vinudelhi006@gmail.com	Oppose
17	surendersingh09899@gmail.com	Oppose
18	Bablu nirwal99999@gmail.com	Oppose
19	Surender Singh Dabas surendersingh3193520m@gmail.com	Oppose
20	vkdn51284@gmail.com	Oppose
21	amitkumar15774439@gmail.com	Oppose
22	alexmercy112233@gmail.com	Oppose
23	sharawat.sunil@gmail.com	Oppose
24	Yogesh Chahal(Village Sanoth) yogeshchahal08@gmail.com	Oppose
25	Rajpal singh rajpalsaini01081957@gmail.com	Oppose
26	rk025214@gmail.com	Oppose
27	vickykajla624@gmail.com	Oppose
28	shivkumar101110@gmail.com	Oppose
29	chanderkala95964@gmail.com	Oppose
30	sahilparjapati9990@gmail.com	Oppose
31	devsehrawat935@gmail.com	Oppose
32	rahulparjapati938@gmail.com	Oppose

S.N	Name	Response
33	ashokkhatri.ak@gmail.com	Oppose
34	Jai prakash (9717319552) Village khera kalan Delhi 110082 jai.rana005@gmail.com	Oppose
35	dabasp84@gmail.com	Oppose
36	haribhura9@gmail.com	Oppose
37	bhuraraja89@gmail.com	Oppose
38	jk45447@gmail.com	Oppose
39	ahmedanish526@gmail.com	Oppose
40	rajabhura656@gmail.com	Oppose
41	nirwalvirat029@gmail.com	Oppose
42	baldevatal27@gmail.com	Oppose
43	mk8324090@gmail.com	Oppose
44	sj2536894@gmail.com	Oppose
45	deepsaini001.ds@gmail.com	Oppose
46	deepsaini0001.ds@gmail.com	Oppose
47	panditjionln@gmail.com	Oppose
48	Abhishek Vats anjuabhivats@gmail.com	Oppose
49	ramphalvats2@gmail.com	Oppose
50	av4743377@gmail.com	Oppose
51	preranavats89@gmail.com	Oppose
52	ssaini0764@gmail.com	Oppose
53	ahmedanish526@gmail.com	Oppose
54	bhurahari@gmail.com	Oppose
55	meenalalitkumar1987@gmail.com	Oppose
56	sheleshraghav2008@gmail.com	Oppose

S.N	Name	Response
57	yashvats098@gmail.com	Oppose
58	ee.hce14011002005@gmail.com	Oppose
59	gkb1473@gmail.com	Oppose
60	Sandeep sn.icfai@gmail.com	Support
61	saini00pankaj@gmail.com	Oppose
62	tanishthakran163@gmail.com	Oppose
63	Shekhar luckymanwall@gmail.com	Support
64	Ravi Kant Singh parthkrsh136@gmail.com	Support
65	Sambit sambitsaswat87@gmail.com	Support
66	Gaurav Singh gauravvsingh710@gmail.com	Support
67	Simran Walia simranwalia356@gmail.com	Support
68	chandswam7@gmail.com	Oppose
69	P.S.Bisht - Resident of Narela prn_bisht@rediffmail.com	Support
70	Ramu Goyal ramugoyal@outlook.com	Support
71	d.nirwal@yahoo.com	Oppose
72	Nirakar nira.sahu.321@gmail.com	Support
73	souravbarkandaj3@gmail.com	Oppose
74	souravbarkandaj3@gmail.com	Oppose
75	Manoj Agarwal manoj130575@gmail.com	Support
76	krishanmalik148@gmail.com	Oppose
77	Megha meghashastri25@gmail.com	Support

S.N	Name	Response
78	yogicame92@gmail.com	Oppose
79	Vinod Yadav (9873989036) vinodyadav564@gmail.com	Oppose
80	Ramesh ramesh1055@gmail.com	Support
81	Sachin Dhingra sachindhingra@gmail.com	Support
82	akashswami56@gmail.com	Oppose
83	ashoknirwal528@gmail.com	Oppose
84	nirwalvarun19@gmail.com	Oppose
85	bhupendernohwal08@gmail.com	Oppose
86	mukeshattri42@gmail.com	Oppose
87	rathicablenetwork14@gmail.com	Oppose
88	rathicablenetwork14@gmail.com	Oppose
89	rathicablenetwork14@gmail.com	Oppose
90	vatsavinash1994@gmail.com	Oppose
91	tridevroadlines9312@gmail.com	Oppose
92	vvats0887@gmail.com	Oppose
93	rakesh391973@gmail.com	Oppose
94	attripandit@gmail.com	Oppose
95	heenasaini1698@gmail.com	Oppose
96	surendersingh09899@gmail.com	Oppose
97	vatsboy6490@gmail.com	Oppose
98	manjeetkajla5627@gmail.com	Oppose
99	sainiuma266@gmail.com	Oppose
100	jyotipanchal26061998@gmail.com	Oppose
101	jyotipanchal26061998@gmail.com	Oppose

S.N	Name	Response
102	rockchahal0695@gmail.com	Oppose
103	akashnimesh9873@gmail.com	Oppose
104	pashu7204@gmail.com	Oppose
105	psaini.advocate@gmail.com	Oppose
106	inspiringm98@gmail.com	Oppose
107	saritasaini151979@gmail.com	Oppose
108	factorymotivation92@gmail.com	Oppose
109	Sonam sonamsharam0769@gmail.com	Oppose
110	Sonam sonamsharam0769@gmail.com	Oppose
111	Sonam sonamsharam0769@gmail.com	Oppose
112	atulvats087@gmail.com	Oppose
113	attrivansh3@gmail.com	Oppose
114	sanjaykumar9121976@gmail.com	Oppose
115	paramjeetsinghsaab33@gmail.com	Oppose
116	dheerajgautam58@gmail.com	Oppose
117	ksaurabh4234@gmail.com	Oppose
118	ksaurabh4234@gmail.com	Oppose
119	ksaurabh4234@gmail.com	Oppose
120	vikasnarwal52661@gmail.com	Oppose
121	manish27aug@gmail.com	Oppose
122	mannuv4719@gmail.com	Oppose
123	vaibhav.gautam90@gmail.com	Support
124	lalitatalpl@gmail.com	Oppose
125	Mohit verma mohitverma1mv4@gmail.com	Support

S.N	Name	Response
126	himsain1201@gmail.com	Oppose
127	bhardwaj2002ankit@gmail.com	Oppose
128	Ashish ashish08saini@gmail.com	Oppose
129	himsain1201@gmail.com	Oppose
130	poojasaini3855@gmail.com	Oppose
131	kkchahal51019@gmail.com	Oppose
132	ashishnirwal0710@gmail.com	Oppose
133	dineshnirwal4949@gmail.com	Oppose
134	rajpalsaini01081957@gmail.com	Oppose
135	amitatal71@gmail.com	Oppose
136	n7701906373@gmail.com	Oppose
137	n7701906373@gmail.com	Oppose
138	honeynarwal142@gmail.com	Oppose
139	kumarvirender77030@gmail.com	Oppose
140	deepaknirmal8891@gmail.com	Oppose
141	sanjay.electricalworks1972@gmail.com	Oppose
142	nikitaagarwal3103@gmail.com	Support
143	sonu1988gir@gmail.com	Oppose
144	rajeshseema1976@gmail.com	Oppose
145	Gopal Gosadan Harevali gosadanharewali@gmail.com	Oppose
146	Gopal Gosadan Harevali gopalgosadanharewali@gmail.com	Oppose
147	rnjeetsingh1972@gmail.com	Oppose
148	nikhilesh56@gmail.com	Oppose
149	ntnkhatri6@gmail.com	Oppose
150	jindal.shubham9111@gmail.com	Oppose

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151	chiragbabbariws@gmail.com	Oppose
152	rahulsingh7june2000@gmail.com	Oppose
153	rahulpanchal7june2000@gmail.com	Oppose
154	nikhilgupta330@gmail.com	Oppose
155	Shivam Mangal #9810080568 sammangal1996@gmail.com	Oppose
156	rahulballb040@gmail.com	Oppose
157	nirwal99999@gmail.com	Oppose
158	manishranga9314@gmail.com	Oppose
159	Shubham Mathur mathur.mathur36@gmail.com	Support
160	shaktinarwal@ymail.com	Oppose
161	brajesh1608@gmail.com	Oppose
162	amitswami882@gmail.com	Oppose
163	luckynohwal88@gmail.com	Oppose
164	gauravatal8585@gmail.com	Oppose
165	Jitender yadavjiten9007@gmail.com	Oppose
166	priyankasaini.bemine@gmail.com	Oppose
167	Sumit Rohini, Sector-24, pocket-1, Delhi-110086. cmasumitkumar100@gmail.com	Support
168	bhuraraja89@gmail.com	Oppose
169	jeetsinghkajla3251@gmail.com	Oppose
170	krishannirwal6@gmail.com	Oppose
171	krishannirwal6@gmail.com	Oppose
172	saurabhs659@gmail.com	Oppose
173	Vinod Mann (9654963828) mannvinod26@gmail.com	Oppose

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174	singhgautam793@gmail.com	Oppose
175	tmsvansh5609@gmail.com	Oppose
176	sharmababita3700@gmail.com	Oppose
177	komalmathur1498@gmail.com	Oppose
178	monikamathurabc@gmail.com	Oppose
179	baburamnathiya@gmail.com	Oppose
180	anshunirwal111@gmail.com	Oppose
181	drdeepakspb@gmail.com	Oppose
182	deepaktalksalot@gmail.com	Oppose
183	drdeepakspb1986peter@gmail.com	Oppose
184	drorthodeepak@gmail.com	Oppose
185	Yagesh Nohwal yageshsingh5@gmail.com	Oppose
186	Siya sector-24, Rohoni, Delhi-110086 sumitkadian1992@gmail.com	Support
187	Brijesh Kumar H.No. 74, Village Sanoth Delhi-110040 b.raj.sai@gmail.com	Oppose
188	99raghubirsingh99@gmail.com	Oppose
189	rupeshsharma81@gmail.com	Support
190	yashnirwal018@gmail.com	Oppose
191	Nitish Mishra (9968590635) nitsss008@gmail.com	Support
192	mkchahal111@gmail.com	Oppose
193	kumarlalit26905@gmail.com	Oppose
194	loveneet112@gmail.com	Oppose
195	Anuj Kumar Pandey (Students of Environmental Science) Resident of D-14/181, Pocket 13, Sector 8, Rohini, New Delhi, 11008 5.	Support

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	mr.anujpandey2003@gmail.com	
196	sangamxray@gmail.com	Oppose
197	skardam2003@gmail.com	Oppose
198	jatinnemash27@gmail.com	Oppose
199	Pintu Giri (9560424372) giriofficial14@gmail.com	Support
200	kushalkaryashala@gmail.com (+919671675656)	Support
201	Ramniwas Sehrawat M : 9811353570 ramniwas.sharawat@gmail.com	Oppose
202	anshunirwal111@gmail.com	Oppose
203	jsvats1962@gmail.com	Oppose
204	tmsvansh5609@gmail.com	Oppose
205	Yogeshwar 9891438020 yogesh_natraj@yahoo.com	Support
206	monikamathurabc@gmail.com	Oppose
207	sukhdevdabas@gmail.com	Oppose
208	Mohd Ishrar (student) mohdishrar9773@gmail.com	Oppose
209	rk3247175@gmail.com	Oppose
210	rk3247175@gmail.com	Oppose
211	sushilnohwal8010@gmail.com	Oppose
212	parveennirwal5@gmail.com	Oppose
213	rajeevkumar4483@gmail.com	Oppose
214	Preet Narwal House Number 275 Near Community Hall Sannoth,Delhi-110040 8384048851 narwalpreet2@gmail.com	Oppose

S.N	Name	Response
215	tapeshwarshah61@gmail.com	Oppose
216	shilpinirwal97@gmail.com	Oppose
217	rajeshnarwal94@gmail.com	Oppose
218	golushah87342@gmail.com	Oppose
219	shilpinarwal8@gmail.com	Oppose
220	akashali800@gmail.com	Oppose
221	ankit7533098342@gmail.com	Oppose
222	Rinku Resident of Sanoth rinkupanchal25121992@gmail.com	Oppose
223	chintuvats30@gmail.com	Oppose
224	kunalkhatri.19@gmail.com	Oppose
225	pandabhutki9@gmail.com	Oppose
226	anil2291prasad@gmail.com	Oppose
227	anil2291prasad@gmail.com	Oppose
228	honeparam@gmail.com	Oppose
229	parvinderkumar309@gmail.com	Oppose
230	Mohit vats vatsboy6490@gmail.com	Oppose
231	Rajarshi Dev Shukla Professional GIS & Remote Sensing Resident of D-2/135, Pocket 9, Sector 4, Rohini, New Delhi, 110085raj arshidevshukla@gmail.com	Support
232	dinesha.111@gmail.com	Oppose
233	soniknirwal@gmail.com	Oppose
234	Mahender Singh 7082369945 mahendersaini57723@gmail.com	Oppose
235	sucl007@gmail.com	Oppose
236	jaikumarnirwal@gmail.com	Oppose
237	Pawan Pawar	Oppose

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	9873003726 pawan.co.pk@gmail.com	
238	Rake Vats 9718300866 tridevroadlines9312@gmail.com	Oppose
239	Jagdish Indora 9213198579 jagdishindora1@gmail.com	Oppose
240	priyanshusainidelhi@gmail.com	Oppose
241	umedsingh121948@gmail.com	Oppose
242	Priyanshu saini Holambi khurd delhi-110082 priyanshusainidelhi@gmail.com	Oppose
243	Ramgopal Mahura 9213234902 ramug5052@gmail.com	Oppose
244	Priyanshu saini Holambi khurd delhi-11008220150367159.priyanshu@doe.delhi.gov.in	Oppose
245	rakeshnarwal8360@gmail.com	Oppose
246	kapildhankher18@gmail.com KAPIL DHANKHER	Oppose
247	anuragvats77@gmail.com	Oppose
248	Ujjwal On behalf of the Residents of Sanoth Village Mail id - its.ujjwalgoel@gmail.com Contact -6026891532	Oppose
249	Ujjwal On behalf of the Residents of Sanoth Village Mail id - ujjwalgoel104@gmail.com Contact -6026891532 ujjwalgoel104@gmail.com	Oppose
250	Isha Resident, Bawana ishasehrawat0027@gmail.com	Oppose
251	Isha Resident, Bawana ishasehrawat0027@gmail.com	Oppose
252	Complainant Mehtab Narwal Resident of Sanoth Village msnarwal7599@gmail.com	Oppose

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253	Dr.Ratna Raman ratnaraman@svc.ac.in Professor, Department of English Sri Venkateswara College New Delhi -110029	Oppose
254	satyawan96710@gmail.com	Support
255	Adv Amar B-1580, Holambi Kalan, Ph-II Delhi-82 Mobile: 9911337071 adv.amardelhi@gmail.com	Oppose
256	luckynohwal88@gmail.com	Oppose
257	sonisonikumar79379@gmail.com	Oppose
258	manavsaini7007@gmail.com	Oppose
259	mr.rajivsaini@gmail.com	Oppose
260	hshoneysing8@gmail.com	Oppose
261	abhinarwal002@gmail.com	Oppose
262	attalv1209@gmail.com	Oppose
263	parvesh10201030@gmail.com	Oppose
264	hshoneysing8@gmail.com	Oppose
265	Alok Kumar Resident of Sannoth Village aloksaini915@gmail.com	Oppose
266	Soniya Resident of Sannoth Village soniyasaini80@gmail.com	Oppose
267	[Asif khan] [Sanoth village] [8130517303, 7990099382] akhan7838@gmail.com	Oppose
268	attalv1209@gmail.com	Oppose
269	shruti saini Resident of Sannoth Village shrutisaini1980@gmail.com	Oppose
270	Ujjwal On behalf of the Residents of Sanoth Village Mail id - ujjwalgoel104@gmail.com	Oppose

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	Contact -6026891532 ujjwalgoel104@gmail.com	
271	Rahul +918929510709 indorarahul05@gmail.com	Oppose
272	aloksaini1974@gmail.com	Oppose
273	gouravchahal026@gmail.com	Oppose
274	atalankush4@gmail.com	Oppose
275	attalv1209@gmail.com	Oppose
276	rajeshcrria@gmail.com	Oppose
277	Boby Rana bobyrana7053@gmail.com	Oppose
278	bobynatrana@gmail.com	Oppose
279	bobyroy312@gmail.com	Oppose
280	gouravnirwal2002@gmail.com	Oppose
281	dk915088355@gmail.com	Oppose
282	vatsavinash1994@gmail.com	Oppose
283	Alok Kumar Resident of Sannoth Village aloksaini915@gmail.com	Oppose
284	tyagiajay027@gmail.com	Support
285	nitinpapnai135@gmail.com	Support
286	meeradeviwifi@gmail.com	Oppose
287	885397at@gmail.com	Support
288	ambujtiwari400@gmail.com	Support
289	ambujtiwari400@gmail.com	Support
290	ambujtiwari400@gmail.com	Support
291	Ranjeet Shukla sundarshukla68@gmail.com	Support
292	s96936215@gmail.com	Support

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293	techunlimited06@gmail.com	Support
294	Poornima poornima.gauravgautam@gmail.com	Support
295	Gaurav gauravgautam121018@gmail.com	Support
296	Ravi Kumar Singh rk27121992@gmail.com	Support
297	Sumit Shukla shuklasumit08918@gmail.com	Support
298	Rohan Kumar irohanhere07@gmail.com	Support
299	kartik.saini5184@gmail.com	Oppose
300	Sourabh anand saurabhanand1104@gmail.com	Support
301	amit243334@gmail.com	Support
302	sandeep90.saini@gmail.com	Support
303	Shah Alam ch.shahalam05@gmail.com	Support
304	Ramesh Kumar Ram J.P. Enterprises J-236, sector 1, Bawana rameshkumar0705@gmail.com	Support
305	tdhiraj892.com@gmail.com	Support
306	ajayktrust@gmail.com	Oppose
307	krtarsingh@gmail.com	Support
308	krtarsingh@gmail.com	Support
309	Vijay Bhardwaj M.8506972747 vijayksharma9873@gmail.com	Oppose
310	Mona singh B- 610 Holambi Kalan, Ph-II, Delhi-82 Mobile- 8743064655 monaguatam1234@gmail.com	Oppose
311	shuklaramashankar439@gmail.com	Support
312	bansalankit406@gmail.com	Oppose

S.N	Name	Response
313	Ashish ashishpaul192@gmail.com	Support
314	Rohit tiwari ramrohitravi1990@gmail.com	Support
315	Sushrut Kane sushrut.kane4@gmail.com	Support
316	Balkar balkarsingh226@gmail.com	Support
317	ramrohitravi@gmail.com	Support
318	raj793852@gmail.com	Support
319	Chandra Raj Singh 123chandra.raj@gmail.com	Support
320	ramrohitravi@gmail.com	Support
321	hs7190@dseu.ac.in	Support
322	ankit7533098342@gmail.com	Oppose
323	arunabh30@gmail.com	Support
324	akhlakh.re@gmail.com	Support
325	Prakash kumar B-579 Holambi Kalan, Ph-II, Delhi-82 Mobile:9891772839 parkash.cello1973@gmail.com	Oppose
326	kktag40@gmail.com	Oppose
327	amitabh0901@gmail.com	Support
328	bobbynegi1910@gmail.com	Support
329	jitunegi53@gmail.com	Support
330	swastikdutt@gmail.com	Support
331	duttesha9@gmail.com	Support
332	kaustubh.sidharth74@gmail.com	Support
333	upendra233221@gmail.com	Support
334	suryanshsingh0987@gmail.com	Support

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335	gargarpit1980@gmail.com	Oppose
336	qadrizulfikar@gmail.com	Oppose
337	manojbhardwaj1987@gmail.com	Oppose
338	gdeepanshu4@gmail.com	Oppose
339	ankursharmams@gmail.com	Oppose
340	bobyrana7053@gmail.com	Oppose
341	jrajeev06@gmail.com	Oppose
342	Dr.Anjali anjali2111sharma@gmail.com	Oppose
343	Ricky Rohini ricky_bikram@yahoo.co.in	Support
344	singhrinku121985@gmail.com	Support
345	sahil.khatri.8205@gmail.com	Oppose
346	ASHISH SINGH ashishsingh272727@gmail.com	Support
347	parsottam99@gmail.com	Support
348	hp95949@gmail.com	Support
349	sudhirkum0763@gmail.com	Oppose
350	nishantvashisth1020@gmail.com	Oppose
351	vaibhav123rohilla@gmail.com	Support
352	satvirgoutam1993@gmail.com	Support
353	S. Kumar san1970jeev@gmail.com	Support
354	Somendra kumar somender979@gmail.com	Support
355	jagdeesh.raghuvanshi@gmail.com	Support
356	attalv1209@gmail.com	Oppose
357	Dheeraj dpkaushik1980@gmail.com	Support

S.N	Name	Response
358	kumarigungun836@gmail.com	Support
359	ASHOK KUMAR 9289748609 ashokatal06@gmail.com	Oppose
360	Raman Tiwari ramramanrakesh@gmail.com	Support
361	Santosh s.kyadav011975@gmail.com	Support
362	naveennainwal9@gmail.com	Support
363	Arjun arjkumar1993@gmail.com	Support
364	Raj rajdeshwal.meerut@gmail.com	Support
365	poonamjangra819@gmail.com	Support
366	anjuchhikara1807@gmail.com	Support
367	akanksha.3152.singh@gmail.com	Oppose
368	sumitasingh1988@live.com	Support
369	roshnik5139@gmail.com	Support
370	Ujjwal On behalf of the Residents of Sanoth Village Mail id - ujjwalgoel104@gmail.com Contact -6026891532 sahilnarwal223@gmail.com	Oppose
371	gambhirsingh_negi@hotmail.com	Support
372	automobileconsultant@outlook.com	Support
373	amcare.ashwani1733@gmail.com	Support
374	memevaalajoke@gmail.com	Support
375	mahuradipanshu@gmail.com	Oppose
376	Ganga sweets gangasweetssec7@gmail.com	Support
377	rameshwarahirwar39@gmail.com	Support
378	parvinderkumar309@gmail.com	Oppose

S.N	Name	Response
379	Rahul Kumar On behalf of the Residents of Sanoth Village Mail id - raahul1991singh@gmail.com Contact -9999934469 raahul1991singh@gmail.com	Oppose
380	Rishi Arya rishi_3k@yahoo.co.in	Support
381	mr.sharif1983@gmail.com	Support
382	dayashankarshukla1@gmail.com	Support
383	VIJAY KUMAR M9873564772 vijay.bhardwaaj09@gmail.com	Oppose
384	Ujjwal On behalf of the Residents of Sanoth Village Mail id - its.ujjwalgoel@gmail.com Contact -6026891532	Oppose
385	Madhur Chopra madhur22chopra@gmail.com	Support
386	anjali33khurana@gmail.com	Support
387	its.ujjwalgoel@gmail.com	Oppose
388	Amar nishu7999singh@gmail.com	Oppose
389	gouravchahal026@gmail.com	Oppose
390	jagdeesh.raghuvanshi@gmail.com	Support
391	scsssamiti2016@gmail.com	Oppose
392	scsssamiti2016@gmail.com	Oppose
393	sheetal.saroj246511@gmail.com	Oppose
394	Manish Singh m.psingh99990@gmail.com	Support
395	amar260985@gmail.com	Support
396	Jaiman jaimankujur62@gmail.com	Support
397	Sanjeev kumar san70jeev@yahoo.co.in	Support
398	Nishi sharmanishi033@gmail.com	Support

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399	Nishi sharmanishi033@gmail.com	Support
400	Deepak Sachan deepaksachan19@gmail.com	Support
401	Sachin Gupta sachingupta328@gmail.com	Support
402	dalchand01071966@gmail.com	Oppose
403	Jitendra Yadav jitendrajitf@gmail.com	Support
404	Shailendra Mathur smathur.rampur@gmail.com	Support
405	Jagdeesh Raghuvanshi Jagdeesh.Raghuvanshi@jindalecopolis.com	Support
406	kajlarishu@gmail.com	Oppose
407	vipinbansal042@gmail.com	Oppose
408	Sanjeev churia san70jeev@gmail.com	Support
409	Vikram Verma rohilla12cv64@gmail.com	Support
410	rishi1823prasad@gmail.com	Support
411	akasharya465@gmail.com	Support
412	akasharya465@gmail.com	Support
413	akasharya465@gmail.com	Support
414	surendra94mechanical@gmail.com	Support
415	Mohd.Sharif mr.sharif1983@rediffmail.com	Support
416	shivmohangyn@gmail.com	Support
417	Mohd Mahmood Khan mmahmoodkhan846@gmail.com	Support
418	Pawan Pawar On behalf of the Residents of Sanoth Village Mail id - pawan.co.pk@gmail.com Contact -9873003726	Oppose

S.N	Name	Response
419	kumatajay755@gmail.com	Support
420	ankitattal290@gmail.com	Oppose
421	sumitsharma3737@gmail.com	Support
422	Sachchidanand sinha s.singh1729@gmail.com	Support
423	sashitiwari280@gmail.com	Support
424	Kanwar Singh kan46war@gmail.com	Support
425	rajputnanu35@gmail.com	Support
426	Piyush Lavania piyushlavania0@gmail.com	Support
427	Suraj Kashyap B-....1648 .... Holambi Kalan, Ph-II, Delhi-82 Mobile:..7053224907 kashyapsuraj416@gmail.com	Oppose
428	Nikhil Gupta nikhilgupta330@gmail.com	Oppose
429	toonpuri99@gmail.com	Support
430	shinudeni926@gmail.com	Support
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676	mustakim123malik@gmail.com	Support
677	reachcycle@gmail.com	Oppose
678	Ekta Residence Welfare Association	Oppose
679	Jan Garib Kalyan Samiti	Oppose
680	Residents of Sanoth Village	Oppose
681	, , -1	Oppose
682	Neeldaman Khatri Ex. MLA, Narela	Oppose
683	Aruna Kumari, Purv Nigam Parshad, Alipur	Oppose
684	Dr Ramniwas Sehrawat, General Secretary, Delhi Gram Sudhar Mahasabha (360)	Oppose
685	Deepak Kumar Advocate, Sannoth Village	Oppose

Summary of issues raised during the public consultation:

Category	Key Concerns Raised	Responses Provided
Air Pollution	Now a days where pollution is on its peak and where we the residents specially those who are living near to Industrial area are already exhausted due to pollution emerging by Industrial units.	Ambient Air quality monitoring system will be installed in plant for tracking pollution levels that ensures compliance with environmental regulations and ensures protection of public health under EHS program of the proposed project.
Medical & Health	There is already a big Landfill is working here, and AQI is also in dangerous zone.	Development of new landfill sites has also not been allowed by Delhi High Court. All emission parameters from the plant shall be within the prescribed limits. Ambient Air quality monitoring system will be installed in plant for tracking pollution levels, ensuring compliance with environmental regulations, and protecting public health.
Employment	Employment Generation	Noted with thanks and Employment will be provided to local people.
Waste Handling and Manag	The collection, transportation, and processing of waste at such a large scale could create health risks for workers and residents, especially	Waste will be received in closed hook loader in the plant. MSW will be stored in an enclosed pit which is maintained under negative pressure, which prevents the escape of any odor. Regular spray in oculum on the waste will be done. Plant will install spray system f

Category	Key Concerns Raised	Responses Provided
ement:	if safety protocols are not strictly followed.	or odor management The WTE plant will not emit odor. Leachate Management System will be put in place.

Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the concerns of public consultation:

S. No	Physical activity and action Plan		Year of implementation (Budget in INR Lakhs)					Total Rs. In Lakhs
			25-26	26-27	27-28	28-29	29-30	
MEDICAL & HEALTH FACILITIES								
1	Providing Medical Camps	Physical Nos	2	5	5	7	7	
		@Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	5	10	10	15	15	55
SOLAR ENERGY DEVELOPMENT/INFRASTRUCTURE DEVELOPMENT								
1	Repair and maintenance of internal roads	Physical Nos	1	1	1	1	1	
		@ Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	5	10	20	20	20	75
2	Solar Energy Development	Physical Nos						
		@ Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	40	55	75	94	126	390
DRINKING WATER/WATER SHED DEVELOPMENT								
1	Providing of RO plant water	Physical Nos	1	1	1	3	1	
		@ Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	

S. No	Physical activity and action Plan		Year of implementation (Budget in INR Lakhs)					Total Rs. In Lakhs
			25-26	26-27	27-28	28-29	29-30	
		Budget, Rs lakhs	2	2	2	6	2	14
GREENBELT DEVELOPMENT								
1	Greenbelt development in villages	Budget, Rs lakhs	3	5	3	3	3	17
EMPLOYMENT/SKILL DEVELOPMENT								
1	Providing skill development training to ITI & diploma passed local youth	Physical Nos	4 students/year	5 students/ year	5 students/year	5 students/year	5 students/ year	
		@Village	Local Youth from 10 km radius					
		Budget, Rs lakhs	1	2	2	2	2	9
SANITATION								
1	Renovation of Toilets & Distribution of dust bins	Budget, Rs lakhs	10	15	20	25	30	100
Total Cost, lakhs			**66**	**99**	**132**	**165**	**198**	**660**

25.1.12: Cost of project: The capital cost of the proposed project is Rs 660.0 Crores and the capital cost for environmental protection measures is proposed as Rs 91.605 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 14.155 Crores. The employment generation from the proposed project is 242 (during operation phase). The details of the cost for environmental protection measures are as follows:

Details of Cost Provision for Environmental Measures

S. No.	Particulars	Equipment/Measures Taken-other	Capital Cost (in Crores)	Recurring Cost per annum (in Crores)
1	Air Pollution Control	Flue Gas Cleaning System, SNCR, Anti-Smog Gun etc.	49.505	11.000
2	Water Pollution Control	WTP & LTP installation & Operating cost.	31.400	2.200
3	Noise Pollution Control	Acoustic enclosures & Personal Protective Equipment.	No extra capital investment is required for NPCS to be purchased	0.500

S. No.	Particulars	Equipment/Measures Taken-other	Capital Cost (in Crores)	Recurring Cost per annum (in Crores)
			with noise compliance	
4	Environment Monitoring and Management	OCEMS/CAAQMS installation & Maintenance, Monitoring of Stack emissions.	3.000	0.170
		Manual Environmental and Stack Monitoring	0.14	---
5	Occupational Health	Provision of OHC for working personnel.	0.200	0.150
6	Green Belt	Pursuant to Battery Limit intensifying the greeneries inside and outside of the project site.	0.170	0.051
7	Wildlife Conservation Plan	Activities under biodiversity and habitat conservation	0.540	---
8	Others (Odour control management + Sanitization)	High Pressure Pump, Nozzle and its accessories for fogging unit/mist system & herbal solution spray.	0.050	0.084
9	Public Hearing Commitment	Medical & Health Facilities, Safe Drinking Water, Solar Energy/ Infrastructure Development, Employment/Skill Development	6.60	-
Total			**91.605**	**14.155**

25.1.13: Employment Details: Total manpower during Construction Phase shall be 630 (60 - direct & 570 – Indirect/contractual) and during Operational Phase shall be 242 (86 - direct & 156 – Indirect/contractual).

25.1.14: Green belt development: Proposed greenbelt will be developed in 6.0 acres (2.43 ha) which is about 40 % of the total project area. Thus total of 6.0 acres (2.43 ha) area (40 % of total project area) will be developed as greenbelt. Local and native species will be planted with a density of 2000 trees per hectare. Total no. of 4860 saplings will be planted and nurtured in 6.0 acres (2.43 ha) in 3-5 years. The action plan for green belt development is furnished as below:

- **Greenbelt Area**: 6 Acres (~40% of the total project area)
- **Number of trees**: 4,860 trees to be planted @ 2000 trees/ha
- **Native species** will be selected from the plantation:
    - *Ailanthus excelsa, Alstonia scholaris, Azadirachta indica, Bombax ceiba, Butea monosperma, Calistemon viminalis, Cassia fistula, Dalbergia sissoo, Ficus bengalensis, Ficus religiose, Melia azedarach etc.*

- **Greenbelt layout**: 3-tier plantation around boundaries, roads & open areas
- **Tree spacing**: 2.5m x 2.5m grid for optimal canopy and coverage
- **Width**: Minimum of about 3 to 5 m along the periphery and internal roads

Year	Number of Saplings	Capital cost (INR)	Recurring cost (INR)
2024-2025	1000	350000	10500
2025-2026	1500	525000	15750
2026-2027	2360	826000	24780
Total	**4,860**	**17,01,000**	**51,030**

25.1.15: **Ash Management System:** The present project falls under Waste to Energy category and accordingly bottom ash, and fly ash utilization plan has been developed as per the current technically viable ash utilization programs

Details	Annual generation (Metric Tons Per Annum – MTPA)	Utilization	% of utilization	Balance quantity (MTPA)	No of storage silos with capacity
Bottom Ash & Inert	1,48,920	Use for road construction and any unutilized material will be sent to ESLF	-	Unutilized material will be sent to ESLF	-
Fly Ash	26,280	Supplied to cement industries/ash brick manufacturers	-	Unutilized material will be sent to ESLF	2 nos. of silos

25.1.16: Summary of court cases: There are no litigations pending against the proposed project.

25.1.17: Written submissions

The proponent submitted the following with respect to the temperature profiling in the boiler:
The boiler is equipped with multistage hydraulic reciprocating grate furnace. It is the state of art forward &/or reverse acting grate technology for typical Indian waste. It is a complete system that efficiently converts municipal solid waste into energy through controlled combustion.The boiler is composed of several auxiliary systems such as feeding equipment, feeding grate, incineration grate, hydraulic system, oil burner system, automatic control system, combustion air system, ash and slag discharging system, etc. It has a unique grate design and optimized air distribution system, to ensure the highest combustion efficiency and eliminate partial combustion, with advanced automatic combustion control system. The waste combustion zone is divided into following sections according to the combustion properties, where the waste is dried, burned, burned out and finally cooled:

1) the drying section,
2) the combustion section and
3) the slag cooling section;

The primary air enters the primary combustion zone of furnace through the chamber arranged under the grate. 1st section specializes in drying the waste to optimum combustion temperature. 2nd section ensures complete combustion above 950 °C temperature. Secondary air enters the secondary combustion zone of furnace through nozzles to enhance the turbulence, along with refractory in the first pass to ensure more than 2 seconds residence time. The continuing design of boiler includes top support, vertical, four pass,

balance draft, single drum and natural circulation, water tube design. Further, the temperature profile of both the combustion zones and boiler passes is as follows:

Particular	1st Pass Furnace		2nd Pass Outlet	3rd Pass Outlet	4th Pass Outlet
	Primary Combustion Zone	Secondary Combustion Zone			
Flue Gas Temperature	1068 °C	1025 °C	661 °C	350 °C	190 °C

The Boiler is designed to maintain the temperature above 950 °C in the secondary combustion zone and ensure a gas residence time of more than 2 seconds in the secondary combustion zone.

3.1.3. Deliberations by the committee in previous meetings

N/A

3.1.4. Deliberations by the EAC in current meetings

Observations and deliberation of the EAC

25.1.18: The Committee observed and noted the following:

i. Instant proposal is for setting up of Waste to Energy Thermal Power Project of capacity 30 MW by M/s Jindal Urban Waste Management (Bawana) Limited located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi

ii. The EAC took into consideration the KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.

iii. ToR for the proposed greenfield project was accorded on 10/01/2024. The site for the proposed project was selected after analysing three alternate sites. The Bawana site was found most suitable due to availability of adequate authorized land with the MCD in DSIIDC, Industrial Area, Nearness to water source from PPCL and no fresh water will be drawn up for industrial use except drinking water and no existence of Ecologically sensitive areas.

iv. Total land required for the proposed project is 6.07 Ha (15.0 Acres), falling within the DSIIDC industrial area, Bawana, Delhi and doesn't involve R&R issues. The land has been provided by Municipal Corporation of Delhi (MCD) to M/s. Jindal Urban Waste Management (Bawana) Limited vide concession agreement dated 27/02/2025.

v. The committee observed that a natural nallah is passing through the project site. Western Yamuna Canal is located at approx. 32 meters from the project site in South-West direction. No nallah diversion involved but the Nalla embankment shall be strengthen and green belt will be developed all along the periphery of the nallah for its conservation. The committee suggested that nallah should be kept intact and no leachate or waste water/solid waste shall be discharged/deposited in to the Nallah.

vi. There is no involvement of forest land. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site as ascertained from DSS.

vii. The project site is not located within the Critically Polluted Area (CPA) / Severally Polluted Area (SPA) as per CEPI assessment 2018 of CPCB.

viii. The technology to be employed for this WTE project is RDF combustion based reciprocating

forward feed grate technology. The power generation capacity will be 30 MW. The quantity of MSW requirement for the project will be 3000 TPD.

ix. The water requirement for the proposed project during operation phase is estimated as 625 m^3 /day and approx. 7 m^3/day of fresh water will be required for domestic purposes which will be met by the Delhi Jal Board (DJB). Requirement of water for industrial usage will be met from the blowdown reject water from the Pragati Power Corporation Limited (PPCL) or treated sewage from STP, DJB. No ground water shall be used for the proposed project. Zero Liquid Discharge will be for the proposed project.

x. The requirement of the construction power supply for the project would be met from the Tata Power Delhi Distribution Limited (TPDDL).

xi. The Committee deliberated on the baseline data and incremental GLC due to the proposed project. The committee noted that the proponent is providing hydrated lime injection for SO_2 control, bag filter, Low NO_X combustion system and provision for Selective Non-Catalytic Reduction (SNCR) for NOx control and stack with a height of 60 meters will be provided to control & regulate the air emission from the proposed project.

xii. For odour control, the committee noted that negative Pressure Ventilation in the MSW collection pit, ventilation air from MSW pit will be fired in the boiler and provision of fogging unit/mist system & herbal solution spray.

xiii. The committee noted that with respect to water pollution control, proponent will be using Air cooling system, wastewater from raw water treatment facilities and the boiler section will be used for flue gas conditioning and dust suppression operations and leachate will be collected, treated, and reused in the main plant. Zero liquid discharge will be adopted.

xiv. The rejects/generated bottom ash will be processed in the bottom ash processing plant. After the processing materials which are not recyclable for further processing will be sent to Sanitary Landfill. Fly ash will supplied to cement industries/ash brick manufacturers and unutilized material will be sent to secured land fill.

xv. There are 3 Schedule I Species found in the study area and a Wildlife Conservation & Management Plan (WLCP) has been prepared and submitted to DFO for their approval. Rs 54 Lakhs has been allocated for the Conservation Plan.

xvi. The findings of epidemiological study report have been deliberated and the Committee noted that JUIL has allocated Rs. 55 Lakhs towards various community healthcare support initiatives.

xvii. Proposed greenbelt will be developed in 6.0 acres (2.43 ha) which is about 40 % of the total project area in a time frame of three to five years.

xviii. Public hearing for the project was held on 27.12.2024**.** The Committee looked into the videography of the public hearing proceedings, deliberated on the public hearing issues and written representations received along with the action plan submitted by the proponent to address the issues raised during the public hearing. The committee advised the PP to implement the PH action plan in a time bound manner.

xix. The capital cost of the proposed project is Rs 660.0 Crores and the capital cost for environmental protection measures is proposed as Rs 91.605 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 14.155 Crores. The employment generation from the proposed project is 242 (during operation phase).

xx. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xxi. The Committee also deliberated on the comments received from Commission on Air Quality Management wherein it has been emphasized upon that proposed project shall undertake strict

control measures to control the air pollution arising due to other activities linked to WTE plant construction and operation (e.g., C&D, transportation, road dust, etc) and all the Directions, Advisories and Orders issued by the Commission in this regard from time to time shall be followed strictly. The committee asked the proponent to ensure compliance with the same.

xxii. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

xxiii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

25.1.19: In view of the foregoing and after detailed deliberations, the committee ***recommended*** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 **subject to submission of the written information on Parivesh portal** and stipulation of the following specific conditions and general conditions based on project specific requirements:

3.1.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

3.1.6. Details of Environment Conditions

3.1.6.1. Specific

Environmental Management	
1.	The incoming organic waste of 600 TPD shall be processed at bio-methanation facility and mixed waste of 2400 TPD shall be processed at proposed waste to energy plant as committed. All the waste received shall be kept under a covered storage facility equipped with impermeable base and provision for collection of leachate leading to a leachate treatment and disposal facility.
2.	Project proponent shall take necessary precaution to minimize nuisance of odour, flies, rodents, bird menace and fire hazard in the waste storage pit, around & over windrows and in processing area.
3.	Proponent shall ensure that pre-process and post-process rejects shall be removed from the compost processing facility on regular basis and shall not be allowed to pile at the site. Recyclables shall be sent to authorized recyclers. The non-recyclables having high calorific fraction (>1500 kcal/kg) shall be segregated and sent to waste to energy.
4.	Project Proponent shall ensure that waste to be incinerated shall not be chemically treated with any chlorinated disinfectants and incineration of chlorinated plastics shall not occur. All the facilities in twin chamber incinerators shall be maintained to achieve a minimum temperature of 950℃ in secondary combustion chamber and with a gas residence time in secondary combustion chamber not less than 2 seconds. Incinerators shall be operated with such temperature, retention time and turbulence, as to achieve Total Organic Carbon (TOC) content in the slag and bottom ash less than 3%, or the loss on ignition is less than 5% of the dry weight. The CO2 concentration in tail gas shall not be more than 7%.
5.	Project proponent shall ensure that maximum utilization of ash generated in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. No ash pond is permitted within the project site.

	Any unutilized ash and inerts from processing of municipal solid waste in the proposed Waste to Energy Plant shall be sent to Engineered Sanitary Landfill (ESLF) for its safe disposal. In case the concentration of toxic metals in incineration ash exceeds the limits specified in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended from time to time, the Project Proponent shall send the ash to the Treatment, Storage and Disposal Facility for Hazardous Waste at Bawana in Delhi.
6.	Project proponent shall install one continuous ambient air quality monitoring at suitable locations within the project site in consultation with DPCC as committed. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.
7.	Online Continuous Stack Emission Monitoring System (OCEMS) shall be done through 24X7 online monitoring system. The emission Standards for Municipal Solid Waste based Thermal Power Plants as per Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)) shall be complied (Refer Part C of Schedule II of Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)). OCEMS shall be calibrated properly to ensure that data matches with the actual monitoring results.
8.	The total water requirement for the proposed project is estimated as 989 m3/day, out of which 625 m3/day shall be met from blowdown reject water of Pragati Power Corporation Limited (PPCL) or treated wastewater from Sewage Treatment Plant (STP) of Delhi Jal Board (DJB) for industrial purposes and 7 m3/day fresh water shall be met from drinking water supply of DJB for domestic purposes. Air-Cooled Condenser shall be used to reduce fresh water requirement and no ground water abstraction shall be allowed.
9.	Natural nallah passing through the project site should be kept intact and no leachate or waste water/solid waste shall be discharged/deposited in to the Nallah. It's embankment shall be strengthened and Green belt shall be developed all along the periphery of the nallah. Western Yamuna Canal located at 32 meters from the project site in South-West direction shall be protected.
10.	Project proponent shall harvest rainwater in a storage tank within the plant premises and utilize the same for plantation, recharging water in the pond and domestic utilization as committed. PP shall provide separate garland drains to prevent mixing of leachate with stormwater. A record shall be maintained of water collected through rainwater and its supply system. PP shall get the water audit done every year to optimize the water requirement.
11.	Project proponent shall implement the protective measure proposed in EMP in a time-bound manner. The budget earmarked for the same is Rs. 91.605 Crores (Capital) and Rs. 14.155 crores (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
12.	Project proponent shall take prior permission from the Competent Authority to divert high tension line passing through the project site.
13.	Effluent of 360 KLD shall be treated through Leachate Treatment Plant. As committed by the Project proponent, Zero liquid discharge shall be adopted for the proposed plant. No wastewater will be discharged outside the project site. A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated leachate shall be monitored once in quarter and records shall be maintained.
14.	Project proponent shall implement the concurrent plantation plan in a time bound manner. Total area of 2.43Ha. (40% of total plant area of 6.07 Ha.) shall be developed as greenbelt in a time frame of 3-5 years. Three tier green belt all along the periphery of the project site shall be developed as greenbelt and green cover as per CPCB guidelines. The budget earmarked for the greenbelt shall be kept in a separate account and audited annually. PP should annually submit the audited statement of expenditure along with proof of activities viz. photographs (before & after with geolocation date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC and on PARIVESH Portal as the case may be for the activities carried out during previous year.
15.	Project proponent shall carry out community plantation with incentive scheme by distributing 50,00 saplings per year for a period of five years. Further, PP shall provide basic facilities to the nearby schools such as drinking

	water, sanitation facilities and shall also develop greenbelt around the nearby schools. Further, PP shall organize quarterly awareness programs for school students to educate them on the significance and preservation of trees.
16.	Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures suggested by state wildlife department. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of EC and the budget approved by the concerned authority shall be deposited in government account.
17.	Project proponent shall install LED display of air quality (Continuous AAQ monitoring) and stack emission (Continuous emission monitoring) at prominent locations preferably outside the plant's main entrance for public viewing and in administrative complex and maintenance of devices shall be done regularly.
18.	Project proponent shall install adequate number of anti-smog guns at the periphery of the project boundary facing inwardly at a suitable height and explore the possibility for vertical gardens in order to bring down the particulate matter concentration in the area along with carry out Water Sprinkling on roads inside the plant area/ administrative areas on a regular basis to control the air pollution. A logbook shall be maintained for the activity and be in six-monthly compliance report.
19.	Project proponent shall deploy mechanical road sweepers for everyday cleaning of the roads in and around plant site.
20.	Environment Audit of plant shall be done annually and report shall be submitted to Regional office of the Ministry.
21.	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.
22.	Monitoring of surface water quality and Ground Water quality shall also be regularly conducted in and around the project site and records to be maintained. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report. The monitored data shall be submitted regularly on PARIVESH portal as part of Half Yearly compliance report
23.	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the latest CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
24.	Project proponent shall ensure that plastic waste generated from the plant except chlorinated plastics shall be used as RDF for the in-house incinerators. The chlorinated plastics waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report submitted by Project proponent.
25.	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Greenbelt development. The action in this regard shall be submitted concerned RO in six monthly report.
26.	All the Directions, Advisories and Orders of Commission for Air Quality Management in National Capital Region and Adjoining Areas from time to time shall be complied upon by the project proponent.
Socio - Economic	
1.	All the recommendations of the epidemiological study report by IIHMR Delhi shall be complied upon by the

	project proponent in a time bound manner and compliance status in this regard shall submitted along with the six monthly compliance report. In addition to this, proponent shall carry out a Root Cause Analysis (RCA) study to assess the prevalence of water borne diseases in the areas adjacent to the proposed project. The study report along with the recommendations shall be submitted to the Regional Office of the Ministry along with the six monthly compliance report.
2.	The budget proposed for PH is Rs. 6.60 Crores. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. In addition to this, PP shall provide medical camps in the study area for better public health, strengthen existing roads, provide RO for drinking water, develop skills of local people, etc. as committed. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.
3.	The establishment of a robust public grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functioning of the mechanism twice in a month.
Miscellaneous	
1.	An Environmental Cell headed by the Environment Manger with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.
2.	Consent under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 and Authorization under Solid Waste Management Rules, 2016 and Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016for the proposed project shall be obtained from the Delhi Pollution Control Committee.
3.	All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.

3.1.6.2. Standard

1(d)	**Thermal Power Plants**
Statutory compliance	
1.	Part A, B & C of Schedule II of Solid Waste Management Rules, 2016 which came into force vide S.O. 1357 (E) on 08.04.2016 as amended from time to time shall be complied for standards for composting, treated leachate (generated from waste) and incineration of Municipal Solid Waste.
2.	Environmental Guidelines for Compressed Biogas Plant (CBG)/Bio-CNG Plants, 2022 of CPCB shall be followed for biomethanation plant based on municipal solid waste.
3.	MoEF&CC Notifications on Ash Utilization S.O. 5481 (E) dated 31/12/2021 as amended from time to time shall be complied.
Ash content/mode of transporatation of coal	
1.	Waste shall be transported in covered vehicles and the wheel-washing facility shall be provided at the entry and exit of the plant.
2.	PP shall transport fly ash / bottom ash / inerts in properly covered vehicles and ensure that no fugitive emission occurs in the air during loading, unloading and transportation.

Air quality monitoring and Management	
1.	Project proponent shall manage the foul odour emerging as a result of waste processing as per CPCB guidelines issued from time to time.
2.	Negative Pressure shall be maintained in the Waste Storage Pit from the waste pit. Pressure monitoring system showing the atmospheric pressure and pressure inside the waste pit shall be installed and the data shall be transferred to CPCB and DPCC through server.
3.	Selective Non-Catalytic Reduction (SNCR) system or Low NOx combustion system shall be installed to achieve NOx emission standard as prescribed in Solid Waste Management Rules, 2016 or by DPCC whichever is stringent.
4.	Hydrated lime and activated carbon injection system shall be installed for controlling SO2 and HCl emissions in flue gas. Bag Filter House made of PTFE (Polytetrafluoroethylene) with 130% design efficiency for controlling Particulate matter emissions shall be installed to ensure that particulate matter (PM) emission meet the stipulated standards of 30 mg/Nm3.
5.	One common stack with a height of 60 meters shall be provided with continuous online monitoring instruments for SO2, NOx and Particulate Matter as per extant rules.
6.	Exit velocity of flue gases shall not be less than 20-25 m/s. Project proponent shall ensure that all the parameters including TOCs in stack emissions to meet the standards as prescribed in Solid Waste Management Rules, 2016 or by DPCC whichever are stringent.
7.	Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM10, PM2.5, SO2, NOX within the plant area at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
8.	Adequate dust extraction/suppression system shall be installed in waste handling, ash handling areas and material transfer points to control fugitive emissions.
9.	Appropriate Air Pollution Control measures shall be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.
Noise pollution and its control measures	
1.	The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.
2.	Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.
3.	Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.
Human Health Environment	
1.	Personnels handling municipal solid waste or being present on the tipping floor shall be provided with PPE like shoe covers, gloves, masks, etc.
2.	A separate canteen far from the waste management area shall be provided for employees. All the basic sanitation facilities shall also be provided to all the employees.
3.	Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account chronic

	exposure of locals to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.
4.	The PP should have one Community Health Center in the campus,where the citizens from nearby area can have access to it and get treatment.
Water quality monitoring and Management	
1.	Proponent shall achieve specific water consumption of the WTE below 3.0 m3/MWhr.
2.	Regular (at least once in six months) monitoring of groundwater quality in and around the proposed waste to energy plant including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.
3.	The treated effluents emanating from the different processes such as RO & DM plant, boiler blow down, sewage, etc. conforming to the prescribed standards shall be recycled and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.
4.	Wastewater generation of 274 KLD (191 KLD from RO & DM Plant + 57 KLD Cooling Tower water blowdown + 26 KLD from boiler blowdown) shall be sent to CMB and 108 KLD shall be recycled to raw water tank.
5.	Leachate of 357 KLD and sewage of 3 KLD making the quantum as 360 KLD shall be treated collectively in Leachate Treatment Plant to meet the standards as laid down in Solid Waste Management Rules, 2016. Treated leachate shall be recycled and utilized in the process and for quenching ash within the premises of the proposed WTE plant.
6.	Project proponent shall use the sludge obtained from the Leachate Treatment Plant as fuel into incinerator after dewatering by screw press technique.
Risk Mitigation and Disaster Management	
1.	PP shall install radioactive sensors at the entry point of the Waste to Energy plant to detect any radioactive material in the receiving municipal solid waste.
2.	Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.
3.	Only RDF shall be fed into incinerator for generation of energy and no other kinds of fuel shall be used.
4.	Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
5.	Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.
6.	Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.
Green belt and Biodiversity conservation	
1.	Greenbelt of at least 5-50 metres thickness and densified @ 2500 trees per hectare, shall be developed in an area of 40% of the total plant area with indigenous plant species in accordance with CPCB guidelines. The greenbelt shall inter-alia cover an entire periphery of the plant.

2.	In-situ/ex-situ Conservation Plan for the flora and fauna in the vicinity of the proposed site should be prepared and implemented.
Waste management	
1.	Municipal solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.
2.	Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for compost, ash produced or any other substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.
3.	Ash shall be utilized as per provisions of the Notification issued by the Ministry's gazette notification vide S.O. 5481 dated 31.12.2021, S.O.6169 (E) dated 30.12.2021, S.O.05 (E) dated 01.01.2024 and amendment thereto.
4.	Rejects/unutilized ash shall be disposed of in the Engineered Sanitary Landfill (ESLF). In case the concentration of toxic metals in incineration ash exceeds the limits specified in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended from time to time, the PP shall send the ash to the Treatment, Storage and Disposal Facility for Hazardous Waste at Bawana in Delhi.
Monitoring of compliance	
1.	Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.
2.	The project proponent shall (Post-EC Monitoring): a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government; b. upload the clearance letter on the web site of the company as a part of information to the general public. c. inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in. d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically; e. monitor the criteria pollutants level namely; PM (PM10& PM2.5incase of ambient AAQ), SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company; f. submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB; g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company; h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.
Corporate Environmental Responsibility (CER) activities	
1.	Activities under Extended EMP will be carried out as per Ministry's OM F.No.22- 65/2017- IA.III dated 30th September, 2020 and 22-65/2017- IA.III dated 25.02.2021 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed scheduled of implementation with appropriate budgeting. Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the Extended EMP in compliance of the shall be submitted.

3.2. Agenda Item No 2:

3.2.1. Details of the proposal

Neyveli New Thermal Power Station (2x500 MW) by **NLC INDIA LIMITED** located at **CUDDALORE,TAMIL N**

ADU			
Proposal For		Amendment in EC	
Proposal No	**File No**	**Submission Date**	**Activity (Schedule Item)**
IA/TN/THE/466123/2024	J-13012/250/2007-IA.II(T)	14/06/2024	Thermal Power Plants (1(d))

3.2.2. Project Salient Features

Agenda No 25.2

25.2 Neyveli New Thermal Power Station (2x500 MW), Lignite Based TPP by M/s. NLC India Limited at Neyveli in Kurinjipadi Tehsil, in Cuddalore District, Tamil Nadu **– Amendment in Environment Clearance – regarding.**

[Proposal No. IA/TN/THE/466123/2024; F. No. J-13012/250/2007-IA.II (T)];

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

Specific/General Condition No.	Details of condition as per EC	Amendment Sought	Justification
General Conditions Sr.no (i)	**The treated effluents conforming to the prescribed standards only shall be re- circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon.** Arrangements shall be made that effluents and storm water do not do not get mixed.	The treated effluents conforming to the prescribed standards may be discharged outside the plant premises for irrigation purpose.	Project affected persons through district administration for providing the treated effluent water from NNTPS to their Agricultural lands (irrigation) for their livelihood. Further, as per the study carried out by M/s. TNAU, treated effluent is complying with the irrigation standards and suitable for irrigation.
Specific Condition (Xxiv)	An amount of Rs 22.40 Crores shall be earmarked as one time capital cost for CSR programme. **Subsequently a recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities.** Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Condition of "recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities" may be deleted	NLCIL had spent one time capital cost of Rs. 22.4 Crores towards CSR activities. NLCIL spends 2% of the average net profits made during the preceding three financial years as per the Companies Act, 2013. Hence, the condition of "**recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities"** may

Specific/General Condition No.	Details of condition as per EC	Amendment Sought	Justification
			be deleted.

i. PP shall carry out detailed analysis of water including inorganic, organic and heavy metals of treated effluent water. Also, a pilot-based study of effect of treated effluent water on native agricultural crops shall be carried out. Further, the crops may also be tested for human consumption and presence of heavy metals.

ii. Additional studies need to be done for assessing the possibility of contamination of ground water particularly with respect to heavy metals since HCL is being used in the plant and the affluent is mildly acidic.

iii. The PP needs to carry out further studies from any reputed government institute to ascertain the impact of this water (effluent discharge outside the plant) on the food chain and underground water.

iv. PP needs to inform that on what activities corresponding to capital investment of Rs 22.40 cr have been spent from the CSR budget to mitigate the effects of this particular project rather than by NCL as whole.

v. PP needs to inform the source of recurring cost (Rs 4.50 cr) for future expenditure towards maintenance of activities done against the capital investment.

vi. PP needs to provide the issues raised during PH and commitment made by PP including budget provision. The activities which are already completed and amount spent on the same. The activities which are yet to be completed and amount to be spent.

vii. PP shall carry out the plantation and submit the status of compliance of EC condition related to the same.

S. No	ADS Point	Reply/Response of PP
	PP shall carry out detailed analysis of water including inorganic, organic and heavy metals of treated effluent water. Also, a pilot-based study of effect of treated effluent water on native agricultural crops shall be carried out. Further, the crops may also be tested for human consumption and presence of heavy metals.	Treated thermal power plant effluent samples were collected from NNTPS, NLCIL, Neyveli, Cuddalore and analysed for its physio chemical characteristics by M/s Tamil Nadu Agricultural University (TNAU). Heavy metals such as chromium, nickel, cadmium, arsenic and mercury were all below detectable levels. A pilot study was also carried out by TNAU and the crop samples were analysed for heavy metal content. The findings suggest that crops from these locations meet Indian regulatory standards, with an adequate supply of macronutrients and micronutrients.

Treated effluent characteristics

Parameters	Sample 1	Sample 2	Discharge Standards (CPCB)
pH	8.24	8.07	5.5- 9.0
EC (dS m^{-1})	1.82	1.84	-
Total Dissolved Solids (mg/l)	1085	1201	2100
Total Suspended Solids (mg/l)	60	55	100
Sulphate (mg/l)	167.40	174.50	-
Chloride (mg/l)	170.40	184.60	-
Calcium (mg/l)	58.50	59.70	-
Magnesium (mg/l)	10.15	10.80	-
Sodium (mg/l)	117	118	-

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<tr><td>Total Chromium (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0.1</td></tr>
<tr><td>Total Nickel (mg/l)</td><td>*BDL</td><td>*BDL</td><td>3.0</td></tr>
<tr><td>Total Cadmium (mg/l)</td><td>*BDL</td><td>*BDL</td><td>2.0</td></tr>
<tr><td>Total Arsenic (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0.2</td></tr>
<tr><td>Total Mercury (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0.01</td></tr>
<tr><td>Total Iron (mg/l)</td><td>*BDL</td><td>*BDL</td><td>3.0</td></tr>
<tr><td>Total Copper (mg/l)</td><td>0.03</td><td>0.03</td><td>3.0</td></tr>
<tr><td>Total Fluoride (mg/l)</td><td>0.005</td><td>0.004</td><td>3.0</td></tr>
</table>
</td></tr>
<tr><td></td><td>Additional studies need to be done for assessing the possibility of contamination of ground water particularly with respect to heavy metals since HCL is being used in the plant and the affluent is mildly acidic</td><td>Groundwater samples were collected by TNAU from six different locations and analyzed as per Central Pollution Control Board (CPCB) standards (IS 10500:2012) to assess its suitability for drinking purposes.
All heavy metals, including lead, arsenic, cadmium, mercury, and nickel were below detection limits (BDL) in all samples, ensuring no significant contamination</td></tr>
<tr><td></td><td>The PP needs to carry out further studies from any reputed government institute to ascertain the impact of this water (effluent discharge outside the plant) on the food chain and underground water.</td><td>Various crops such as Paddy, sugarcane, ground nut, pulses, sugarcane, banana etc were tested for heavy metals and found that these crops meet Indian regulatory standards.
Regular monitoring and strategic nutrient management can enhance crop productivity and food safety while ensuring continued compliance with Indian agricultural standards.</td></tr>
<tr><td></td><td>PP needs to inform that on what activities corresponding to capital investment of Rs 22.40 cr have been spent from the CSR budget to mitigate the effects of this particular project rather than by NCL as whole.</td><td>
<table>
<tr><th>Nature of Expenditure</th><th>Amount in Rs.</th></tr>
<tr><td>CSR-Irrigation Works</td><td>69,57,000</td></tr>
<tr><td>CSR-Roads</td><td>64,03,926</td></tr>
<tr><td>CSR-Ananda Illam</td><td>10,00,00,000</td></tr>
<tr><td>CSR-Works done by CTO</td><td>10,35,60,817</td></tr>
<tr><td>CSR-Compound Wall</td><td>36,51,699</td></tr>
<tr><td>CSR-Worksin Aurobindo School</td><td>33,81,002</td></tr>
<tr><td>CSR-Drinking Water pipeline to Kollai Village</td><td>1,94,775</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>S. No</th><th>ADS Point</th><th>Reply/Response of PP</th></tr>
<tr><td></td><td></td><td><table><tr><td>Total CSR Expenditure</td><td>22,41,49,219</td></tr></table></td></tr>
<tr><td></td><td>PP needs to inform the source of recurring cost (Rs 4.50 cr) for future expenditure towards maintenance of activities done against the capital investment.</td><td>NNTPS is a unit under NLCIL, and the profit details of NNTPS for the last three years is:<table><tr><td>Year</td><td>Amount (Rs. In Crores)</td></tr><tr><td>2021-22</td><td>121.79</td></tr><tr><td>2022-23</td><td>213.52</td></tr><tr><td>2023-24</td><td>213.66</td></tr></table>The source of the recurring cost is from 2% of the average net profits of the last three financial years.</td></tr>
<tr><td></td><td>PP needs to provide the issues raised during PH and commitment made by PP including budget provision. The activities which are already completed and amount spent on the same. The activities which are yet to be completed and amount to be spent.</td><td>Public hearing was held on 10.12.2009 and people highlighted the following points:
Employment
Infrastructure
Health and Sanitation
Desiltation of ponds
Drinking water
NLCIL had spent Rs. 22.4 crores towards CSR activities including the above.</td></tr>
<tr><td></td><td>PP shall carry out the plantation and submit the status of compliance of EC condition related to the same.</td><td rowspan="2">Letter of award was issued for plantation of 30,000 saplings and upon completion of FGD project, further greenbelt will be developed in the designated areas.
A plantation drive is being conducted annually wherein Saplings are distributed in the nearby villages and to contract workmen for enhancing green cover.</td></tr>
<tr><td></td><td>PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. An action plan in this regard shall be submitted.</td></tr>
<tr><td>Basis of the NGT Case</td><td>Surface Water, Ground Water, Fly ash & Soil samples collected in</td><td></td></tr>
</table>

against NLCIL:	Feb'2023 & April'2023 by Poovulagin Nanbargal (NGO) without any information to Tamil Nadu Pollution Control Board (TNPCB) & NLCIL and released a report named "Powering Pollution" and articles flashed in News Papers dated 09.08.2023.
NGT Suo M	NGT Southern Bench has taken Suo M

otu Case:	otu case on 10.08.2023 based on the news press reports published on 09.08.2023. NGT SUO MOTU Case No.- OA 107/2023
TNPCB Actions:	ü Formed Committee & joint sample collected during 11th, 16th & 30th

	Aug’23 with reference to the sampling locations of NGO. ü Samples were tested in CUBE, IIT Madras and NGO tested Labo

	ratories (Chennai Mettex & Tamilnadu Test House Labs) and found that the all the parameters & heavy metals such as Mercury,

	Selenium etc. are well below the permissible limits. ü NLC IL Lignite & Fly Ash Sample test results showed presence of heav

	ymetals Below Detectable limits as per CUBE, IIT Madras. ü TNPCB released a press release on 17.10.2023, mentioni

	ng “No evidence of water pollution in Neyveli”
CPCB Actions:	ü CPCB Collected joint samples in Sept’ 2023 with reference to the sampling locatio

	ns of NGO published “Powering Pollution” report. ü Samples were tested in M/s Mats India Pvt Ltd (NABL Accredited) and found

	that the all the parameters & heavy metals such as Mercury, Selenium etc. are well below the permissible limits.
NGT	ü NGT ha

Latest Hearing on 16.04.2025:	s asked NGO that ideally the NGO should have adopted scientific sampling methods and submitted same samples to TNP

	CB and NLCIL for the samples during Feb’2023 & April’2023. ü NGT has also asked NGO that surface water testing results sho

	uld not have compared with Drinking Water Standards (IS 10500: 2012).
Final Submission: ü All the samples analyzed by IIT, Madaras CUBE, the mercury levels indicated well below the permissible limits. ü CPCB, Tamilnadu Water Supply an	

d Drainage (TWAD) Board, Chennai Metropolitan Water Supply and Sewage Board (CMWSSB) results are also indicated the mercury levels are well below the permissible limits.

ü TNPCB analyzed samples (11.08.2023, 16.08.2023, 28.08.2023, 03.04.2024) through different laboratories (IITCUBE, Chennai Mettex, TN Test House, AEL) the mercury levels are well below the permissible limits.

ü NLCIL Lignite samples and Fly

Ash Samples were tested by IIT CUBE and indicated no presence of Mercury. ü TNPCB released a press release on 17.10.2023, mentioning "No evidence of pollution in Neyveli" ü NGT final hearing is scheduled on 12.06.2025.

3.2.3. Deliberations by the committee in previous meetings

Date of EAC 1 :27/06/2024

Deliberations of EAC 1 :

The EAC while observing the treated effluent quality parameters expressed their dissatisfaction towards the analysis carried out by the PP as BOD and COD values area not sufficient. Additionally, it was noted that pH of treated water is towards acidic and as TPP is using mineral acid including HCL the treated water is not suitable for agricultural crops. EAC also interacted with the expert of TNAU who have conducted a study of productivity of crops by using effluent water. The Committee is not satisfied with reply submitted and is of the view that PP needs to carry out further studies from any reputed government agency to ascertain the impact of this water (effluent discharge outside the plant) on the food chain and underground water.

The EAC after detailed deliberation on the information submitted and as presented during the meeting **deferred** the proposal seeking the following additional information:

1) PP shall carry out detailed analysis of water including inorganic, organic and heavy metals of treated effluent water. Also, a pilot-based study of effect of treated effluent water on native agricultural crops shall be carried out. Further, the crops may also be tested for human consumption and presence of heavy metals.
2) Additional studies need to be done for assessing the possibility of contamination of ground water particularly with respect to heavy metals since HCL is being used in the plant and the affluent is mildly acidic.
3) The PP needs to carry out further studies from any reputed government institute to ascertain the impact of this water (effluent discharge outside the plant) on the food chain and underground water.
4) PP needs to inform that on what activities corresponding to capital investment of Rs 22.40 cr have been spent from the CSR budget to mitigate the effects of this particular project rather than by NCL as whole.
5) PP needs to inform the source of recurring cost (Rs 4.50 cr) for future expenditure towards maintenance of activities done against the capital investment.
6) PP needs to provide the issues raised during PH and commitment made by PP including budget provision. The activities which are already completed and amount spent on the same. The activities which are yet to be completed and amount to be spent.
7) PP shall carry out the plantation and submit the status of compliance of EC condition related to the same.

3.2.4. Deliberations by the EAC in current meetings

Observations and deliberation of the EAC

25.2.7: The Committee observed and noted the following:

Recommendations of the Committee:

25.2.8: In view of the foregoing and after detailed deliberations, the committee ***recommended*** the instant proposal for grant of following amendment in EC dated 21/10/2010, as detailed below subject to stipulation of following additional specific conditions. All Other terms and conditions prescribed in EC dated 21/10/2010 and 09/03/2016 shall remain unchanged:

Condition No. as per EC dated 21/ 10/2010	Description as per approved EC	Recommendation of EAC
General Conditions	**The treated effluents conforming to the prescribed standards only shall**	**Agreed** Concerning the changes in general co

Condition No. as per EC dated 21/ 10/2010	Description as per approved EC	Recommendation of EAC
Sr.no (i)	**be re- circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon.** Arrangements shall be made that effluents and storm water do not do not get mixed.	ndition no. (i) of EC dated 21/10/2010, Committee recommended to amend the general condition no. i as follows: *"The treated effluents conforming to the prescribed standards may be discharged outside the plant premises with a prior approval of TNPCB for irrigation purpose only"*
Specific Condition (Xxiv)	An amount of Rs 22.40 Crores shall be earmarked as one time capital cost for CSR programme. **Subsequently a recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities.** Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	**Agreed** Concerning the changes in specific condition no. (xxiv) of EC dated 21/10/2010, Committee recommended to amend the specific condition no. (xxiv) as follows: *"An amount of Rs 22.40 Crores shall be earmarked as one time capital cost for CSR programme. Details of the activities undertaken in this regard shall be submitted to the Regional Office of the MoEF&CC along with the six monthly compliance report."*

3.2.5. Recommendation of EAC

Recommended

3.2.6. Details of Environment Conditions

3.2.6.1. Specific

Additional Specific Conditions	
1.	All the recommendations made in the Study report of Tamil Nadu Agricultural University shall be strictly adhered with and compliance of the same shall be submitted to the TNPCB and Regional Office of MoEF&CC along with the six monthly compliance report.
2.	Project proponent shall monitor the quality of treated wastewater and ground water samples in the areas to be used for irrigation purposes during January & May month of every year and the monitored data shall be submitted to the TNPCB and Regional Office of MoEF&CC along with the six monthly compliance report.
3.	Project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon'ble National Green Tribunal (Southern Zone) in O.A 107 of 2023.

4. Any Other Item(s)

N/A

5. List of Attendees

Sr. No.	Name	Designation	Email ID	Remarks
1	Dr Santoshkumar Hampannavar	Member (EAC)	san**********@yahoo.com	Present
2	Dr Umesh Jagannathrao Kahalekar	Member (EAC)	uka*******@rediffmail.com	Present
3	Shri K B Biswas	Member (EAC)	bis*********@gmail.com	Present
4	Shri Mahi Pal Singh	Member (EAC)	mps********@nic.in	Present
5	Sundar Ramanathan	Scientist - F	r.s*****@nic.in	Present
6	Sh Inder Pal Singh Matharu IFS	Chairman, EAC	mat********@gmail.com	Present
7	Sh Lalit Kapur	Member (EAC)	lka********@yahoo.com	Present
8	Sh Savalge Chandrasekhar	Member (EAC)	sav*****@gmail.com	Present
9	Prof Shyam Shanker Singh	Member (EAC)	sin********@gmail.com	Present
10	Dr Vinod Agrawal	Member (EAC)	vin*****@yahoo.com	Present
11	Prof R M Bhattacharjee	Member (EAC)	rmb**********@iitism.ac.in	Absent
12	Shri Prasoon Gargava	Scientist F	pra*********@nic.in	Present
13	Shri Harmeet Sahaney	Scientist E	har**********@gmail.com	Absent

Ministry of Environment, Forest and Climate Change
Impact Assessment Division
(Thermal sector)

Date of zero draft MoM sent to Chairman: 01/06/2025
Approval by Chairman: 02/06/2025
Uploading on PARIVESH: 03/06/2025

SUMMARY RECORD OF THE TWENTY FIFTH (25TH) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 27TH MAY 2025 FOR ENVIRONMENT APPRAISAL OF THERMAL SECTOR PROJECTS THROUGH PHYSICAL MODE.

27TH MAY, 2025 [TUESDAY]

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.), Chairman, Expert Appraisal Committee (Thermal Power & Coal Mining) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of members who participated in the meeting is at **Annexure – I**. The Standard/Generic ToR conditions shall be system generated through the PARIVESH Portal.

Confirmation of the Minutes of the 24th Meeting of the EAC (Thermal): The minutes of the 24th meeting of the EAC (Thermal) held on 29/04/2025 has been confirmed by the EAC as uploaded on Parivesh.

Agenda No 25.1

25.1 Proposed Waste to Energy Thermal Power Project of capacity 30 MW by **M/s Jindal Urban Waste Management (Bawana) Limited** located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, **District North Delhi, Delhi – Environment Clearance – regarding.**

[Proposal No. IA/DL/THE/536932/2025; F. No. J-13012/04/2023-IA.I (T)]

25.1.1: M/s Jindal Urban Waste Management (Bawana) Limited has made an online application vide proposal number IA/DL/THE/536932/2025 dated 12/05/2025 along with copy of EIA/EMP report, CAF (Part A, B & C) and sought for Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project/activity is listed at item no. 1(d) Thermal Power Plants of the schedule of the EIA Notification, 2006 and falls under Category 'A'. Further, the proposed project/activity also attracts the general condition of the EIA Notification, 2006 as the project site is located at a distance of 4.48 KM from Delhi-Haryana State boundary in NNW direction.

Name of the EIA Consultant: M/s Mantec Consultants Pvt. Ltd [S. No. 144, List of ACOs with their Certificate / Extension Letter no NABET/EIA/23-26/RA 0305_Rev.01 Valid up to April 20, 2026].

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

25.1.2: The instant proposal of M/s Jindal Urban Waste Management (Bawana) Limited is for setting up of Waste to Energy (WTE) Thermal Power Project with a capacity 30 MW at Delhi State Industrial and Infrastructure Development Corporation Limited (DSIIDC) Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi.

25.1.3: The details of the Terms of Reference (ToR) obtained for the above project for prearation of EIA/EMP report is furnished as below:

Proposal No with Date	Consideration	Details	Date of accord	ToR Validity
IA/DL/THE/435160/2023dated 11/08/2023	2nd meeting of EAC– Thermal held on 31/10/2023	Terms of Reference	10/01/2024	4 years

25.1.4: Environmental site settings:

S. No.	Particulars	Details	Remarks
1.	Total Land	15.0 Acres (or) 6.07 Ha – Government Land	Land Use: Industrial Purpose Located at DSIIDC Industrial Area, Sector-5, Bawana, Delhi
2.	Land Use breakup	**Details** / **Area Break up (Acres)** / **Percentage (%)** TPP Site: 7.84 / 52.27 Admin Office & Canteen: 0.3 / 2.0 Greenbelt Area: 6.0 / 40.0 Others: 0.86 / 5.73 Total: 15 acres (or) 6.07 Ha / 100%	• Land Use: Industrial Purpose. • At DSIIDC Industrial Area, Sector-5, Bawana, Delhi-110039.
3.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 & 20/02/2025	The land requirement for the project is 6.07 Ha (or) 15 acres which is a Government land.	The land has been provided by Municipal Corporation of Delhi (MCD) to M/s. Jindal Urban Waste Management

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th><th>Remarks</th></tr>
<tr><td></td><td></td><td></td><td>(Bawana) Limited vide concession agreement dated 27/02/2025.</td></tr>
<tr><td>4.</td><td>Existence of habitation & involvement of R&R, if any.</td><td><u>Study Area:</u>
<table><tr><th>Habitation</th><th>Distance</th></tr><tr><td>JJ Colony</td><td>Within 1 Km</td></tr><tr><td>Iradat Nagar alias Naya Bans</td><td>Within 05 Km</td></tr><tr><td>Holambi Khurd</td><td></td></tr><tr><td>Holambi Kalan</td><td></td></tr><tr><td>Sanoth</td><td></td></tr><tr><td>Ghoga</td><td></td></tr><tr><td>Khera Khurd</td><td></td></tr></table></td><td>• The proposed project is within the DSIIDC Industrial Area, Bawana
• The land for the project is allocated by the MCD.
• It does not involve R&R issue.</td></tr>
<tr><td>5.</td><td>Latitude and Longitude of all corners of the project site.</td><td><u>Plant Site:</u>
<table><tr><th>Point</th><th>Lat.</th><th>Long.</th></tr><tr><td>A.</td><td>28°47‘41.49"N</td><td>77°3’42.51"E</td></tr><tr><td>B.</td><td>28°47’46.08"N</td><td>77°3’36.54"E</td></tr><tr><td>C.</td><td>28°47’53.53"N</td><td>77°3’43.80"E</td></tr><tr><td>D.</td><td>28°47’49.56"N</td><td>77°3’48.06"E</td></tr><tr><td>E.</td><td>28°47’47.84"N</td><td>77°3’47.27"E</td></tr><tr><td>F.</td><td>28°47’47.12"N</td><td>77°3’47.43"E</td></tr><tr><td>G.</td><td>28°47’46.70"N,</td><td>77°3’47.84"E</td></tr></table></td><td>-</td></tr>
<tr><td>6.</td><td>Elevation of the project site</td><td>The project site elevation varies from 248 m to 236 m above mean sea level (msl)</td><td>-</td></tr>
<tr><td>7.</td><td>Involvement of Forest land if any</td><td>No</td><td>-</td></tr>
<tr><td>8.</td><td>Water body (Rivers, Lakes, Pond, Nala, Natural Drainage, Canal etc.) exists within the project site as well as study area</td><td>• A natural nallah is passing through the project site.
• Western Yamuna Canal is located at approx. 32 meters from the project site in South-West direction.
<u>Protection measures:</u>
• MSW will be stored in a closed pit to prevent cross-contamination</td><td>No perennial river passing, only regulated canal passing by near to the project site.</td></tr>
</table>

S. No.	Particulars	Details	Remarks
		• Fly ash and bottom ash securely stored in closed silos • Fuel oil tanks equipped with dykes and spill collection pits • Nallah passing through the site will not be diverted • Development of a green belt along the surrounding nallah/stream • Stormwater from open storage areas will be routed through pits for effective silt collection	
9.	Existence of ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve etc. if any within the study area	There is no National Park, Wildlife Sanctuary etc. within study area.	-
10.	Archaeological sites, monuments/ historical temples, etc.	None	-
11.	Involvement of Critically Polluted Area/ Severely Polluted area as per 2018 CEPI score	No	-

25.1.5: The salient features of the proposed WTE project is given as below:

The technology proposed to be employed for this WTE project is RDF combustion based reciprocating forward feed grate technology. The power plant constitutes Material Recovery Facility (Pre-sorting), RDF fuel Pit, Incinerators, Boilers, and Steam Turbine Generators with power generation total capacity of 30 MW±6MW. Air cooled condensers (ACC) are to be used in lieu of water-cooled condenser (WCC). The rejects/generated bottom ash will be processed in the bottom ash processing plant. After the processing materials which are not recyclable for further processing will be sent to Sanitary Landfill. Fly ash will be sent to the secured landfills site designated by MCD. The air pollution control system will consist of Flue Gas Treatment System which includes Adsorption of acidic components and other pollutants by lime and Activated carbon in turbo reactors and filtration of dust particles through bag filters. Wastewater & leachate

generated from the WTE plant will be treated in the Leachate Treatment Plant. The treated wastewater will be recycled to DM plant and rejected water for quenching of bottom ash. The green belt area will be developed in an area of 6 acres all along the periphery of the project site. .

- Total MSW feed : 3000 TPD
- Power Plant capacity : 30 MW ± 6 MW
- RDF Processing Capacity : 700 TPD per unit (2x700 TPD for two units)
- Auxiliary power consumption : 10 to 15% of total power generation
- Saleable Power to Grid : 85 to 90%
- Calorific Value of Fuel : 1600 kcal/kg and above based on RDF quality
- Export grid voltage : 66 kV
- Grid Interconnection : DTL Bawana Substation (220/66 kV)
- Furnace and boiler type
    - Upward grate system
    - 99.9% Combustion rate (less than 10 ppm of CO)
    - Low NOX generation design – secondary air control
    - Flue gas Cooling system
    - Hydrated lime dosing system for SO_2 control
    - Stack of 60 meter height

The description of process involved in the generation of electricity from municipal waste is given below:

- MSW receiving
- Pre Segregation and preparation of RDF
- Heat Recovery & Steam Generation in the boiler
- Power Generation & exporting to grid
- Flue Gas Cleaning System
- Leachate Treatment

Overall mass balance

Description	Quantity (Tons Per Day)	% fraction
Total Waste for processing	3000 ton	100 %
Green Waste by bio-methanation process	600 ton	20 %
Total MSW Processed for RDF	2,400 ton	80 %
Total RDF to storage	1,400 ton	58 %
Inerts removal in processing	295 ton	12%
Leachate recovered	357 ton	15 %
Moisture	343 ton	14 %
Compost	4 ton	0.17 %
Recyclables	2 ton	0.08 %

Note: 20 to 25 percentage variations on the MSW feed quality are envisaged.

25.1.6: Fuel requirement: The details of the municipal solid waste requirement for the proposed project along with its source and mode of transportation is given as below:

Details	Fuel requirement (TPD)	Source	Distance from site (Kms)	Mode of Transportation	Linkage document
1.	3000 Municipal Solid Waste	Municipal Corporation of Delhi	Approx. 12 Kms	Road	Concession Agreement with MCD

25.1.7: Water requirement: The water requirement for the proposed project during operation phase is estimated as 625 m^3 /day and approx. 7 m^3/day of fresh water will be required for domestic purposes which will be met by the DJB. Requirement of water for industrial usage will be met from the blowdown reject water from the Pragati Power Corporation Limited (PPCL) or treated sewage from STP, DJB. There will be no use of ground water in the process or for domestic use for the proposed project.

Operation Phase:

- Fresh water – 7 m^3/day
- Blowdown reject water from the PPCL/Treated sewage from STP, DJB – 625 m^3/day
- Treated Leachate water – 357 m^3/day

25.1.8: Power requirement: The power requirement during construcytion shall be met from the nearest construction power source i.e., Tata Power Delhi Distribution Limited (TPDDL). During operation phase, power consumption shall be 10–15 % of the generated power. A 750 kVA DG set is envisaged which will be used in case of grid failure.

25.1.9: Baseline Environmental Studies with proposed mitigation measures

Period	March, 2023 to May, 2023	Additional Study (if any)
AAQ parameters at 8 Locations (min and max)	**$PM_{2.5}$** = 46.0 To 228.0 µg/m^3 **PM_{10}** = 77.0 To 380.0 µg/m^3 **SO_2** = 5.0 to 18.0 µg/m^3 **NO_x** = 14.0 To 32.0 µg/m^3 **CO** = 0.52 To 0.84 mg/m^3	-
Incremental GLC level	**PM** = 1.604 µg/m^3 (Level at 0.96.km in South Direction) **SO2** = 6.418 µg/m^3 (Level at 0.96.km in South Direction) **NO_x** = 12.837 µg/m^3 (Level at 0.96.km in South Direction) **Proposed mitigation measures** • Presence of PVC waste is significant, hence the release of HCl, Dioxins and furans will be less significant (below 0.1 ngTEQ/Nm^3) • Hydrated lime and activated carbon injection in the post-combustion stage to control SO_2 and HCl • 130% design capacity of PTFE Bag Filter House, • PM, SO_2, and NOX emissions will be maintained within the levels of 50 mg/Nm^3, 200 mg/Nm^3, and 400 mg/Nm^3, respectively, as per SWM Rules, 2016 norms • Continuous Emission Monitoring System (CEMS) will be installed on the stack • CAAQMS will be installed at the site • Provision for Selective Non-catalytic Reduction for Nox Control **Odour control measures** • Negative Pressure Ventilation in the MSW collection pit • Ventilation air from MSW pit will be fired in the boiler • Fogging unit/mist system & herbal solution spray • Odour assessment will be undertaken during the operational phase as per EN 16841-1 standards	-
Ground water quality at 8 locations	pH: 7.11 to 7.58, Temperature- 19 degree C to 22 degree C, Turbidity- 1.0 to 1.6 NTU, TDS-232.0 to 698.0 mg/l, Alkalinity as CaCO3-188 to 232.0 mg/l, Total Hardness: 134 to 250 mg/l, Mercury-<0.0005 mg/l, Selenium-<0.002 mg/l, Zinc-<0.01 mg/l, Chlorides: 62.00 to 84.00 mg/l, Fluoride: 0.57 to 0.81 mg/l, Sulphate-44.0 to 58.00 mg/l, Nitrate-10.20 to 13.80 mg/l, Cyanide-<0.01 mg/l, Free	-

Period	March, 2023 to May, 2023	Additional Study (if any)
	Residual Chlorine- <0.1 mg/l, Phenolics-<0.001 mg/l, Calcium- 56.20 to 72.0 mg/l, Aluminium-<0.03 mg/l, Total Arsenic-<0.002 mg/l, Cadmium-<0.001 mg/l, Boron-<0.05 mg/l, Total Chromium-<0.002 mg/l, Iron - 0.0 to 0.01 mg/l, Copper-<0.002 mg/l, Lead-<0.002 mg/l, Manganese-<0.02 mg/l, Faecal Coliform-<2 MPN/100 ml.	
Surface water quality at 8 locations	pH-7.02 to 7.34, TDS-233.0 to 311.0 mg/L, BOD-10.0 to 20 mg/L. DO-5.50 to 6.40 mg/L, Total Hardness as CaCO3 130.0 196.0 mg/L. Temperature – 19.0 degree C to 21.0 degree C TSS-2.0 to 6.0 mg/l, Chloride-28.0 to 60.0 mg/l, Fluoride-0. to 0.67 mg/l, Sulphate- 26.0 to 46.0 mg/l, Nitrate- 7.20 to11. mg/l, Cyanide-<0.01 mg/l, Phenolic Compounds-<0.001 mg Total Arsenic-<0.002 mg/l, Calcium-102.0 mg/l to 142.0 mg Magnesium-28.0 to 56.0 mg/l, Cadmium-<0.001 mg/l, To Chromium-<0.002 mg/l, Iron- 0.01 to 0.01 mg/l, Copp <0.002 mg/l, Lead-<0.002 mg/l, Manganese-<0.02 mg Mercury-<0.0005 mg/l, Selenium-<0.002 mg/l, Zinc-<0. mg/l, Total Coliform- 490.0 to 1770.0 MPN/100 ml	-
Effluent generation details and its treatment	Effluent sent to CMB – 382 m^3/day Leachate (357 m^3/day & sewage generation 3m^3/day) – 360 m^3/day 1. Leachate 2. Cooling Tower Blow down 3. Boiler Blowdown 4. Other industrial effluents Mode of treatment 1. Leachate Treatment Plant through **RO** 2. Central Monitoring Basin (CMB) Mode of reuse 1. 100% reuse of treated effluent & leachate 2. Treated water for FGCS & gas cooling, dust suppression and ash quenching 3. Green belt development 4. Domestic wastewater will be used as seed for LTP Zero liquid discharge will be adopted.	-
Noise levels Leq (Day and Night)	42.6 dB (A) to 54.8 dB (A) for the day time and 36.8 dB (A) to 42.6 dB (A) for the Night time. **Control measures:**	

Period	March, 2023 to May, 2023	Additional Study (if any)
	• Acoustic walls for the control room, office rooms, and canteen will be provided • A mandatory PPE policy will be adopted in high-noise zones such as TG rooms • Audiometric tests for all persons working at high noise zones	
Traffic assessment study findings	The traffic study was performed on NH-344 M which is connected to project site and traffic load NH-344 M was found to be moderate as per the respective road classification. The condition of the existing road is good.	-
Soil Quality at 8 Locations	**Bulk density:** 1.49 to 1.72 gm/cm^3; **pH:** 6.22 to 7.66; **Electrical conductivity (EC);** 238 to 324 µmhos/cm; **Calcium content:** 2.59 to 3.34 mg/100 gm; **Sodium:** 3.7 to 6.1 mg/100 gm; **Potassium:** 191.74 to 231.62 kg/ha; **Nitrogen:** 311.58 to 366.46 kg/ha; **Phosphorous:** 13.89 to 19.94 kg/ha; **Cation Exchange Capacity (CEC):** 6.64 to 10.72 meq/100gm; **Organic Matter:** 1.23% to 1.74%	-
Flora and fauna	61 Flora and 56 Fauna were found in the study area. As per the Wildlife Protection Act 2022, **Three Schedule-I**, species • *Pavo cristatus*, • *Herpestes javanicus* and • *Accipiter badius* are found in the study area and Wildlife Conservation Plan has been prepared and submitted to DFO for their approval. **Rs 54 Lakhs** has been allocated for the Conservation Plan.	-
Hydrogeology study	• Bawana's aquifer systems predominantly consist of shallow alluvial aquifers. • The hydrogeological setup includes unconfined to semi-confined aquifers, primarily composed of sand, silty sand, and kankar horizons. • The depth of water level during Pre-Monsoon ranges from 1.25 mbgl to 66.01 mbgl. • The depth of water level during Post Monsoon ranges from 0.62 mbgl to 66.75 mbgl. • The source of water is reject blowdown water from the M/s Pragati Power Corporation Limited • No groundwater will be withdrawn from any natural water bodies. • Hence, there will be no impact on groundwater regime.	M/s Mantec Consultants Pvt. Ltd., Noida

<table>
<tr><th>Period</th><th>March, 2023 to May, 2023</th><th>Additional Study (if any)</th></tr>
<tr><td></td><td>
A total of 5,085.3 m³ per annum will be harvested and supporting sustainable water management.
Rain water haversting
<table>
<tr><td>Total Built-up Area</td><td>7,539 m^2</td></tr>
<tr><td>Annual rainfall</td><td>674.5 mm/year</td></tr>
<tr><td>Annual rainfall</td><td>0.6745 m</td></tr>
<tr><td>Roof yield per annum</td><td>5,085.3 m^3/year</td></tr>
</table>
</td><td></td></tr>
<tr><td>Impact study on biodiversity and aquatic ecology</td><td>

The project is based on ZLD concept and there will be no effluent discharge from the plant.
Since, there is no major aquatic system in the area, the chances of impact on aquatic ecology would be insignificant.
Minimum 40% greenbelt / green cover of the total project area will be developed as per CPCB guidelines. Plantation will be done in consultation with the local Forest Department.
The excavated soil from the project site should be kept separately and can be used to boost restoration and green plantation activity.
Planting fruit bearing tree for avifauna and other faunal species.
Western Yamuna Canal is flowing adjacent to the project site. Utmost precaution should be taken to ensure no leakage or discharge of effluent takes place.
All vehicles inside the project site should maintain speed limit and will not blow horn unless it is required.
Awareness will be given to workers about the importance and conservation of terrestrial ecology and biodiversity.
Extensive plantation should be undertaken in an around the project site.

</td><td>M/s Mantec Consultants Pvt. Ltd., Noida</td></tr>
<tr><td>Risk assessment study</td><td>

Only flammable material is diesel/LDO for operations for 25 KL which will be provided with dykes and firefighting systems.
Fire water pumps shall be installed along with adequate water storage capacity.

</td><td>M/s Mantec Consultants Pvt. Ltd., Noida</td></tr>
</table>

Period	March, 2023 to May, 2023	Additional Study (if any)
	• Ensure Inspection and Maintenance of Pipelines of Boiler and other related equipments/instruments/connections like safety device, water level indicator, flanges etc. to avoid boiler explosion. • Special precautions like SOP will be considered during start-up and shut down failure of which may lead to fire box explosion/boiler explosion. • Periodical inspection and calibration of various types of electronic instruments shall be followed. • Ensure effective monitoring of the power plant safety. • Effective housekeeping to be maintained in the plant. • MSDS of the chemicals should be present at strategic locations and workers should be well trained to handle that chemical with appropriate PPE. • Gas monitoring equipments to be connected to the alarm (flammable oil). • Periodic Inspection and Maintenance of Fire Alarm & Fire Detection System to ensure its working when in need. • Periodic rehearsal of mock drill to ensure readiness to handle any emergency situation. • All safety precautions (SOP etc.) to be followed in any type of operation in the plant to avoid accidental situations. • Special precautions like no use of match boxes, cigarette lighters etc. also be followed to avoid fire in LDO storage area, loading/unloading of LDO tanker area. • SOP to be followed during loading/unloading of LDO to storage tank. LDO Tankers to be fitted with flame arrestors. Earthing/bonding during loading/unloading to be considered to avoid any static charge generation. • As per NFPA-85E, it is believed that improved instrumentation, safety interlocks and protective devices, proper operating sequences and a clearer understanding of the problem by both designers and operators can greatly reduce the risks and actual incidence of furnace/boiler explosions.	

Period	March, 2023 to May, 2023	Additional Study (if any)

Epidemiological Study	Recommendations
	• **Health Interventions**:
	  • Strengthen primary healthcare services and disease surveillance in the Bawana area.
	  • Focus on prevention and early diagnosis of both communicable and non-communicable diseases.
	• **Nutritional Support**:
	  • Implement nutrition education and supplementation programs targeting deficiencies.
	• **Awareness Programs**:
	  • Promote healthy lifestyle practices to reduce tobacco and alcohol use, especially among youth.
	• **Community Engagement**:
	  • Involve the community in health education, sanitation improvement, and participatory health planning.
	Action plan:
	Within the facility operations
	• Annual medical tests for the workers who are directly exposed to MSW handling
	• Tie-ups with local hospitals for annual health checkups for all persons working in high-hazard areas
	• Masks and hand sanitation program for persons working in the MSW handling area
	• Health insurance coverage for all employees and workers working at the facility
	• Strict implementation of ESI policy for the contract workers
	Within a 5 Km radius
	• Ambient air quality monitoring at three locations
	• Collaborating with other WtE operators in the area to conduct periodic epidemiological studies in association with local authorities
	• Conducting awareness programs on the health and hygiene aspects
	JUIL allocated Rs. 55 Lakhs towards various community healthcare support initiatives
		International Institute of Health Management Research (IIHMR), New Delhi

25.1.10: The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

Type of Waste	Source	Quantity (Daily) Metric Tons (MT)	Mode of Transportation	Disposal Method	Remarks
Recyclable	Process	2 MT	Road	Will be sold to registered recyclers	-
Manure (from composting)	Process	4 MT	Road	Used as compost/soil conditioner	Agreement with local farmers and horticulture departments will be made
Bottom Ash & Inert		408 MT	Road	Used for road construction and any unutilized material will be sent to ESLF	-
Fly Ash	Process	72 MT	Road	Supplied to cement industries/ash brick manufacturers and unutilized material will be sent to ESLF	-
Used Oil	Machineries	4 MT	Road	Wil be sold to registered recyclers	-

25.1.11: Public Consultation:

Details of advertisement given	Nav Bharat Times, Delhi (Hindi) - 26.11.2024 & Times of India (English) -26.11.2024
Date of public consultation	27.12.2024 at 11:00 A.M. to 1:00 P.M
Venue	Proposed Waste to Energy Project (30 MW), adjacent to TSDF for Hazardous Waste, Sector-5 Bawana, Delhi-110039.
Presiding Officer	Additional District Magistrate (North District), Govt. of NCT of Delhi.
Major issues raised	Air Pollution, Health, Employment, Waste Handling and Management etc.
No. of people attended	• About 300 People • 34 No. of Representations / Responses (Letters - 05 Nos & Emails - 29 Nos) received from the Public after 26.12.2024

As per the Public hearing minutes, about 300 nos. of people attended the public hearing and nearly 40 people signed the attendance register. 685 responses (677 through e mail and 3 through post)

were received from the public till 26.12.2024 and 5 representations were received during the public hearing. The abstract of the same is below,

In support: 334 Nos.
Oppose: 351 Nos.

S.N	Name	Response
1	People's Alliance for Waste Accountability (PAWA) peoplesallianceforwasteacc@gmail.com	Oppose
2	vkdn51284@gmail.com	Oppose
3	PUNEET VERMA puneetverma3may@gmail.com	Oppose
4	Ajay Sardana (8860380911) ajaysardana7@gmail.com	Oppose
5	BK Singla (9810886322) baldevksingla@gmail.com	Oppose
6	PAWAN BATRA pawan07batra@yahoo.co.in	Oppose
7	PAWAN BATRA pawan07batra@yahoo.co.in	Oppose
8	shahbazsaifi254@gmail.com	Oppose
9	Ravinder Kumar H.N.145 Village Sanoth, Delhi. ravindermahura@gmail.com	Oppose
10	Tarsem Singh (9810012402) kwality.tarsem@gmail.com	Support
11	sahilseh009@gmail.com	Oppose
12	samarseh0405@gmail.com	Oppose
13	Hardik Dhochak hardikdhochak3813@gmail.com	Oppose
14	mkchahal111@gmail.com	Oppose
15	mkchahal111@gmail.com	Oppose
16	vinudelhi006@gmail.com	Oppose
17	surendersingh09899@gmail.com	Oppose
18	Bablu nirwal99999@gmail.com	Oppose
19	Surender Singh Dabas surendersingh3193520m@gmail.com	Oppose
20	vkdn51284@gmail.com	Oppose
21	amitkumar15774439@gmail.com	Oppose
22	alexmercy112233@gmail.com	Oppose
23	sharawat.sunil@gmail.com	Oppose
24	Yogesh Chahal(Village Sanoth) yogeshchahal08@gmail.com	Oppose
25	Rajpal singh rajpalsaini01081957@gmail.com	Oppose
26	rk025214@gmail.com	Oppose

S.N	Name	Response
27	vickykajla624@gmail.com	Oppose
28	shivkumar101110@gmail.com	Oppose
29	chanderkala95964@gmail.com	Oppose
30	sahilparjapati9990@gmail.com	Oppose
31	devsehrawat935@gmail.com	Oppose
32	rahulparjapati938@gmail.com	Oppose
33	ashokkhatri.ak@gmail.com	Oppose
34	Jai prakash (9717319552) Village khera kalan Delhi 110082 jai.rana005@gmail.com	Oppose
35	dabasp84@gmail.com	Oppose
36	haribhura9@gmail.com	Oppose
37	bhuraraja89@gmail.com	Oppose
38	jk45447@gmail.com	Oppose
39	ahmedanish526@gmail.com	Oppose
40	rajabhura656@gmail.com	Oppose
41	nirwalvirat029@gmail.com	Oppose
42	baldevatal27@gmail.com	Oppose
43	mk8324090@gmail.com	Oppose
44	sj2536894@gmail.com	Oppose
45	deepsaini001.ds@gmail.com	Oppose
46	deepsaini0001.ds@gmail.com	Oppose
47	panditjionln@gmail.com	Oppose
48	Abhishek Vats anjuabhivats@gmail.com	Oppose
49	ramphalvats2@gmail.com	Oppose
50	av4743377@gmail.com	Oppose
51	preranavats89@gmail.com	Oppose
52	ssaini0764@gmail.com	Oppose
53	ahmedanish526@gmail.com	Oppose
54	bhurahari@gmail.com	Oppose
55	meenalalitkumar1987@gmail.com	Oppose
56	sheleshraghav2008@gmail.com	Oppose
57	yashvats098@gmail.com	Oppose
58	ee.hce14011002005@gmail.com	Oppose
59	gkb1473@gmail.com	Oppose
60	Sandeep sn.icfai@gmail.com	Support
61	saini00pankaj@gmail.com	Oppose
62	tanishthakran163@gmail.com	Oppose
63	Shekhar luckymanwall@gmail.com	Support
64	Ravi Kant Singh parthkrsh136@gmail.com	Support

S.N	Name	Response
65	Sambit sambitsaswat87@gmail.com	Support
66	Gaurav Singh gauravvsingh710@gmail.com	Support
67	Simran Walia simranwalia356@gmail.com	Support
68	chandswam7@gmail.com	Oppose
69	P.S.Bisht - Resident of Narela prn_bisht@rediffmail.com	Support
70	Ramu Goyal ramugoyal@outlook.com	Support
71	d.nirwal@yahoo.com	Oppose
72	Nirakar nira.sahu.321@gmail.com	Support
73	souravbarkandaj3@gmail.com	Oppose
74	souravbarkandaj3@gmail.com	Oppose
75	Manoj Agarwal manoj130575@gmail.com	Support
76	krishanmalik148@gmail.com	Oppose
77	Megha meghashastri25@gmail.com	Support
78	yogicame92@gmail.com	Oppose
79	Vinod Yadav (9873989036) vinodyadav564@gmail.com	Oppose
80	Ramesh ramesh1055@gmail.com	Support
81	Sachin Dhingra sachindhingra@gmail.com	Support
82	akashswami56@gmail.com	Oppose
83	ashoknirwal528@gmail.com	Oppose
84	nirwalvarun19@gmail.com	Oppose
85	bhupendernohwal08@gmail.com	Oppose
86	mukeshattri42@gmail.com	Oppose
87	rathicablenetwork14@gmail.com	Oppose
88	rathicablenetwork14@gmail.com	Oppose
89	rathicablenetwork14@gmail.com	Oppose
90	vatsavinash1994@gmail.com	Oppose
91	tridevroadlines9312@gmail.com	Oppose
92	vvats0887@gmail.com	Oppose
93	rakesh391973@gmail.com	Oppose
94	attripandit@gmail.com	Oppose
95	heenasaini1698@gmail.com	Oppose
96	surendersingh09899@gmail.com	Oppose
97	vatsboy6490@gmail.com	Oppose

S.N	Name	Response
98	manjeetkajla5627@gmail.com	Oppose
99	sainiuma266@gmail.com	Oppose
100	jyotipanchal26061998@gmail.com	Oppose
101	jyotipanchal26061998@gmail.com	Oppose
102	rockchahal0695@gmail.com	Oppose
103	akashnimesh9873@gmail.com	Oppose
104	pashu7204@gmail.com	Oppose
105	psaini.advocate@gmail.com	Oppose
106	inspiringm98@gmail.com	Oppose
107	saritasaini151979@gmail.com	Oppose
108	factorymotivation92@gmail.com	Oppose
109	Sonam sonamsharam0769@gmail.com	Oppose
110	Sonam sonamsharam0769@gmail.com	Oppose
111	Sonam sonamsharam0769@gmail.com	Oppose
112	atulvats087@gmail.com	Oppose
113	attrivansh3@gmail.com	Oppose
114	sanjaykumar9121976@gmail.com	Oppose
115	paramjeetsinghsaab33@gmail.com	Oppose
116	dheerajgautam58@gmail.com	Oppose
117	ksaurabh4234@gmail.com	Oppose
118	ksaurabh4234@gmail.com	Oppose
119	ksaurabh4234@gmail.com	Oppose
120	vikasnarwal52661@gmail.com	Oppose
121	manish27aug@gmail.com	Oppose
122	mannuv4719@gmail.com	Oppose
123	vaibhav.gautam90@gmail.com	Support
124	lalitatalpl@gmail.com	Oppose
125	Mohit verma mohitverma1mv4@gmail.com	Support
126	himsain1201@gmail.com	Oppose
127	bhardwaj2002ankit@gmail.com	Oppose
128	Ashish ashish08saini@gmail.com	Oppose
129	himsain1201@gmail.com	Oppose
130	poojasaini3855@gmail.com	Oppose
131	kkchahal51019@gmail.com	Oppose
132	ashishnirwal0710@gmail.com	Oppose
133	dineshnirwal4949@gmail.com	Oppose
134	rajpalsaini01081957@gmail.com	Oppose
135	amitatal71@gmail.com	Oppose
136	n7701906373@gmail.com	Oppose
137	n7701906373@gmail.com	Oppose

S.N	Name	Response
138	honeynarwal142@gmail.com	Oppose
139	kumarvirender77030@gmail.com	Oppose
140	deepaknirmal8891@gmail.com	Oppose
141	sanjay.electricalworks1972@gmail.com	Oppose
142	nikitaagarwal3103@gmail.com	Support
143	sonu1988gir@gmail.com	Oppose
144	rajeshseema1976@gmail.com	Oppose
145	Gopal Gosadan Harevali gosadanharewali@gmail.com	Oppose
146	Gopal Gosadan Harevali gopalgosadanharewali@gmail.com	Oppose
147	rnjeetsingh1972@gmail.com	Oppose
148	nikhilesh56@gmail.com	Oppose
149	ntnkhatri6@gmail.com	Oppose
150	jindal.shubham9111@gmail.com	Oppose
151	chiragbabbariws@gmail.com	Oppose
152	rahulsingh7june2000@gmail.com	Oppose
153	rahulpanchal7june2000@gmail.com	Oppose
154	nikhilgupta330@gmail.com	Oppose
155	Shivam Mangal #9810080568 sammangal1996@gmail.com	Oppose
156	rahulballb040@gmail.com	Oppose
157	nirwal99999@gmail.com	Oppose
158	manishranga9314@gmail.com	Oppose
159	Shubham Mathur mathur.mathur36@gmail.com	Support
160	shaktinarwal@ymail.com	Oppose
161	brajesh1608@gmail.com	Oppose
162	amitswami882@gmail.com	Oppose
163	luckynohwal88@gmail.com	Oppose
164	gauravatal8585@gmail.com	Oppose
165	Jitender yadavjiten9007@gmail.com	Oppose
166	priyankasaini.bemine@gmail.com	Oppose
167	Sumit Rohini, Sector-24, pocket-1, Delhi-110086. cmasumitkumar100@gmail.com	Support
168	bhuraraja89@gmail.com	Oppose
169	jeetsinghkajla3251@gmail.com	Oppose
170	krishannirwal6@gmail.com	Oppose
171	krishannirwal6@gmail.com	Oppose
172	saurabhs659@gmail.com	Oppose
173	Vinod Mann (9654963828) mannvinod26@gmail.com	Oppose
174	singhgautam793@gmail.com	Oppose
175	tmsvansh5609@gmail.com	Oppose
176	sharmababita3700@gmail.com	Oppose

S.N	Name	Response
177	komalmathur1498@gmail.com	Oppose
178	monikamathurabc@gmail.com	Oppose
179	baburamnathiya@gmail.com	Oppose
180	anshunirwal111@gmail.com	Oppose
181	drdeepakspb@gmail.com	Oppose
182	deepaktalksalot@gmail.com	Oppose
183	drdeepakspb1986peter@gmail.com	Oppose
184	drorthodeepak@gmail.com	Oppose
185	Yagesh Nohwal yageshsingh5@gmail.com	Oppose
186	Siya sector-24, Rohoni, Delhi-110086 sumitkadian1992@gmail.com	Support
187	Brijesh Kumar H.No. 74, Village Sanoth Delhi-110040 b.raj.sai@gmail.com	Oppose
188	99raghubirsingh99@gmail.com	Oppose
189	rupeshsharma81@gmail.com	Support
190	yashnirwal018@gmail.com	Oppose
191	Nitish Mishra (9968590635) nitsss008@gmail.com	Support
192	mkchahal111@gmail.com	Oppose
193	kumarlalit26905@gmail.com	Oppose
194	loveneet112@gmail.com	Oppose
195	Anuj Kumar Pandey (Students of Environmental Science) Resident of D-14/181, Pocket 13, Sector 8, Rohini, New Delhi, 110085. mr.anujpandey2003@gmail.com	Support
196	sangamxray@gmail.com	Oppose
197	skardam2003@gmail.com	Oppose
198	jatinnemash27@gmail.com	Oppose
199	Pintu Giri (9560424372) giriofficial14@gmail.com	Support
200	kushalkaryashala@gmail.com (+919671675656)	Support
201	Ramniwas Sehrawat M : 9811353570 ramniwas.sharawat@gmail.com	Oppose
202	anshunirwal111@gmail.com	Oppose
203	jsvats1962@gmail.com	Oppose
204	tmsvansh5609@gmail.com	Oppose
205	Yogeshwar 9891438020 yogesh_natraj@yahoo.com	Support

S.N	Name	Response
206	monikamathurabc@gmail.com	Oppose
207	sukhdevdabas@gmail.com	Oppose
208	Mohd Ishrar (student) mohdishrar9773@gmail.com	Oppose
209	रोहित सहनी पता होलंबी कलां rk3247175@gmail.com	Oppose
210	रोहित सहनी पता होलंबी कलां rk3247175@gmail.com	Oppose
211	sushilnohwal8010@gmail.com	Oppose
212	parveennirwal5@gmail.com	Oppose
213	rajeevkumar4483@gmail.com	Oppose
214	Preet Narwal House Number 275 Near Community Hall Sannoth,Delhi-110040 8384048851 narwalpreet2@gmail.com	Oppose
215	tapeshwarshah61@gmail.com	Oppose
216	shilpinirwal97@gmail.com	Oppose
217	rajeshnarwal94@gmail.com	Oppose
218	golushah87342@gmail.com	Oppose
219	shilpinarwal8@gmail.com	Oppose
220	akashali800@gmail.com	Oppose
221	ankit7533098342@gmail.com	Oppose
222	Rinku Resident of Sanoth rinkupanchal25121992@gmail.com	Oppose
223	chintuvats30@gmail.com	Oppose
224	kunalkhatri.19@gmail.com	Oppose
225	pandabhutki9@gmail.com	Oppose
226	anil2291prasad@gmail.com	Oppose
227	anil2291prasad@gmail.com	Oppose
228	honeparam@gmail.com	Oppose
229	parvinderkumar309@gmail.com	Oppose
230	Mohit vats vatsboy6490@gmail.com	Oppose
231	Rajarshi Dev Shukla Professional GIS & Remote Sensing Resident of D-2/135, Pocket 9, Sector 4, Rohini, New Delhi, 110085rajarshidevshukla@gmail.com	Support
232	dinesha.111@gmail.com	Oppose
233	soniknirwal@gmail.com	Oppose
234	Mahender Singh 7082369945 mahendersaini57723@gmail.com	Oppose
235	sucl007@gmail.com	Oppose
236	jaikumarnirwal@gmail.com	Oppose

S.N	Name	Response
237	Pawan Pawar 9873003726 pawan.co.pk@gmail.com	Oppose
238	Rake Vats 9718300866 tridevroadlines9312@gmail.com	Oppose
239	Jagdish Indora 9213198579 jagdishindora1@gmail.com	Oppose
240	priyanshusainidelhi@gmail.com	Oppose
241	umedsingh121948@gmail.com	Oppose
242	Priyanshu saini Holambi khurd delhi-110082 priyanshusainidelhi@gmail.com	Oppose
243	Ramgopal Mahura 9213234902 ramug5052@gmail.com	Oppose
244	Priyanshu saini Holambi khurd delhi-11008220150367159.priyanshu@doe.delhi.gov.in	Oppose
245	rakeshnarwal8360@gmail.com	Oppose
246	kapildhankher18@gmail.com KAPIL DHANKHER	Oppose
247	anuragvats77@gmail.com	Oppose
248	Ujjwal On behalf of the Residents of Sanoth Village Mail id - its.ujjwalgoel@gmail.com Contact -6026891532	Oppose
249	Ujjwal On behalf of the Residents of Sanoth Village Mail id - ujjwalgoel104@gmail.com Contact -6026891532 ujjwalgoel104@gmail.com	Oppose
250	Isha Resident, Bawana ishasehrawat0027@gmail.com	Oppose
251	Isha Resident, Bawana ishasehrawat0027@gmail.com	Oppose
252	Complainant Mehtab Narwal Resident of Sanoth Village msnarwal7599@gmail.com	Oppose
253	Dr.Ratna Raman ratnaraman@svc.ac.in Professor, Department of English Sri Venkateswara College New Delhi -110029	Oppose
254	satyawan96710@gmail.com	Support
255	Adv Amar B-1580, Holambi Kalan, Ph-II	Oppose

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256	luckynohwal88@gmail.com	Oppose
257	sonisonikumar79379@gmail.com	Oppose
258	manavsaini7007@gmail.com	Oppose
259	mr.rajivsaini@gmail.com	Oppose
260	hshoneysing8@gmail.com	Oppose
261	abhinarwal002@gmail.com	Oppose
262	attalv1209@gmail.com	Oppose
263	parvesh10201030@gmail.com	Oppose
264	hshoneysing8@gmail.com	Oppose
265	Alok Kumar Resident of Sannoth Village aloksaini915@gmail.com	Oppose
266	Soniya Resident of Sannoth Village soniyasaini80@gmail.com	Oppose
267	[Asif khan] [Sanoth village] [8130517303, 7990099382] akhan7838@gmail.com	Oppose
268	attalv1209@gmail.com	Oppose
269	shruti saini Resident of Sannoth Village shrutisaini1980@gmail.com	Oppose
270	Ujjwal On behalf of the Residents of Sanoth Village Mail id - ujjwalgoel104@gmail.com Contact -6026891532 ujjwalgoel104@gmail.com	Oppose
271	Rahul +918929510709 indorarahul05@gmail.com	Oppose
272	aloksaini1974@gmail.com	Oppose
273	gouravchahal026@gmail.com	Oppose
274	atalankush4@gmail.com	Oppose
275	attalv1209@gmail.com	Oppose
276	rajeshcrria@gmail.com	Oppose
277	Boby Rana bobyrana7053@gmail.com	Oppose
278	bobynatrana@gmail.com	Oppose
279	bobyroy312@gmail.com	Oppose
280	gouravnirwal2002@gmail.com	Oppose
281	dk915088355@gmail.com	Oppose
282	vatsavinash1994@gmail.com	Oppose

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283	Alok Kumar Resident of Sannoth Village aloksaini915@gmail.com	Oppose
284	tyagiajay027@gmail.com	Support
285	nitinpapnai135@gmail.com	Support
286	meeradeviwifi@gmail.com	Oppose
287	885397at@gmail.com	Support
288	ambujtiwari400@gmail.com	Support
289	ambujtiwari400@gmail.com	Support
290	ambujtiwari400@gmail.com	Support
291	Ranjeet Shukla sundarshukla68@gmail.com	Support
292	s96936215@gmail.com	Support
293	techunlimited06@gmail.com	Support
294	Poornima poornima.gauravgautam@gmail.com	Support
295	Gaurav gauravgautam121018@gmail.com	Support
296	Ravi Kumar Singh rk27121992@gmail.com	Support
297	Sumit Shukla shuklasumit08918@gmail.com	Support
298	Rohan Kumar irohanhere07@gmail.com	Support
299	kartik.saini5184@gmail.com	Oppose
300	Sourabh anand saurabhanand1104@gmail.com	Support
301	amit243334@gmail.com	Support
302	sandeep90.saini@gmail.com	Support
303	Shah Alam ch.shahalam05@gmail.com	Support
304	Ramesh Kumar Ram J.P. Enterprises J-236, sector 1, Bawana rameshkumar0705@gmail.com	Support
305	tdhiraj892.com@gmail.com	Support
306	ajayktrust@gmail.com	Oppose
307	krtarsingh@gmail.com	Support
308	krtarsingh@gmail.com	Support
309	Vijay Bhardwaj M.8506972747 vijayksharma9873@gmail.com	Oppose
310	Mona singh B- 610 Holambi Kalan, Ph-II, Delhi-82 Mobile- 8743064655 monaguatam1234@gmail.com	Oppose

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311	shuklaramashankar439@gmail.com	Support
312	bansalankit406@gmail.com	Oppose
313	Ashish ashishpaul192@gmail.com	Support
314	Rohit tiwari ramrohitravi1990@gmail.com	Support
315	Sushrut Kane sushrut.kane4@gmail.com	Support
316	Balkar balkarsingh226@gmail.com	Support
317	ramrohitravi@gmail.com	Support
318	raj793852@gmail.com	Support
319	Chandra Raj Singh 123chandra.raj@gmail.com	Support
320	ramrohitravi@gmail.com	Support
321	hs7190@dseu.ac.in	Support
322	ankit7533098342@gmail.com	Oppose
323	arunabh30@gmail.com	Support
324	akhlakh.re@gmail.com	Support
325	Prakash kumar B-579 Holambi Kalan, Ph-II, Delhi-82 Mobile:9891772839 parkash.cello1973@gmail.com	Oppose
326	kktag40@gmail.com	Oppose
327	amitabh0901@gmail.com	Support
328	bobbynegi1910@gmail.com	Support
329	jitunegi53@gmail.com	Support
330	swastikdutt@gmail.com	Support
331	duttesha9@gmail.com	Support
332	kaustubh.sidharth74@gmail.com	Support
333	upendra233221@gmail.com	Support
334	suryanshsingh0987@gmail.com	Support
335	gargarpit1980@gmail.com	Oppose
336	qadrizulfikar@gmail.com	Oppose
337	manojbhardwaj1987@gmail.com	Oppose
338	gdeepanshu4@gmail.com	Oppose
339	ankursharmams@gmail.com	Oppose
340	bobyrana7053@gmail.com	Oppose
341	jrajeev06@gmail.com	Oppose
342	Dr.Anjali anjali2111sharma@gmail.com	Oppose
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345	sahil.khatri.8205@gmail.com	Oppose
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347	parsottam99@gmail.com	Support
348	hp95949@gmail.com	Support
349	sudhirkum0763@gmail.com	Oppose
350	nishantvashisth1020@gmail.com	Oppose
351	vaibhav123rohilla@gmail.com	Support
352	satvirgoutam1993@gmail.com	Support
353	S. Kumar san1970jeev@gmail.com	Support
354	Somendra kumar somender979@gmail.com	Support
355	jagdeesh.raghuvanshi@gmail.com	Support
356	attalv1209@gmail.com	Oppose
357	Dheeraj dpkaushik1980@gmail.com	Support
358	kumarigungun836@gmail.com	Support
359	ASHOK KUMAR 9289748609 ashokatal06@gmail.com	Oppose
360	Raman Tiwari ramramanrakesh@gmail.com	Support
361	Santosh s.kyadav011975@gmail.com	Support
362	naveennainwal9@gmail.com	Support
363	Arjun arjkumar1993@gmail.com	Support
364	Raj rajdeshwal.meerut@gmail.com	Support
365	poonamjangra819@gmail.com	Support
366	anjuchhikara1807@gmail.com	Support
367	akanksha.3152.singh@gmail.com	Oppose
368	sumitasingh1988@live.com	Support
369	roshnik5139@gmail.com	Support
370	Ujjwal On behalf of the Residents of Sanoth Village Mail id - ujjwalgoel104@gmail.com Contact -6026891532 sahilnarwal223@gmail.com	Oppose
371	gambhirsingh_negi@hotmail.com	Support
372	automobileconsultant@outlook.com	Support
373	amcare.ashwani1733@gmail.com	Support

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374	memevaalajoke@gmail.com	Support
375	mahuradipanshu@gmail.com	Oppose
376	Ganga sweets gangasweetssec7@gmail.com	Support
377	rameshwarahirwar39@gmail.com	Support
378	parvinderkumar309@gmail.com	Oppose
379	Rahul Kumar On behalf of the Residents of Sanoth Village Mail id - raahul1991singh@gmail.com Contact -9999934469 raahul1991singh@gmail.com	Oppose
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381	mr.sharif1983@gmail.com	Support
382	dayashankarshukla1@gmail.com	Support
383	VIJAY KUMAR M9873564772 vijay.bhardwaaj09@gmail.com	Oppose
384	Ujjwal On behalf of the Residents of Sanoth Village Mail id - its.ujjwalgoel@gmail.com Contact -6026891532	Oppose
385	Madhur Chopra madhur22chopra@gmail.com	Support
386	anjali33khurana@gmail.com	Support
387	its.ujjwalgoel@gmail.com	Oppose
388	Amar nishu7999singh@gmail.com	Oppose
389	gouravchahal026@gmail.com	Oppose
390	jagdeesh.raghuvanshi@gmail.com	Support
391	scsssamiti2016@gmail.com	Oppose
392	scsssamiti2016@gmail.com	Oppose
393	sheetal.saroj246511@gmail.com	Oppose
394	Manish Singh m.psingh99990@gmail.com	Support
395	amar260985@gmail.com	Support
396	Jaiman jaimankujur62@gmail.com	Support
397	Sanjeev kumar san70jeev@yahoo.co.in	Support
398	Nishi sharmanishi033@gmail.com	Support
399	Nishi sharmanishi033@gmail.com	Support
400	Deepak Sachan deepaksachan19@gmail.com	Support
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405	Jagdeesh Raghuvanshi Jagdeesh.Raghuvanshi@jindalecopolis.com	Support
406	kajlarishu@gmail.com	Oppose
407	vipinbansal042@gmail.com	Oppose
408	Sanjeev churia san70jeev@gmail.com	Support
409	Vikram Verma rohilla12cv64@gmail.com	Support
410	rishi1823prasad@gmail.com	Support
411	akasharya465@gmail.com	Support
412	akasharya465@gmail.com	Support
413	akasharya465@gmail.com	Support
414	surendra94mechanical@gmail.com	Support
415	Mohd.Sharif mr.sharif1983@rediffmail.com	Support
416	shivmohangyn@gmail.com	Support
417	Mohd Mahmood Khan mmahmoodkhan846@gmail.com	Support
418	Pawan Pawar On behalf of the Residents of Sanoth Village Mail id - pawan.co.pk@gmail.com Contact -9873003726	Oppose
419	kumatajay755@gmail.com	Support
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421	sumitsharma3737@gmail.com	Support
422	Sachchidanand sinha s.singh1729@gmail.com	Support
423	sashitiwari280@gmail.com	Support
424	Kanwar Singh kan46war@gmail.com	Support
425	rajputnanu35@gmail.com	Support
426	Piyush Lavania piyushlavania0@gmail.com	Support
427	Suraj Kashyap B-....1648 .... Holambi Kalan, Ph-II, Delhi-82 Mobile:..7053224907 kashyapsuraj416@gmail.com	Oppose
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429	toonpuri99@gmail.com	Support

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433	Ashok yadav ashokyadav30058@gmail.com	Support
434	dakshx766@gmail.com	Support
435	Sandeep singh singhsandeep9238@gmail.com	Support
436	pra95099@gmail.com	Support
437	paramjeet.siwach1@gmail.com	Support
438	praveenmauriya89@gmail.com	Support
439	rahulrawat951281@gmail.com>	Support
440	rahulrawat951281@gmail.com	Support
441	raniydv8402@gmail.com	Support
442	aryankashyparyan@gmail.com	Support
443	Mahendra Chauhan m4u.chauhan@gmail.com	Support
444	Ajay Kumar Patel ajaywanted100@hotmail.com	Support
445	Rakesh Kumar rakeshsharma81290@gmail.com	Support
446	Bhanu Rawat bhanu.rawat259@gmail.com	Support
447	sejalsingh0815@gmail.com	Support
448	yogitapaal35@gmail.com	Oppose
449	rdravina3@gmail.com	Support
450	rkmaster44@gmail.com	Support
451	Pankaj kumar Bawana.delhi pankajmadhu8127@gmail.com	Support
452	Amarjeet Aharwal amar.aharwal@gmail.com	Support
453	vedprakash12192@gmail.com	Support
454	Radha C- 455 Holambi Kalan, Ph-II, Delhi-82 Mobile:-9319350329 radha61095@gmail.com	Oppose
455	pg2008series1@gmail.com	Support
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458	Subham pintugiri2008@live.com	Support
459	Saurabh saurabh.nsi18@gmail.com	Support
460	M. K. kaushik1981.manish@gmail.com	Support
461	Charvi charvikaushikb@gmail.com	Support
462	Shivam Gupta E-865 Holambi Kalan, Ph-II, Delhi-82 skg463612@gmail.com	Oppose
463	kashyapsuraj416@gmail.com	Oppose
464	pradeepkumar02335@gmail.com	Support
465	vickybartwal04@gmail.com	Support
466	shivambajpai911996@gmail.com	Support
467	Sujeet Kumar 09560068118 sujeet1729@gmail.com	Support
468	jitu.yadav500@gmail.com	Support
469	Kaushal kaushalkuswaha6@gmail.com	Oppose
470	nishugupta4312@gmail.com	Oppose
471	Ajay gaud ajaygaud1998@gmail.com	Support
472	Manish dixit148@gmail.com	Support
473	manojsharmannl1995@gmail.com Manoj Kumar	Support
474	dineshdeswar@gmail.com	Support
475	Pooja tiwari pt7642424@gmail.com	Support
476	bawanagramrwa@gmail.com	Oppose
477	rajbhar1004@gmail.com	Support
478	imamuddinansari1196@gmail.com	Support
479	avinashsingh02082003@gmail.com	Support
480	adkhan9990@gmail.com	Support
481	ravider303@gmail.com	Support
482	kumarsatendar54270@gmail.com	Support
483	js2015sonam@gmail.com	Support
484	avinashpsit22@gmail.com	Support
485	anujkumarsharma738@gmail.com	Support
486	ia9936@gmail.com	Support
487	sameerranga363@gmail.com	Support

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488	bablibabli1987@gmail.com	Support
489	manidubey1984@gmail.com	Support
490	ak7373720@gmail.com	Support
491	mukeshmishramr@gmail.com	Support
492	adkhan9990@gmail.com	Support
493	samimasamima0024@gmail.com	Support
494	deepukumar1990101@gmail.com	Support
495	pariharavinash0208@gmail.com	Support
496	merebharata@gmail.com	Support
497	mdnurulislam49768@gmail.com	Support
498	sahudk512@gmail.com	Support
499	akasharya465@gmail.com	Support
500	rohit.bkumar765@gmail.com	Support
501	sn432880@gmail.com	Support
502	faiyazmohd1988@gmail.com	Support
503	rk3247175@gmail.com	Oppose
504	pkyadav5720@gmail.com	Support
505	rameshwar.ccil@gmail.com	Support
506	bawanagramrwa@gmail.com	Oppose
507	rohitaastha786@gmail.com	Support
508	dharmendarsharma6676@gmail.com	Support
509	Kuldeep Kumar Jha kuldeepkrjha19@gmail.com	Support
510	ankushgupta150@gmail.com	Support
511	bawanagramrwa@gmail.com	Oppose
512	brajesh1608@gmail.com	Oppose
513	parvindky@gmail.com	Support
514	kuldeepkumarjha01@gmail.com	Support
515	akashnimesh9873@gmail.com	Oppose
516	akashnimesh9873@gmail.com	Oppose
517	ram982144@gmail.com	Support
518	atcinfo9@gmail.com	Support
519	bablu9316@gmail.com	Support
520	spacgrininfo@gmail.com	Support
521	vastravilla09@gmail.com	Support
522	prajapatdeep09@gmail.com	Support
523	sachinvats1610@gmail.com	Support
524	jitu.yadav500@gmail.com	Support
525	manpalsingh15@gmail.com	Support
526	harshnipapabol@gmail.com	Support
527	ashokmnp94@gmail.com	Support
528	manpalsingh15@gmail.com	Support
529	kumarrv93@gmail.com>	Support

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531	ab.pramodkumar@gmail.com	Support
532	rakhikumari80513121@gmail.com	Support
533	dkkukushwah2192@gmail.com	Support
534	mahenderattal1982@gmail.com	Oppose
535	anwesapinky17@gmail.com	Support
536	ak.burnwal@yahoo.com	Support
537	dipaksah9968@gmail.com	Support
538	anishmohanty32@gmail.com	Support
539	nkp0308@gmail.com	Support
540	rahuljain22525.rj@gmail.com>	Support
541	pathak.puja789@gmail.com>	Support
542	soumya.batra@gmail.com	Oppose
543	rahultiwari0120@gmail.com	Support
544	stejpal1985@gmail.com	Support
545	nagendrasingh100889@gmail.com	Support
546	paveeraheja@gmail.com	Support
547	saidabansari29@gmail.com	Support
548	apathak177@gmail.com	Support
549	bhatt1083jk@gmail.com	Support
550	vijay_etc123@rediffmail.com>	Support
551	singh.rana15@gmail.com	Support
552	india.agrade@gmail.com	Oppose
553	ravi2895@gmail.com	Support
554	gaurav.pangtey@gmail.com	Support
555	manjeetshimmar39@gmail.com	Support
556	bhatt1083jk@gmail.com	Support
557	vermasangeeta0412@gmail.com	Oppose
558	aniketkumar00949@gmail.com	Oppose
559	aniketkumar00949@gmail.com	Oppose
560	rp962589@gmail.com	Support
561	sarikasaini453@gmail.com	Oppose
562	luvshalini3@gmail.com	Oppose
563	r2814290@gmail.com	Support
564	chandan22dec2002@gmail.com	Oppose
565	kuldeepkumarjha01@gmail.com	Support
566	p.palavi2017@gmail.com	Support
567	rahulsinghss954@gmail.com	Support
568	panchalashish2261@gmail.com	Oppose
569	kunard212@gmail.com	Support
570	kumarisumani846@gmail.com	Oppose
571	rakesh15sep@gmail.com	Support
572	ravirksingh468@gmail.com	Support

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573	sharmah6664@yahoo.com	Support
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575	pri.kum28@gmail.com>	Support
576	sachinkumar901281@gmail.com	Support
577	v13741357@gmail.com	Support
578	smamtasingh048@gmail.com	Support
579	saini.jatinder1971.js@gmail.com	Support
580	ataljitender@gmail.com	Oppose
581	deveshshakya08@gmail.com	Support
582	pawansinghsr00368@gmail.com	Support
583	vinodkverma1952@gmail.com	Support
584	namita.x12@gmail.com	Support
585	neelesh1310@gmail.com	Support
586	rekhasharmabhardwaj1@gmail.com	Support
587	rajatlibra1@gmail.com	Support
588	rajatlibra2545@gmail.com	Support
589	khatrineeldaman@gmail.com	Oppose
590	ramchanderbhardwaj5@gmail.com	Support
591	saumya866@gmail.com	Support
592	anantgupta2309@gmail.com	Support
593	: "deepak sartan" <deepak.sartan@gmail.com>	Support
594	: "deepak sartan" <deepak.sartan@gmail.com>	Support
595	amankumaraap@gmail.com	Oppose
596	"deepak sartan" <deepak.sartan@gmail.com>	Support
597	ravider303@gmail.com	Support
598	ravider303@gmail.com	Support
599	"aman shri24" <aman.shri24@gmail.com>	Support
600	pg191939@gmail.com	Oppose
601	sahiltiwari9535@gmail.com	Oppose
602	chowdary504@gmail.com	Support
603	: "latif thind" <latif.thind@gmail.com>	Support
604	kunard212@gmail.com	Oppose
605	: yogeshkumar190672@gmail.com	Oppose
606	"vashisht 76" <vashisht.76@gmail.com>	Support
607	: sandeepsingh080783@gmail.com	Support
608	saralkumar9634@gmail.com	Support
609	ashishsaini2912@gmail.com	Oppose
610	alokkumar9823@gmail.com	Oppose
611	varun987111@yahoo.in	Support
612	ds22598@gmail.com	Oppose
613	deepakindian6402@gmail.com	Oppose
614	kunalnarwaladv@gmail.com	Oppose
615	skakbar.ali4@gmail.com	Oppose

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616	kpatel079@googlemail.com	Support
617	kenny.p.patel@gmail.com	Support
618	8375878@gmail.com	Oppose
619	official.himanshu.srivastava@gmail.com	Support
620	gurnoor.bsingh@gmail.com	Support
621	vs2414065@gmail.com	Support
622	gagann2102@gmail.com	Oppose
623	bhavreenkandhari@gmail.com	Oppose
624	sumit1510kumar@gmail.com	Support
625	shailendrapandey445@gmail.com	Support
626	shivkumarengg@gmail.com	Support
627	srao179@yahoo.com	Support
628	: kanhaiyakumar2294@gmail.com	Support
629	sujeet24474@gmail.com	Support
630	prakash2017pandey@gmail.com	Support
631	anurk9368@gmail.com	Support
632	shivambajpai911996@gmail.com	Support
633	tyagirinku984@gmail.com	Support
634	tkdhiman@hotmail.com	Support
635	004singhis@gmail.com	Support
636	: ak8882487@gmail.com	Support
637	jp1252914@gmail.com	Support
638	pushpendrakumar1975@gmail.com	Support
639	: avnishm795@gmail.com	Support
640	mumtaz4422@gmail.com	Support
641	plastolite@gmail.com	Support
642	"suman orissa" <suman.orissa@gmail.com>	Support
643	: rajeshkm1967@gmail.com	Support
644	rajeshkm1967@gmail.com	Support
645	mumtazahmad4037@gmail.com	Support
646	rk2988397@gmail.com	Support
647	: "mdarshad ma459" <mdarshad.ma459@gmail.com>	Support
648	"amit kr8585" <amit.kr8585@gmail.com>	Support
649	sahilsharma124124@gmail.com	Support
650	yadav9939180087@gmail.com	Support
651	gkumar24761@gmail.com	Support
652	sbpandit1978@gmail.com	Oppose
653	sujeet24474@gmail.com	Support
654	sumit1510kumar@gmail.com	Support
655	sksrivastava1988@gmail.com	Support
656	advocatedeepakatwal2016@gmail.com	Oppose
657	vishnurohilla329@gmail.com	Support
658	sujeet24474@gmail.com	Support

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665	VEDPRAKASH ARYA Environmental Engineer MM Aqua TechnologiesLtd. MO-09528866280 vedprakasharyavedprakasharya@gmail.com	Support
666	Vikash rana ranav6637@gmail.com Dwarika sec 8	Support
667	Dwarika sec. 10 ranjitrajput935412@gmail.com	Support
668	JAHIRUL Islam Bawana jahirulislam8326@gmail.com	Support
669	MD fakira Narela delhi mohammadfakira86@gmail.com	Support
670	Munna Sharma Bawana sharmamunnakumar93@gmail.com	Support
671	Rahul Kumar rm6765541@gmail.com	Support
672	sangeetasahu486@gmail.com	Support
673	Surybali Rajbhar rajbharsrya@gmail.com	Support
674	kuhu@jhatkaa.org	Oppose
675	sudeshkumar.skt@gmail.com	Support
676	mustakim123malik@gmail.com	Support
677	reachcycle@gmail.com	Oppose

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678	Ekta Residence Welfare Association	Oppose
679	Jan Garib Kalyan Samiti	Oppose
680	Residents of Sanoth Village	Oppose
681	केशरानी नीलदमन खत्री, पूर्व निगम पर्षादा, वार्ड-1 नरेला	Oppose
682	Neeldaman Khatri Ex. MLA, Narela	Oppose
683	Aruna Kumari, Purv Nigam Parshad, Alipur	Oppose
684	Dr Ramniwas Sehrawat, General Secretary, Delhi Gram Sudhar Mahasabha (360)	Oppose
685	Deepak Kumar Advocate, Sannoth Village	Oppose

Summary of issues raised during the public consultation:

Category	Key Concerns Raised	Responses Provided
Air Pollution	Now a days where pollution is on its peak and where we the residents specially those who are living near to Industrial area are already exhausted due to pollution emerging by Industrial units.	Ambient Air quality monitoring system will be installed in plant for tracking pollution levels that ensures compliance with environmental regulations and ensures protection of public health under EHS program of the proposed project.
Medical & Health	There is already a big Landfill is working here, and AQI is also in dangerous zone.	Development of new landfill sites has also not been allowed by Delhi High Court. All emission parameters from the plant shall be within the prescribed limits. Ambient Air quality monitoring system will be installed in plant for tracking pollution levels, ensuring compliance with environmental regulations, and protecting public health.
Employment	Employment Generation	Noted with thanks and Employment will be provided to local people.
Waste Handling and Management:	The collection, transportation, and processing of waste at such a large scale could create health risks for workers and residents, especially if safety protocols are not strictly followed.	Waste will be received in closed hook loader in the plant. MSW will be stored in an enclosed pit which is maintained under negative pressure, which prevents the escape of any odor. Regular spray inoculum on the waste will be done. Plant will install spray system for odor management The WTE plant will not emit odor. Leachate Management System will be put in place.

Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the concerns of public consultation:

S. No	Physical activity and action Plan		Year of implementation (Budget in INR Lakhs)					Total Rs. In Lakhs
			25-26	26-27	27-28	28-29	29-30	
MEDICAL & HEALTH FACILITIES								
1	Providing Medical Camps	Physical Nos	2	5	5	7	7	
		@Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	5	10	10	15	15	55
SOLAR ENERGY DEVELOPMENT/INFRASTRUCTURE DEVELOPMENT								
1	Repair and maintenance of internal roads	Physical Nos	1	1	1	1	1	
		@ Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	5	10	20	20	20	75
2	Solar Energy Development	Physical Nos						
		@ Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	40	55	75	94	126	390
DRINKING WATER/WATER SHED DEVELOPMENT								
1	Providing of RO plant water	Physical Nos	1	1	1	3	1	
		@ Village	Bawana (JJ Colony)	Sanoth	Holambi Kalan	Ghoga	Holambi Khurd	
		Budget, Rs lakhs	2	2	2	6	2	14
GREENBELT DEVELOPMENT								
1	Greenbelt development in villages	Budget, Rs lakhs	3	5	3	3	3	17
EMPLOYMENT/SKILL DEVELOPMENT								
1	Providing skill development training to ITI & diploma passed local youth	Physical Nos	4 students/year	5 students/ year	5 students/year	5 students/year	5 students/ year	
		@Village	Local Youth from 10 km radius					
		Budget, Rs lakhs	1	2	2	2	2	9

S. No	Physical activity and action Plan		Year of implementation (Budget in INR Lakhs)					Total Rs. In Lakhs
			25-26	26-27	27-28	28-29	29-30	
SANITATION								
1	Renovation of Toilets & Distribution of dust bins	Budget, Rs lakhs	10	15	20	25	30	100
Total Cost, lakhs			**66**	**99**	**132**	**165**	**198**	**660**

25.1.12: Cost of project: The capital cost of the proposed project is Rs 660.0 Crores and the capital cost for environmental protection measures is proposed as Rs 91.605 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs 14.155 Crores. The employment generation from the proposed project is 242 (during operation phase). The details of the cost for environmental protection measures are as follows:

Details of Cost Provision for Environmental Measures

S. No.	Particulars	Equipment/Measures Taken-other	Capital Cost (in Crores)	Recurring Cost per annum (in Crores)
1	Air Pollution Control	Flue Gas Cleaning System, SNCR, Anti-Smog Gun etc.	49.505	11.000
2	Water Pollution Control	WTP & LTP installation & Operating cost.	31.400	2.200
3	Noise Pollution Control	Acoustic enclosures &Personal Protective Equipment.	No extra capital investment is required for NPCS to be purchased with noise compliance	0.500
4	Environment Monitoring and Management	OCEMS/CAAQMS installation & Maintenance,Monitoring of Stack emissions.	3.000	0.170
		Manual Environmental and Stack Monitoring	0.14	---
5	Occupational Health	Provision of OHC for working personnel.	0.200	0.150
6	Green Belt	Pursuant to Battery Limit intensifying the greeneries inside and outside of the project site.	0.170	0.051

S. No.	Particulars	Equipment/Measures Taken-other	Capital Cost (in Crores)	Recurring Cost per annum (in Crores)
7	Wildlife Conservation Plan	Activities under biodiversity and habitat conservation	0.540	---
8	Others (Odour control management + Sanitization)	High Pressure Pump, Nozzle and its accessories for fogging unit/mist system & herbal solution spray.	0.050	0.084
9	Public Hearing Commitment	Medical & Health Facilities, Safe Drinking Water, Solar Energy/ Infrastructure Development, Employment/Skill Development	6.60	-
Total			**91.605**	**14.155**

25.1.13: Employment Details: Total manpower during Construction Phase shall be 630 (60 - direct & 570 – Indirect/contractual) and during Operational Phase shall be 242 (86 - direct & 156 – Indirect/contractual).

25.1.14: Green belt development: Proposed greenbelt will be developed in 6.0 acres (2.43 ha) which is about 40 % of the total project area. Thus total of 6.0 acres (2.43 ha) area (40 % of total project area) will be developed as greenbelt. Local and native species will be planted with a density of 2000 trees per hectare. Total no. of 4860 saplings will be planted and nurtured in 6.0 acres (2.43 ha) in 3-5 years. The action plan for green belt development is furnished as below:

- **Greenbelt Area**: 6 Acres (~40% of the total project area)
- **Number of trees**: 4,860 trees to be planted @ 2000 trees/ha
- **Native species** will be selected from the plantation:
    - *Ailanthus excelsa, Alstonia scholaris, Azadirachta indica, Bombax ceiba, Butea monosperma, Calistemon viminalis, Cassia fistula, Dalbergia sissoo, Ficus bengalensis, Ficus religiose, Melia azedarach etc.*
- **Greenbelt layout**: 3-tier plantation around boundaries, roads & open areas
- **Tree spacing**: 2.5m x 2.5m grid for optimal canopy and coverage
- **Width**: Minimum of about 3 to 5 m along the periphery and internal roads

Year	Number of Saplings	Capital cost (INR)	Recurring cost (INR)
2024-2025	1000	350000	10500

Year	Number of Saplings	Capital cost (INR)	Recurring cost (INR)
2025-2026	1500	525000	15750
2026-2027	2360	826000	24780
Total	**4,860**	**17,01,000**	**51,030**

25.1.15: **Ash Management System:** The present project falls under Waste to Energy category and accordingly bottom ash, and fly ash utilization plan has been developed as per the current technically viable ash utilization programs

Details	Annual generation (Metric Tons Per Annum – MTPA)	Utilization	% of utilization	Balance quantity (MTPA)	No of storage silos with capacity
Bottom Ash & Inert	1,48,920	Use for road construction and any unutilized material will be sent to ESLF	-	Unutilized material will be sent to ESLF	-
Fly Ash	26,280	Supplied to cement industries/ash brick manufacturers	-	Unutilized material will be sent to ESLF	2 nos. of silos

25.1.16: Summary of court cases: There are no litigations pending against the proposed project.

25.1.17: Written submissions

The proponent submitted the following with respect to the temperature profiling in the boiler:
The boiler is equipped with multistage hydraulic reciprocating grate furnace. It is the state of art forward &/or reverse acting grate technology for typical Indian waste. It is a complete system that efficiently converts municipal solid waste into energy through controlled combustion.The boiler is composed of several auxiliary systems such as feeding equipment, feeding grate, incineration grate, hydraulic system, oil burner system, automatic control system, combustion air system, ash and slag discharging system, etc. It has a unique grate design and optimized air distribution system, to ensure the highest combustion efficiency and eliminate partial combustion, with advanced automatic combustion control system. The waste combustion zone is divided into following sections according to the combustion properties, where the waste is dried, burned, burned out and finally cooled:

1) the drying section,
2) the combustion section and
3) the slag cooling section;

The primary air enters the primary combustion zone of furnace through the chamber arranged under the grate. 1st section specializes in drying the waste to optimum combustion temperature. 2nd section ensures complete combustion above 950 °C temperature. Secondary air enters the secondary combustion zone of furnace through nozzles to enhance the turbulence, along with

refractory in the first pass to ensure more than 2 seconds residence time. The continuing design of boiler includes top support, vertical, four pass, balance draft, single drum and natural circulation, water tube design. Further, the temperature profile of both the combustion zones and boiler passes is as follows:

Particular	1st Pass Furnace		2nd Pass Outlet	3rd Pass Outlet	4th Pass Outlet
	Primary Combustion Zone	Secondary Combustion Zone			
Flue Gas Temperature	1068 °C	1025 °C	661 °C	350 °C	190 °C

The Boiler is designed to maintain the temperature above 950 °C in the secondary combustion zone and ensure a gas residence time of more than 2 seconds in the secondary combustion zone.

Observations and deliberation of the EAC

25.1.18: The Committee observed and noted the following:

i. Instant proposal is for setting up of Waste to Energy Thermal Power Project of capacity 30 MW by M/s Jindal Urban Waste Management (Bawana) Limited located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi

ii. The EAC took into consideration the KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.

iii. ToR for the proposed greenfield project was accorded on 10/01/2024. The site for the proposed project was selected after analysing three alternate sites. The Bawana site was found most suitable due to availability of adequate authorized land with the MCD in DSIIDC, Industrial Area, Nearness to water source from PPCL and no fresh water will be drawn up for industrial use except drinking water and no existence of Ecologically sensitive areas.

iv. Total land required for the proposed project is 6.07 Ha (15.0 Acres), falling within the DSIIDC industrial area, Bawana, Delhi and doesn't involve R&R issues. The land has been provided by Municipal Corporation of Delhi (MCD) to M/s. Jindal Urban Waste Management (Bawana) Limited vide concession agreement dated 27/02/2025.

v. The committee observed that a natural nallah is passing through the project site. Western Yamuna Canal is located at approx. 32 meters from the project site in South-West direction. No nallah diversion involved but the Nalla embankment shall be strengthen and green belt will be developed all along the periphery of the nallah for its conservation. The committee suggested that nallah should be kept intact and no leachate or waste water/solid waste shall be discharged/deposited in to the Nallah.

vi. There is no involvement of forest land. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site as ascertained from DSS.

vii. The project site is not located within the Critically Polluted Area (CPA) / Severally Polluted Area (SPA) as per CEPI assessment 2018 of CPCB.

viii. The technology to be employed for this WTE project is RDF combustion based reciprocating forward feed grate technology. The power generation capacity will be 30 MW. The quantity of MSW requirement for the project will be 3000 TPD.

ix. The water requirement for the proposed project during operation phase is estimated as 625 m^3 /day and approx. 7 m^3/day of fresh water will be required for domestic purposes which will be met by the Delhi Jal Board (DJB). Requirement of water for industrial usage will be met from the blowdown reject water from the Pragati Power Corporation Limited (PPCL) or treated sewage from STP, DJB. No ground water shall be used for the proposed project. Zero Liquid Discharge will be for the proposed project.

x. The requirement of the construction power supply for the project would be met from the Tata Power Delhi Distribution Limited (TPDDL).

xi. The Committee deliberated on the baseline data and incremental GLC due to the proposed project. The committee noted that the proponent is providing hydrated lime injection for SO_2 control, bag filter, Low NO_X combustion system and provision for Selective Non-Catalytic Reduction (SNCR) for NOx control and stack with a height of 60 meters will be provided to control & regulate the air emission from the proposed project.

xii. For odour control, the committee noted that negative Pressure Ventilation in the MSW collection pit, ventilation air from MSW pit will be fired in the boiler and provision of fogging unit/mist system & herbal solution spray.

xiii. The committee noted that with respect to water pollution control, proponent will be using Air cooling system, wastewater from raw water treatment facilities and the boiler section will be used for flue gas conditioning and dust suppression operations and leachate will be collected, treated, and reused in the main plant. Zero liquid discharge will be adopted.

xiv. The rejects/generated bottom ash will be processed in the bottom ash processing plant. After the processing materials which are not recyclable for further processing will be sent to Sanitary Landfill. Fly ash will supplied to cement industries/ash brick manufacturers and unutilized material will be sent to secured land fill.

xv. There are 3 Schedule I Species found in the study area and a Wildlife Conservation & Management Plan (WLCP) has been prepared and submitted to DFO for their approval. Rs 54 Lakhs has been allocated for the Conservation Plan.

xvi. The findings of epidemiological study report have been deliberated and the Committee noted that JUIL has allocated Rs. 55 Lakhs towards various community healthcare support initiatives.

xvii. Proposed greenbelt will be developed in 6.0 acres (2.43 ha) which is about 40 % of the total project area in a time frame of three to five years.

xviii. Public hearing for the project was held on 27.12.2024**.** The Committee looked into the videography of the public hearing proceedings, deliberated on the public hearing issues and written representations received along with the action plan submitted by the proponent to address the issues raised during the public hearing. The committee advised the PP to implement the PH action plan in a time bound manner.

xix. The capital cost of the proposed project is Rs 660.0 Crores and the capital cost for environmental protection measures is proposed as Rs 91.605 Crores. The annual recurring

cost towards the environmental protection measures is proposed as Rs 14.155 Crores. The employment generation from the proposed project is 242 (during operation phase).

xx. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.

xxi. The Committee also deliberated on the comments received from Commission on Air Quality Management wherein it has been emphasized upon that proposed project shall undertake strict control measures to control the air pollution arising due to other activities linked to WTE plant construction and operation (e.g., C&D, transportation, road dust, etc) and all the Directions, Advisories and Orders issued by the Commission in this regard from time to time shall be followed strictly. The committee asked the proponent to ensure compliance with the same.

xxii. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

xxiii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

Recommendations of the Committee:

25.1.19: In view of the foregoing and after detailed deliberations, the committee ***recommended*** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 **subject to submission of the written information on Parivesh portal** and stipulation of the following specific conditions and general conditions based on project specific requirements:

A. Specific conditions

[A] Environmental Management

1) The incoming organic waste of 600 TPD shall be processed at bio-methanation facility and mixed waste of 2400 TPD shall be processed at proposed waste to energy plant as committed. All the waste received shall be kept under a covered storage facility equipped with impermeable base and provision for collection of leachate leading to a leachate treatment and disposal facility.

2) Project proponent shall take necessary precaution to minimize nuisance of odour, flies, rodents, bird menace and fire hazard in the waste storage pit, around & over windrows and in processing area.

3) Proponent shall ensure that pre-process and post-process rejects shall be removed from the compost processing facility on regular basis and shall not be allowed to pile at the site. Recyclables shall be sent to authorized recyclers. The non-recyclables having high calorific fraction (≥1500 kcal/kg) shall be segregated and sent to waste to energy.

4) Project Proponent shall ensure that waste to be incinerated shall not be chemically treated with any chlorinated disinfectants and incineration of chlorinated plastics shall not occur. All the facilities in twin chamber incinerators shall be maintained to achieve a minimum temperature of 950℃ in secondary combustion chamber and with a gas residence time in secondary combustion chamber not less than 2 seconds. Incinerators shall be operated with such temperature, retention time and turbulence, as to achieve Total Organic Carbon (TOC) content in the slag and bottom ash less than 3%, or the loss on ignition is less than 5% of the dry weight. The CO_2 concentration in tail gas shall not be more than 7%.

5) Project proponent shall ensure that maximum utilization of ash generated in accordance with the ash utilization notification dated 31/12/2021 and its subsequent amendment. No ash pond is permitted within the project site. Any unutilized ash and inerts from processing of municipal solid waste in the proposed Waste to Energy Plant shall be sent to Engineered Sanitary Landfill (ESLF) for its safe disposal. In case the concentration of toxic metals in incineration ash exceeds the limits specified in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended from time to time, the Project Proponent shall send the ash to the Treatment, Storage and Disposal Facility for Hazardous Waste at Bawana in Delhi.

6) Project proponent shall install one continuous ambient air quality monitoring at suitable locations within the project site in consultation with DPCC as committed. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

7) Online Continuous Stack Emission Monitoring System (OCEMS) shall be done through 24X7 online monitoring system. The emission Standards for Municipal Solid Waste based Thermal Power Plants as per Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)) shall be complied (Refer Part C of Schedule II of Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)). OCEMS shall be calibrated properly to ensure that data matches with the actual monitoring results.

8) The total water requirement for the proposed project is estimated as 989 m^3/day, out of which 625 m^3/day shall be met from blowdown reject water of Pragati Power Corporation Limited (PPCL) or treated wastewater from Sewage Treatment Plant (STP) of Delhi Jal Board (DJB) for industrial purposes and 7 m^3/day fresh water shall be met from drinking water supply of DJB for domestic purposes. Air-Cooled Condenser shall be used to reduce fresh water requirement and no ground water abstraction shall be allowed.

9) Natural nallah passing through the project site should be kept intact and no leachate or waste water/solid waste shall be discharged/deposited in to the Nallah. It's embankment shall be strengthened and Green belt shall be developed all along the periphery of the nallah. Western Yamuna Canal located at 32 meters from the project site in South-West direction shall be protected.

10) Project proponent shall harvest rainwater in a storage tank within the plant premises and utilize the same for plantation, recharging water in the pond and domestic utilization as committed. PP shall provide separate garland drains to prevent mixing of leachate with stormwater. A record shall be maintained of water collected through rainwater and its supply system. PP shall get the water audit done every year to optimize the water

requirement.

11) Project proponent shall implement the protective measure proposed in EMP in a time-bound manner. The budget earmarked for the same is Rs. 91.605 Crores (Capital) and Rs. 14.155 crores (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.

12) Project proponent shall take prior permission from the Competent Authority to divert high tension line passing through the project site.

13) Effluent of 360 KLD shall be treated through Leachate Treatment Plant. As committed by the Project proponent, Zero liquid discharge shall be adopted for the proposed plant. No wastewater will be discharged outside the project site. A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated leachate shall be monitored once in quarter and records shall be maintained.

14) Project proponent shall implement the concurrent plantation plan in a time bound manner. Total area of 2.43Ha. (40% of total plant area of 6.07 Ha.) shall be developed as greenbelt in a time frame of 3-5 years. Three tier green belt all along the periphery of the project site shall be developed as greenbelt and green cover as per CPCB guidelines. The budget earmarked for the greenbelt shall be kept in a separate account and audited annually. PP should annually submit the audited statement of expenditure along with proof of activities viz. photographs (before & after with geolocation date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC and on PARIVESH Portal as the case may be for the activities carried out during previous year.

15) Project proponent shall carry out community plantation with incentive scheme by distributing 50,00 saplings per year for a period of five years. Further, PP shall provide basic facilities to the nearby schools such as drinking water, sanitation facilities and shall also develop greenbelt around the nearby schools. Further, PP shall organize quarterly awareness programs for school students to educate them on the significance and preservation of trees.

16) Wildlife conservation plan as approved by the competent authority shall be implemented. Additional, budget shall be added in the plan, in case additional measures suggested by state wildlife department. The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of EC and the budget approved by the concerned authority shall be deposited in government account.

17) Project proponent shall install LED display of air quality (Continuous AAQ monitoring) and stack emission (Continuous emission monitoring) at prominent locations preferably outside the plant's main entrance for public viewing and in administrative complex and maintenance of devices shall be done regularly.

18) Project proponent shall install adequate number of anti-smog guns at the periphery of the project boundary facing inwardly at a suitable height and explore the possibility for vertical gardens in order to bring down the particulate matter concentration in the area along with carry out Water Sprinkling on roads inside the plant area/ administrative areas on a regular basis to control the air pollution. A logbook shall be maintained for the activity and be in six-monthly compliance report.

19) Project proponent shall deploy mechanical road sweepers for everyday cleaning of the roads in and around plant site.

20) Environment Audit of plant shall be done annually and report shall be submitted to Regional office of the Ministry.

21) Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.

22) Monitoring of surface water quality and Ground Water quality shall also be regularly conducted in and around the project site and records to be maintained. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report. The monitored data shall be submitted regularly on PARIVESH portal as part of Half Yearly compliance report

23) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the latest CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

24) Project proponent shall ensure that plastic waste generated from the plant except chlorinated plastics shall be used as RDF for the in-house incinerators. The chlorinated plastics waste generated from the plant shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016 (as amended). In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report submitted by Project proponent.

25) PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Greenbelt development. The action in this regard shall be submitted concerned RO in six monthly report.

26) All the Directions, Advisories and Orders of Commission for Air Quality Management in National Capital Region and Adjoining Areas from time to time shall be complied upon by the project proponent.

[B] Socio-economic

1) All the recommendations of the epidemiological study report by IIHMR Delhi shall be complied upon by the project proponent in a time bound manner and compliance status in

this regard shall submitted along with the six monthly compliance report. In addition to this, proponent shall carry out a Root Cause Analysis (RCA) study to assess the prevalence of water borne diseases in the areas adjacent to the proposed project. The study report along with the recommendations shall be submitted to the Regional Office of the Ministry along with the six monthly compliance report.

2) The budget proposed for PH is Rs. 6.60 Crores. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. In addition to this, PP shall provide medical camps in the study area for better public health, strengthen existing roads, provide RO for drinking water, develop skills of local people, etc. as committed. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.

3) The establishment of a robust public grievance redressal mechanism to address concerns and complaints from local communities regarding the power plant's operations, environmental impacts, or social issues shall be developed. A Senior Officer shall review the functioning of the mechanism twice in a month.

[C] Miscellaneous

1) An Environmental Cell headed by the Environment Manger with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.

2) Consent under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 and Authorization under Solid Waste Management Rules, 2016 and Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016for the proposed project shall be obtained from the Delhi Pollution Control Committee.

3) All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.

B. General conditions

A. Statutory compliance:

1. Part A, B & C of Schedule II of Solid Waste Management Rules, 2016 which came into force vide S.O. 1357 (E) on 08.04.2016 as amended from time to time shall be complied for standards for composting, treated leachate (generated from waste) and incineration of Municipal Solid Waste.

2. Environmental Guidelines for Compressed Biogas Plant (CBG)/Bio-CNG Plants, 2022 of CPCB shall be followed for biomethanation plant based on municipal solid waste.
3. MoEF&CC Notifications on Ash Utilization S.O. 5481 (E) dated 31/12/2021 as amended from time to time shall be complied.

B. Mode of transportation of municipal solid waste, ash and inerts:

1. Waste shall be transported in covered vehicles and the wheel-washing facility shall be provided at the entry and exit of the plant.
2. PP shall transport fly ash / bottom ash / inerts in properly covered vehicles and ensure that no fugitive emission occurs in the air during loading, unloading and transportation.

C. Air quality monitoring and Management:

1. Project proponent shall manage the foul odour emerging as a result of waste processing as per CPCB guidelines issued from time to time.
2. Negative Pressure shall be maintained in the Waste Storage Pit from the waste pit. Pressure monitoring system showing the atmospheric pressure and pressure inside the waste pit shall be installed and the data shall be transferred to CPCB and DPCC through server.
3. Selective Non-Catalytic Reduction (SNCR) system or Low NOx combustion system shall be installed to achieve NOx emission standard as prescribed in Solid Waste Management Rules, 2016 or by DPCC whichever is stringent.
4. Hydrated lime and activated carbon injection system shall be installed for controlling SO_2 and HCl emissions in flue gas. Bag Filter House made of PTFE (Polytetrafluoroethylene) with 130% design efficiency for controlling Particulate matter emissions shall be installed to ensure that particulate matter (PM) emission meet the stipulated standards of 30 mg/Nm^3.
5. One common stack with a height of 60 meters shall be provided with continuous online monitoring instruments for SO_2, NOx and Particulate Matter as per extant rules.
6. Exit velocity of flue gases shall not be less than 20-25 m/s. Project proponent shall ensure that all the parameters including TOCs in stack emissions to meet the standards as prescribed in Solid Waste Management Rules, 2016 or by DPCC whichever are stringent.
7. Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM_{10}, $PM_{2.5}$, SO_2, NO_X within the plant area at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
8. Adequate dust extraction/suppression system shall be installed in waste handling, ash handling areas and material transfer points to control fugitive emissions.
9. Appropriate Air Pollution Control measures shall be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.

D. Noise pollution and its control measures:

1. The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.
2. Persons exposed to high noise generating equipment shall be provided with Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.
3. Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non-noisy/less noisy areas.

E. Human Health Environment:

1. Personnels handling municipal solid waste or being present on the tipping floor shall be provided with PPE like shoe covers, gloves, masks, etc.
2. A separate canteen far from the waste management area shall be provided for employees. All the basic sanitation facilities shall also be provided to all the employees.
3. Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account chronic exposure of locals to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.
4. The PP should have one Community Health Center in the campus,where the citizens from nearby area can have access to it and get treatment.

F. Water quality monitoring and Management:

1. Proponent shall achieve specific water consumption of the WTE below 3.0 m^3/MWhr.
2. Regular (at least once in six months) monitoring of groundwater quality in and around the proposed waste to energy plant including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.
3. The treated effluents emanating from the different processes such as RO & DM plant, boiler blow down, sewage, etc. conforming to the prescribed standards shall be recycled and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.
4. Wastewater generation of 274 KLD (191 KLD from RO & DM Plant + 57 KLD Cooling Tower water blowdown + 26 KLD from boiler blowdown) shall be sent to CMB and 108 KLD shall be recycled to raw water tank.
5. Leachate of 357 KLD and sewage of 3 KLD making the quantum as 360 KLD shall be treated collectively in Leachate Treatment Plant to meet the standards as laid down in Solid Waste Management Rules, 2016. Treated leachate shall be recycled and utilized in the process and for quenching ash within the premises of the proposed WTE plant.

6. Project proponent shall use the sludge obtained from the Leachate Treatment Plant as fuel into incinerator after dewatering by screw press technique.

G. Risk Mitigation and Disaster Management:

1. PP shall install radioactive sensors at the entry point of the Waste to Energy plant to detect any radioactive material in the receiving municipal solid waste.
2. Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.
3. Only RDF shall be fed into incinerator for generation of energy and no other kinds of fuel shall be used.
4. Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
5. Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.
6. Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.

H. Greenbelt and Biodiversity conservation:

1. Greenbelt of at least 5-50 metres thickness and densified @ 2500 trees per hectare, shall be developed in an area of 40% of the total plant area with indigenous plant species in accordance with CPCB guidelines. The greenbelt shall inter-alia cover an entire periphery of the plant.
2. In-situ/ex-situ Conservation Plan for the flora and fauna in the vicinity of the proposed site should be prepared and implemented.

I. Waste management:

1. Municipal solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.
2. Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for compost, ash produced or any other substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.
3. Ash shall be utilized as per provisions of the Notification issued by the Ministry's gazette notification vide S.O. 5481 dated 31.12.2021, S.O.6169 (E) dated 30.12.2021, S.O.05 (E) dated 01.01.2024 and amendment thereto.
4. Rejects/unutilized ash shall be disposed of in the Engineered Sanitary Landfill (ESLF). In case the concentration of toxic metals in incineration ash exceeds the limits specified in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended from time to time, the PP shall send the ash to the Treatment, Storage and Disposal Facility for Hazardous Waste at Bawana in Delhi.

J. Monitoring of compliance:

1. Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government shall be met

either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.

2. The project proponent shall (Post-EC Monitoring):

   a. Send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;

   b. Upload the clearance letter on the web site of the company as a part of information to the general public.

   c. Inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at http://parviesh.nic.in.

   d. Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;

   e. Monitor the criteria pollutants level namely; PM (PM_{10} & $PM_{2.5}$ in case of ambient AAQ), SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;

   f. Submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;

   g. Submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;

   h. Inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.

K. Corporate Environmental Responsibility (CER) activities:

1. Activities under Extended EMP will be carried out as per Ministry's OM F.No.22-65/2017- IA.III dated 30th September, 2020 and 22-65/2017- IA.III dated 25.02.2021 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed scheduled of implementation with appropriate budgeting. Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the Extended EMP in compliance of the shall be submitted.

Agenda No 25.2

25.2 Neyveli New Thermal Power Station (2x500 MW), Lignite Based TPP by M/s. NLC India Limited at Neyveli in Kurinjipadi Tehsil, in Cuddalore District, Tamil Nadu **– Amendment in Environment Clearance – regarding.**

[Proposal No. IA/TN/THE/466123/2024; F. No. J-13012/250/2007-IA.II (T)];

25.2.1: M/s. NLC India Limited has made an online application vide proposal no. IA/TN/THE/466123/2024 dated 15/03/2024 along with Form-4 and sought for amendment in the EC dated 21/10/2010 regarding deletion of EC conditions related to CSR and permission to send the treated wastewater from NNTPS to the agricultural fields in the nearby area of the project site.

The above proposal was earlier considered by the EAC in its meeting held on 27-28th June, 2024 and deferred for want of additional information. Proponent uploaded the additional information on 13/05/2025.

Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:

25.2.2: The Environment Clearance (EC) for Neyveli New Thermal Power Station (2x500 MW), Lignite Based TPP by M/s. NLC India Limited at Neyveli in Kurinjipadi Tehsil, in Cuddalore District, Tamil Nadu was accorded by MoEF&CC vide letter dated 21.10.2010. Subsequently, extension validity of EC was accorded on 09.03.2016. The project has been implemented and the unit is under operation.

25.2.3: The details of the condition for which amendment is sought and justification for the same are as follows:

Specific/General Condition No.	Details of condition as per EC	Amendment Sought	Justification
General Conditions Sr.no (i)	**The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon.** Arrangements shall be made that effluents and storm water do not do not get mixed.	The treated effluents conforming to the prescribed standards may be discharged outside the plant premises for irrigation purpose.	Project affected persons through district administration for providing the treated effluent water from NNTPS to their Agricultural lands (irrigation) for their livelihood. Further, as per the study carried out by M/s. TNAU, treated effluent is complying with the irrigation standards

Specific/General Condition No.	Details of condition as per EC	Amendment Sought	Justification
			and suitable for irrigation.
Specific Condition (Xxiv)	An amount of Rs 22.40 Crores shall be earmarked as one time capital cost for CSR programme. **Subsequently a recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities.** Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Condition of "recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities" may be deleted	NLCIL had spent one time capital cost of Rs. 22.4 Crores towards CSR activities. NLCIL spends 2% of the average net profits made during the preceding three financial years as per the Companies Act, 2013. Hence, the condition of "**recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities"** may be deleted.

25.2.4: The above EC amendment proposal was considered by the EAC in its meeting held on 27-28th June, 2024 and deferred for want of following additional information.

i. PP shall carry out detailed analysis of water including inorganic, organic and heavy metals of treated effluent water. Also, a pilot-based study of effect of treated effluent water on native agricultural crops shall be carried out. Further, the crops may also be tested for human consumption and presence of heavy metals.

ii. Additional studies need to be done for assessing the possibility of contamination of ground water particularly with respect to heavy metals since HCL is being used in the plant and the affluent is mildly acidic.

iii. The PP needs to carry out further studies from any reputed government institute to ascertain the impact of this water (effluent discharge outside the plant) on the food chain and underground water.

iv. PP needs to inform that on what activities corresponding to capital investment of Rs 22.40 cr have been spent from the CSR budget to mitigate the effects of this particular project rather than by NCL as whole.

v. PP needs to inform the source of recurring cost (Rs 4.50 cr) for future expenditure towards maintenance of activities done against the capital investment.

vi. PP needs to provide the issues raised during PH and commitment made by PP including budget provision. The activities which are already completed and amount spent on the same. The activities which are yet to be completed and amount to be spent.

vii. PP shall carry out the plantation and submit the status of compliance of EC condition related to the same.

viii. PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. An action plan in this regard shall be submitted.

25.2.5: The project proponent submitted the following reply to the additional information:

S. No	ADS Point	Reply/Response of PP
1	PP shall carry out detailed analysis of water including inorganic, organic and heavy metals of treated effluent water. Also, a pilot-based study of effect of treated effluent water on native agricultural crops shall be carried out. Further, the crops may also be tested for human consumption and presence of heavy metals.	Treated thermal power plant effluent samples were collected from NNTPS, NLCIL, Neyveli, Cuddalore and analysed for its physio chemical characteristics by M/s Tamil Nadu Agricultural University (TNAU). Heavy metals such as chromium, nickel, cadmium, arsenic and mercury were all below detectable levels. A pilot study was also carried out by TNAU and the crop samples were analysed for heavy metal content. The findings suggest that crops from these locations meet Indian regulatory standards, with an adequate supply of macronutrients and micronutrients.

Treated effluent characteristics

Parameters	Sample 1	Sample 2	Discharge Standards (CPCB)
pH	8.24	8.07	5.5- 9.0
EC (dS m^{-1})	1.82	1.84	-
Total Dissolved Solids (mg/l)	1085	1201	2100
Total Suspended Solids (mg/l)	60	55	100
Sulphate (mg/l)	167.40	174.50	-
Chloride (mg/l)	170.40	184.60	-
Calcium (mg/l)	58.50	59.70	-

<table>
<tr><th>S. No</th><th colspan="2">ADS Point</th><th colspan="2">Reply/Response of PP</th></tr>
<tr><td colspan="2">Magnesium (mg/l)</td><td>10.15</td><td>10.80</td><td>-</td></tr>
<tr><td colspan="2">Sodium (mg/l)</td><td>117</td><td>118</td><td>-</td></tr>
<tr><td colspan="2">Pottasium (mg/l)</td><td>3</td><td>2.90</td><td>-</td></tr>
<tr><td colspan="2">Ammoniacal N (mg/l)</td><td>1.12</td><td>1.12</td><td>50</td></tr>
<tr><td colspan="2">Phenol (mg/l)</td><td>*BDL</td><td>*BDL</td><td>1.0</td></tr>
<tr><td colspan="2">Phosphate (mg/l)</td><td>0.07</td><td>0.11</td><td>5.0</td></tr>
<tr><td colspan="2">Total Lead (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0. 0.11</td></tr>
<tr><td colspan="2">Total Chromium (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0.1</td></tr>
<tr><td colspan="2">Total Nickel (mg/l)</td><td>*BDL</td><td>*BDL</td><td>3.0</td></tr>
<tr><td colspan="2">Total Cadmium (mg/l)</td><td>*BDL</td><td>*BDL</td><td>2.0</td></tr>
<tr><td colspan="2">Total Arsenic (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0.2</td></tr>
<tr><td colspan="2">Total Mercury (mg/l)</td><td>*BDL</td><td>*BDL</td><td>0.01</td></tr>
<tr><td colspan="2">Total Iron (mg/l)</td><td>*BDL</td><td>*BDL</td><td>3.0</td></tr>
<tr><td colspan="2">Total Copper (mg/l)</td><td>0.03</td><td>0.03</td><td>3.0</td></tr>
<tr><td colspan="2">Total Fluoride (mg/l)</td><td>0.005</td><td>0.004</td><td>3.0</td></tr>
<tr><td>2</td><td colspan="2">Additional studies need to be done for assessing the possibility of contamination of ground water particularly with respect to heavy metals since HCL is being used in the plant and the affluent is mildly acidic</td><td colspan="2">Groundwater samples were collected by TNAU from six different locations and analyzed as per Central Pollution Control Board (CPCB) standards (IS 10500:2012) to assess its suitability for drinking purposes.

All heavy metals, including lead, arsenic, cadmium, mercury, and nickel were below detection limits (BDL) in all samples, ensuring no significant contamination</td></tr>
<tr><td>3</td><td colspan="2">The PP needs to carry out further studies from any reputed government institute to ascertain the impact of this water (effluent discharge outside the plant) on the food chain and underground water.</td><td colspan="2">Various crops such as Paddy, sugarcane, ground nut, pulses, sugarcane, banana etc were tested for heavy metals and found that these crops meet Indian regulatory standards.

Regular monitoring and strategic nutrient management can enhance crop productivity and food safety while ensuring continued compliance with Indian agricultural standards.</td></tr>
<tr><td>4</td><td colspan="2">PP needs to inform that on what activities corresponding to capital investment of Rs 22.40 cr have been spent from the CSR budget to mitigate the effects of this particular project rather than by NCL as whole.</td><td colspan="2"><table><tr><th>Nature of Expenditure</th><th>Amount in Rs.</th></tr><tr><td>CSR-Irrigation Works</td><td>69,57,000</td></tr></table></td></tr>
</table>

<table>
<tr><th>S. No</th><th>ADS Point</th><th>Reply/Response of PP</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>CSR-Roads</td><td>64,03,926</td></tr>
<tr><td>CSR-Ananda Illam</td><td>10,00,00,000</td></tr>
<tr><td>CSR-Works done by CTO</td><td>10,35,60,817</td></tr>
<tr><td>CSR-Compound Wall</td><td>36,51,699</td></tr>
<tr><td>CSR-Worksin Aurobindo School</td><td>33,81,002</td></tr>
<tr><td>CSR-Drinking Water pipeline to Kollai Village</td><td>1,94,775</td></tr>
<tr><td>Total CSR Expenditure</td><td>22,41,49,219</td></tr>
</table>
</td></tr>
<tr><td>5</td><td>PP needs to inform the source of recurring cost (Rs 4.50 cr) for future expenditure towards maintenance of activities done against the capital investment.</td><td>NNTPS is a unit under NLCIL, and the profit details of NNTPS for the last three years is:
<table>
<tr><td>Year</td><td>Amount (Rs. In Crores)</td></tr>
<tr><td>2021-22</td><td>121.79</td></tr>
<tr><td>2022-23</td><td>213.52</td></tr>
<tr><td>2023-24</td><td>213.66</td></tr>
</table>
The source of the recurring cost is from 2% of the average net profits of the last three financial years.</td></tr>
<tr><td>6</td><td>PP needs to provide the issues raised during PH and commitment made by PP including budget provision. The activities which are already completed and amount spent on the same. The activities which are yet to be completed and amount to be spent.</td><td>Public hearing was held on 10.12.2009 and people highlighted the following points:
Employment
Infrastructure
Health and Sanitation
Desiltation of ponds
Drinking water
NLCIL had spent Rs. 22.4 crores towards CSR activities including the above.</td></tr>
<tr><td>7</td><td>PP shall carry out the plantation and submit the status of compliance of EC condition related to the same.</td><td rowspan="2">Letter of award was issued for plantation of 30,000 saplings and upon completion of FGD project, further greenbelt will be developed in the designated areas.

A plantation drive is being conducted annually wherein Saplings are distributed in the nearby villages and to contract workmen for enhancing green cover.</td></tr>
<tr><td>8</td><td>PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country.</td></tr>
</table>

S. No	ADS Point	Reply/Response of PP
	This plantation drive is other than Green belt development. An action plan in this regard shall be submitted.	

25.2.6: In addition to the above, proponent there is a case before the NGT bearing O.A 107 of 2023 against NLCIL. The case details is furnished as below:

Basis of the NGT Case against NLCIL:	Surface Water, Ground Water, Fly ash & Soil samples collected in Feb'2023 & April'2023 by Poovulagin Nanbargal (NGO) without any information to Tamil Nadu Pollution Control Board (TNPCB) & NLCIL and released a report named "Powering Pollution" and articles flashed in News Papers dated 09.08.2023.
NGT Suo Motu Case:	NGT Southern Bench has taken Suo Motu case on 10.08.2023 based on the news press reports published on 09.08.2023. NGT SUO MOTU Case No. - OA 107/2023
TNPCB Actions:	✓ Formed Committee & joint samples collected during 11th, 16th & 30th Aug'23 with reference to the sampling locations of NGO. ✓ Samples were tested in CUBE, IIT Madras and NGO tested Laboratories (Chennai Mettex & Tamilnadu Test House Labs) and found that the all the parameters & heavy metals such as Mercury, Selenium etc. are well below the permissible limits. ✓ NLCIL Lignite & Fly Ash Samples test results showed presence of heavy metals Below Detectable limits as per CUBE, IIT Madras. ✓ TNPCB released a press release on 17.10.2023, mentioning "No evidence of water pollution in Neyveli"
CPCB Actions:	✓ CPCB Collected joint samples in Sept'2023 with reference to the sampling locations of NGO published "Powering Pollution" report. ✓ Samples were tested in M/s Mats India Pvt Ltd (NABL Accredited) and found that the all the parameters & heavy metals such as Mercury, Selenium etc. are well below the permissible limits.
NGT Latest Hearing on 16.04.2025:	✓ NGT has asked NGO that ideally the NGO should have adopted scientific sampling methods and submitted same samples to TNPCB and NLCIL for the samples during Feb'2023 & April'2023. ✓ NGT has also asked NGO that surface water testing results should not have compared with Drinking Water Standards (IS 10500:2012).
Final Submission: ✓ All the samples analyzed by IIT, Madaras CUBE, the mercury levels indicated well below the permissible limits. ✓ CPCB, Tamilnadu Water Supply and Drainage (TWAD) Board, Chennai Metropolitan Water Supply and Sewage Board (CMWSSB) results are also indicated the mercury levels are well below the permissible limits. ✓ TNPCB analyzed samples (11.08.2023, 16.08.2023, 28.08.2023, 03.04.2024) through different laboratories (IIT CUBE, Chennai Mettex, TN Test House, AEL) the mercury levels are well below the permissible limits.	

✓ NLCIL Lignite samples and Fly Ash Samples were tested by IIT CUBE and indicated no presence of Mercury. ✓ TNPCB released a press release on 17.10.2023, mentioning "No evidence of pollution in Neyveli" ✓ NGT final hearing is scheduled on 12.06.2025.

Observations and deliberation of the EAC

25.2.7: The Committee observed and noted the following:

i. Instant proposal of M/s. NLC India Limited is for seeking amendment in the EC dated 21/10/2010 regarding deletion of EC conditions related to CSR and permission to send the treated wastewater from NNTPS to the agricultural fields in the nearby area of the project site. The validity extension of the said EC was accorded on 09/03/2016.

ii. The components envisaged under the EC dated 21/10/2010 have been implemented and the unit is under operation.

iii. The Committee taken into cognizance the court case pending before the Hon'ble NGT(SZ) and noted that the matter is posted for final hearing on 12/06/2025.

iv. The committee deliberated on the additional information submitted by the proponent and found it satisfactory.

Recommendations of the Committee:

25.2.8: In view of the foregoing and after detailed deliberations, the committee ***recommended*** the instant proposal for grant of following amendment in EC dated 21/10/2010, as detailed below subject to stipulation of following additional specific conditions. All Other terms and conditions prescribed in EC dated 21/10/2010 and 09/03/2016 shall remain unchanged:

Condition No. as per EC dated 21/10/2010	Description as per approved EC	Recommendation of EAC
General Conditions Sr.no (i)	**The treated effluents conforming to the prescribed standards only shall be re- circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon.** Arrangements shall be made that effluents and storm water do not do not get mixed.	**Agreed** Concerning the changes in general condition no. (i) of EC dated 21/10/2010, Committee recommended to amend the general condition no. i as follows: *"The treated effluents conforming to the prescribed standards may be discharged outside the plant premises with a prior approval of TNPCB for irrigation purpose only"*

Condition No. as per EC dated 21/10/2010	Description as per approved EC	Recommendation of EAC
Specific Condition (Xxiv)	An amount of Rs 22.40 Crores shall be earmarked as one time capital cost for CSR programme. **Subsequently a recurring expenditure of Rs 4.5 Crores per annum shall be earmarked as recurring expenditure for CSR activities.** Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	**Agreed** Concerning the changes in specific condition no. (xxiv) of EC dated 21/10/2010, Committee recommended to amend the specific condition no. (xxiv) as follows: *"An amount of Rs 22.40 Crores shall be earmarked as one time capital cost for CSR programme. Details of the activities undertaken in this regard shall be submitted to the Regional Office of the MoEF&CC along with the six monthly compliance report."*

Additional specific conditions:

1. All the recommendations made in the Study report of Tamil Nadu Agricultural University shall be strictly adhered with and compliance of the same shall be submitted to the TNPCB and Regional Office of MoEF&CC along with the six monthly compliance report.

2. Project proponent shall monitor the quality of treated wastewater and ground water samples in the areas to be used for irrigation purposes during January & May month of every year and the monitored data shall be submitted to the TNPCB and Regional Office of MoEF&CC along with the six monthly compliance report.

3. Project proponent shall abide by all orders and judicial pronouncements, made from time to time by the Hon'ble National Green Tribunal (Southern Zone) in O.A 107 of 2023.

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ANNEXURE-I

LIST OF PARTICIPANTS OF EAC (THERMAL) IN 25th MEETING HELD ON 27TH MAY, 2025 THROUGH PHYSICAL MODE

S. No.	Name & Address	Role	Remarks
1.	Shri Inder Pal Singh Matharu, (I.F.S. Retd.)	Chairman	Present
2.	Shri Lalit Kapur	Member	Present (Through VC)
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present (Through VC)
5.	Shri Savalge Chandrasekhar	Member	Present
6.	Shri K. B. Biswas	Member	Present
7.	Prof. Shyam Shanker Singh	Member	Present
8.	Dr. Vinod Agrawal	Member	Present
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present
11.	Shri Harmeet Sawhney, Scientist 'E'	Representative of Indian Meteorological Department (IMD)	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Absent
13.	Shri Prasoon Gargava, Scientist 'F'	Representative of Central Pollution Control Board	Present (Through VC)
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present
14.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present

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ANNEXURE-II

APPROVAL OF CHAIRMAN – EAC

Re: Re: Final draft MoM of the 25TH EAC - THERMAL HELD ON 27/05/2025

10 emails

Inderpal Singh Matharu < matharu0204@gmail.com >
Tue, 03 Jun 2025 6:45:34 AM +0530

To "Sundar Ramanathan"<r.sundar@nic.in>
Cc "RAJESH PRASAD RASTOGI"<rp.rastogi@gov.in>

Dear Sundar ji,
I have gone through the final draft MoM of the 25th EAC- THERMAL held on 27/05/2025. In this all the points have been incorporated including the amendments done in Zero draft of it.
Hence I approve the MoM of the 25th EAC- THERMAL .

Sincerely yours

Inder Pal Singh Matharu
Chairman
EAC Coal mining and Thermal power
MoEF&CC
GoI