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JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED

Jindal ITF Centre, 28 Shivaji Marg, New Delhi-110015; Tel No.: 011-66463983/84
Corres. Address: Adjacent DTC Tehkhand Depot, Maa Anandmai Marg, New Delhi-110020

Ref. No.: JUWMBL/MoEFCC/2026-27/006

To,

The Director IA.I,

Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan, Jor Bagh Road,
New Delhi- 110003.



Date: 28-05-2026

Subject: Submission of **Six-monthly Compliance Report (October, 2025 to March, 2026)** for "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector-5, Bawana, Delhi-110039 by M/s Jindal Urban Waste Management (Bawana) Limited.

Reference: (i) Environment Clearance letter vide EC Identification No. EC25A0603DL5984671N and File No.: J-13012/04/2023-IA.I (T) dated 18/06/2025.

Respected Sir,

This is to inform you that the HT line shifting work is under progress by PGCIL, after completion of line shifting work, MCD shall provide land clearance for commencement of project activities. The commitments made regarding the implementation of various activities during the grant of Environment Clearance will be executed accordingly.

Further, in compliance with statutory requirements, we are submitting the six-monthly compliance report for the period **October 2025 to March 2026**, along with the necessary annexures and soft copies on CD, for the "Proposed Waste to Energy Thermal Power Project of 30 MW capacity" located at DSIIDC Industrial Area, Sector-5, Bawana, Delhi-110039, by M/s Jindal Urban Waste Management (Bawana) Limited.

A soft copy of the said report has also been emailed to the Regional Office of MoEF&CC and the Zonal Offices of CPCB and SPCB (DPCC) at the following addresses: roc2.lko-mef@nic.in, mscb.cpcb@nic.in, and msdpcc@nic.in, respectively.

We kindly request you to acknowledge receipt of the compliance report.

Thanking You.

Yours Sincerely,

For M/s Jindal Urban Waste Management (Bawana) Limited

(Authorized Signatory)



Copy to:

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Bhawan, 11th Floor, Sector "H", Aliganj, Lucknow – 226024.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD- cum-Office Complex, East Arjun Nagar, Delhi- 110032.
3. The Chairman, Delhi Pollution Control Committee, 3rd floor, Block-B, Delhi IT Park, Shastri Park, Delhi- 110053.
4. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi- 110066.

Encl: As above

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केन्द्रीय पंजीकरण अनुभाग

केन्द्रीय विद्युत प्राधिकरण

पत्र प्राप्त

दिनांक 28/5/26
सेवा भवन, आर.के. पुरम, नई दिल्ली-66

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SPEED POST RECEIPT

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Booking Office: Kalkaji HO (110019)
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ModeofPayment: ONLINE PaymentTransactionID: S415807262915 (i)

Sender	Receiver
MANOJ KUMAR Mobile No. 7500742199 TIMARPUR	DEPUTY DIRECTOR Mobile No. 1234567890 MINISTRY OF FOREST A
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ModeofPayment: ONLINE PaymentTransactionID: S415807262915 (i)

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ModeofPayment: ONLINE PaymentTransactionID: S415807262915 (i)

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Booking Office: Kalkaji HO (110019)
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ModeofPayment: ONLINE PaymentTransactionID: S415807262915 (i)

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Booking Office: Kalkaji HO (110019)
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ChargedWeight(gms): 480 Phy.Wt(gms): 480 Vol.Wt(gms): NA(L:NA B:NA H:NA)
ModeofPayment: ONLINE PaymentTransactionID: S415807262915 (i)

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Encl: As above

Submission of Six-Monthly Compliance Report

[Period: October, 2025 to March, 2026]

for

“Proposed Waste to Energy Thermal Power Project of capacity 30 MW”

**Located at DSIIDC Industrial Area, Sector-5, Village - Bawana,
Sub-district - Narela, District – North Delhi, Delhi-110039 Bawana,
Delhi-110039.**

by



**M/s Jindal Urban Waste Management (Bawana)
Limited**

M/s Jindal Urban Waste Management (Bawana) Limited

(EC Identification No. EC25A0603DL5984671N;

File No. J-13012/04/2023-IA.I (T); dated 18/06/2025)

Six - Monthly Compliance Report

(Period: October, 2025 to March, 2026)

S. No.	EC Conditions	Compliance Status
Specific EC Conditions for (Thermal Power Plants)		
1	Environmental Management	
1.1	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.	Noted and will be complied.
1.2	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.	Noted and will be complied.
1.3	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.	Noted and will be complied with. The stipulated condition is applicable specifically to large isolated compost facility (without WtE Plant). However, this is a Waste-to-Energy plant where the MSW will be supplied by Municipal Corporation of Delhi (MCD). The waste received at facility shall be further segregated, and the non-recyclable fraction having calorific value of ≥ 1500 kcal/kg shall be processed and utilized for energy generation. The recyclables, if any, will be sent to the authorized recyclers.
1.4	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°C in secondary combustion chamber and with a gas	Noted and will be complied during operation phase.

S. No.	EC Conditions	Compliance Status
	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%.	
1.5	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.	Noted. The ash utilization notification dated 31/12/2021 pertains to lignite and coal based thermal power plants. However, any directions or orders issued by concerned authority regarding ash utilization for waste-to-energy plants will be followed. During the operation phase, the ash generated will be utilized as per market demand and unutilized quantity will be sent to the landfill, as per the agreement with MCD.
1.6	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.	Noted and will be complied. Further, HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities.
1.7	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.	Noted and will be complied.
1.8	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	Noted and will be complied. Approximately, 625 KLD water required for operation of the plant which will be met from

S. No.	EC Conditions	Compliance Status
	wastewater from Sewage Treatment Plant (STP) of Delhi Jal Board purposes and 7 m ³ /day fresh water shall be met from drinking water supply of DJB for domestic (DJB) for industrial purposes. Air-Cooled Condenser shall be used to reduce fresh water requirement and no ground water abstraction shall be allowed.	blowdown reject water of Pragati Power Corporation Limited (PPCL) or treated wastewater from Sewage Treatment Plant (STP) of Delhi Jal Board. Approximately, 7 KLD of freshwater will be required for drinking and domestic purpose which will be supplied by the DJB. No ground water will be extracted for the project.
1.9	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.	Noted and will be complied. The strengthening of the embankment and development of greenbelt/plantation along the periphery of the nallah shall be undertaken based on the recommendations/concurrence of the concerned departments MCD/Irrigation Department.
1.10	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.	Noted and will be complied.
1.11	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.	Noted and will be complied. Rs. 1.18 lakh was spent in FY 2025-26 under CER for providing medical camp in JJ colony, Bawana, New Delhi.
1.12	Project proponent shall take prior permission from the Competent Authority to divert high tension line passing through the project site.	The responsibility for shifting the high-tension line lies with the Municipal Corporation of Delhi (MCD) and related communication is attached as Annexure - 1 .
1.13	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	Noted and will be complied. The detailed action plan will be submitted.

S. No.	EC Conditions	Compliance Status
	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.	
1.14	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.	Noted and will be complied. The HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities. Construction activities will start after obtaining Consent to Establish (CtE) from the DPCC.
1.15	Project proponent shall carry out community plantation with incentive scheme by distributing 5,000 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.	Noted and will be complied. An awareness programme on the significance and preservation of trees was conducted in Govt. Girls Sr. Secondary School, Bawana, where class-VII students participated enthusiastically. In addition, 25 saplings (Ficus and Ashok) were planted in the school premises as part of greenbelt development. Photographs are attached as Annexure - 2.
1.16	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	The Wildlife Conservation Plan has been approved by the Conservator of Forests (HQ) and the Wildlife Officer, GNCTD, <i>vide</i> F. No. 260/CWLW/WL/JindalWLP/10980-82 dated 26.11.2025, along with an allocation of ₹60 lakh for its effective implementation. The approved conservation plan was

S. No.	EC Conditions	Compliance Status
	concerned authority shall be deposited in government account.	subsequently submitted to RO, MoEFCC via email dated 27.12.2025 Further, as committed, Rs. 11 lakh has been deposited to Dy. Conservator of Forest (North) through Demand Draft No. 49010 dated 19.02.2026 for FY 2025-26. A copy of intimation email to RO, MoEFCC along with the Approved Wildlife Conservation plan, revised budget for conservation plan submitted to Forest and Wildlife Department, GNCTD and payment correspondences with the Forest Department are attached as Annexure – 3 .
1.17	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.	Noted and will be complied.
1.18	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.	Noted and will be complied.
1.19	Project proponent shall deploy mechanical road sweepers for everyday cleaning of the roads in and around plant site.	Noted and will be complied.
1.20	Environment Audit of plant shall be done annually and report shall be submitted to Regional office of the Ministry.	Noted and will be complied.
1.21	Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.	Noted. Oils and Grease (O&G) in Municipal Solid Waste (MSW) are present in very small fractions which will be removed through the Dissolved Air Flotation (DAF) unit during the treatment process along with the sludge.

S. No.	EC Conditions	Compliance Status
		After dewatering, the sludge will be fed to the boiler.
1.22	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.	Noted and will be complied. The HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities
1.23	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.	Noted and will be complied.
1.24	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.	Noted and will be complied. The HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities. Construction activities will start after obtaining Consent to Establish (CtE) from the DPCC.
1.25	PP is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5 th 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.	Noted and will be complied.
1.26	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.	Noted and will be complied.

S. No.	EC Conditions	Compliance Status
2	Socio – Economic	
2.1	All the recommendations of the epidemiological study report by IIMR 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.	Noted and will be complied. The HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities.
2.2	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.	Noted and will be complied. Medical Health Check-up camp was organized under CER in JJ Colony, Bawana, Delhi, for FY 2025-26, for which expenditure of Rs. 1.18 lakh incurred. Comprehensive report along with photographs are enclosed as Annexure - 4 .
2.3	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.	Noted and will be complied.
3	Miscellaneous	
3.1	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.	Noted and will be complied during construction and operation phases.
3.2	Consent under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and	Noted and will be complied.

S. No.	EC Conditions	Compliance Status
	Control of Pollution) Act, 1974 and Authorization under Solid Waste Management Rules, 2016 and Hazardous and other Wastes (Management & Transboundary Movement) Rules, 2016 for the proposed project shall be obtained from the Delhi Pollution Control Committee.	The HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities.
3.3	All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.	Noted.
Standard EC Conditions for (Thermal Power Plants)		
1	Statutory Compliance	
1.1	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.	Noted and will be complied.
1.2	Environmental Guidelines for Compressed Biogas Plant (CBG)/Bio-CNG Plants, 2022 of CPCB shall be followed for bio-methanation plant based on municipal solid waste.	Noted.
1.3	MoEF&CC Notifications on Ash Utilization S.O. 5481 (E) dated 31/12/2021 as amended from time to time shall be complied.	Not Applicable. The mentioned MoEF&CC notification on ash utilization is applicable for coal and lignite based thermal power plants. However, any directions or orders issued by concerned authority regarding ash utilization for waste-to-energy plants will be followed. During the operation phase of WtE plant, the ash generated will be utilized as per the market demand and unutilized quantity will be sent to the landfill, as per the agreement with MCD.
2	Ash Content/mode Of Transportation of Coal	
2.1	Waste shall be transported in covered vehicles and the wheel-washing facility shall be provided at the entry and exit of the plant.	Noted and will be complied.
2.2	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.	Noted and will be complied.
3	Air Quality Monitoring and Management	

S. No.	EC Conditions	Compliance Status
3.1	Project proponent shall manage the foul odour emerging as a result of waste processing as per CPCB guidelines issued from time to time.	Noted and will be complied. The MSW storage pit will be kept in enclosed negative pressure with the air flow routed to the boiler which prevents unpleasant odour from escaping into the atmosphere. For effective odour control, bio inoculums comprising of consortium of microorganism called EM culture will also be used. Additionally, herbal spray will be sprayed through a fogging nozzle for controlling odour.
3.2	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.	Noted and will be complied.
3.3	Selective Non-Catalytic Reduction (SNCR) system or Low NO _x combustion system shall be installed to achieve NO _x emission standard as prescribed in Solid Waste Management Rules, 2016 or by DPCC whichever is stringent.	Noted and will be complied.
3.4	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 .	Noted and will be complied. Bag Filter House made of PTFE (Polytetrafluoroethylene) with 130% design capacity for controlling Particulate matter emissions will be installed to ensure that particulate matter (PM) emission meet the stipulated standards of 30 mg/Nm ³ .
3.5	One common stack with a height of 60 meters shall be provided with continuous online monitoring instruments for SO ₂ , NO _x and Particulate Matter as per extant rules.	Noted and will be complied.
3.6	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.	Noted and will be complied.

S. No.	EC Conditions	Compliance Status
3.7	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.	Noted and will be complied.
3.8	Adequate dust extraction/suppression system shall be installed in waste handling, ash handling areas and material transfer points to control fugitive emissions.	Noted and will be complied.
3.9	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 areas, etc.	Noted and will be complied.
4	Noise Pollution and Its Control Measures	
4.1	The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.	Noted and will be complied.
4.2	Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.	Noted. PPEs (ear plugs/ear muffs) will be provided to persons working in high noise areas.
4.3	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.	Noted. Periodic medical examinations for hearing loss will be conducted for workers, and records will be maintained accordingly. A provision will be made for rotating workers between high-noise and low-noise areas to minimize exposure.
5	Human Health Environment	
5.1	Personnels handling municipal solid waste or being present on the tipping floor shall be provided with PPE like shoe covers, gloves, masks, etc.	Noted and will be complied.
5.2	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.	Noted and will be complied.
5.3	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.	Noted. Health check-up of all the workers will be conducted periodically.

S. No.	EC Conditions	Compliance Status
	Similarly, the study shall also assess the health impacts due to air polluting agents.	
5.4	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.	Noted and will be complied.
6	Water Quality Monitoring and Management	
6.1	Proponent shall achieve specific water consumption of the WTE below 3.0 m ³ /MWhr.	Noted.
6.2	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.	Noted and will be complied with. The project is designed based on the zero liquid discharge concept.
6.3	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.	Noted and will be complied.
6.4	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.	Noted and will be complied.
6.5	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.	Noted and will be complied.
6.6	Project proponent shall use the sludge obtained from the Leachate Treatment Plant as fuel into incinerator after dewatering by screw press technique.	Noted and will be complied.
7	Risk Mitigation and Disaster Management	

S. No.	EC Conditions	Compliance Status
7.1	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.	Noted and will be complied.
7.2	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.	Not Applicable. Coal yard will be used in coal-fired thermal power plant. This is a waste to energy plant where MSW is used as raw fuel for energy generation. MSW will be stored in an enclosed pit for which all necessary safety measures have been considered.
7.3	Only RDF shall be fed into incinerator for generation of energy and no other kinds of fuel shall be used.	Noted and will be complied.
7.4	Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Noted and will be complied.
7.5	Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.	Noted and will be complied.
7.6	Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.	Noted and will be complied.
8	Green Belt and Biodiversity Conservation	
8.1	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.	Noted and will be complied.
8.2	In-situ/ex-situ Conservation Plan for the flora and fauna in the vicinity of the proposed site should be prepared and implemented.	The Wildlife Conservation Plan has been approved by the Conservator of Forests (HQ) and the Wildlife Officer, GNCTD, vide F. No. 260/CWLW/WL/JindalWLP/10980-82; dated 26.11.2025, along with an allocation of ₹60 lakh for its effective implementation. As committed, Rs. 11 lakh has been deposited to Dy. Conservator of Forest (North) through demand draft no. 49010 dated 19.02.2026 for FY 2025-26. Details of the same are attached as Annexure - 3 .
9	Waste Management	

S. No.	EC Conditions	Compliance Status
9.1	Municipal solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.	Noted and will be complied.
9.2	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.	Noted and will be complied.
9.3	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.	Not Applicable. The mentioned MoEF&CC notification and amendment thereto on ash utilization is applicable for coal and lignite based thermal power plants. However, any directions or orders issued by concerned authority regarding ash utilization for waste-to-energy plants will be followed. During the operation phase, the ash generated will be utilized as per market demand and unutilized quantity will be sent to the landfill, as per the agreement with MCD.
9.4	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.	Noted and will be complied.
10	Monitoring of Compliance	
10.1	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.	Noted. Renewable Purchase Obligation (RPO) is not applicable on this project as it is a Municipal Solid Waste based Waste-to-Energy project which itself is a Renewable energy source, recognized by Ministry of Power (MoP, vide National Tariff Policy) and Central Electricity Regulatory Commission (CERC, vide Renewable Energy Regulation) and supported by the Ministry of New and Renewable Energy (MNRE), Government of India, under the National Bioenergy and Waste-to-Energy Programme.

S. No.	EC Conditions	Compliance Status
10.2	The project proponent shall (Post-EC Monitoring): - send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government; - upload the clearance letter on the web site of the company as a part of information to the general public. - 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. - upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically; - monitor the criteria pollutants level namely; PM (PM₁₀ & PM_{2.5} in case of ambient AAQ), SO₂, NO_x (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; - 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;	Noted for compliance. - Complied. A copy of environmental clearance letter was sent to all concerned offices of the government. Receiving of the same are attached as Annexure- 5. - Complied EC Copy is uploaded on the company website and screenshot of the same is attached as Annexure-6. - Complied. The Environmental Clearance (EC) was advertised within seven days from the date of issuance of the clearance letter in the English newspaper The Pioneer (Page 9) on 23.06.2025, and in the Hindi newspapers The Pioneer (Page 2) and Punjab Kesari (Page 9) on 23.06.2025. Enclosed as Annexure – 7. - Noted and complied. The previous six-monthly compliance report is uploaded on the company website (Link: http://www.juwmbbl.com/CR.aspx) Screenshot of the same is enclosed as Annexure – 8. - Noted and will be complied. Further, the HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities. - Noted and complied. The previous six-monthly compliance report was submitted both in hard copies as well as by email to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB, and the DPCC. The receiving of hard copy and email are attached as Annexure – 9. Further, the HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land

S. No.	EC Conditions	Compliance Status
	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.	clearance for commencement of project activities. g. Noted and will be complied. Further, the T line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities. h. Noted and will be complied.
11	Corporate Environmental Responsibility (CER) Activities	
11.1	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.	Noted for compliance. Further, the HT line shifting work is under progress by PGCIL. After completion, MCD shall provide land clearance for commencement of project activities. The commitment made under CER, as discussed in EIA/EMP report, will be implemented. However, Rs. 1.18 lakh was spent under CER in FY 2025-26 for organizing medical camps in JJ colony, Bawana, New Delhi. The remaining CER amount for FY 2025–26 will be implemented in the upcoming year.

LIST OF ANNEXURES

Annexure No.	Description
Annexure - 1	MCD Letter to Power Grid regarding shifting the high-tension line.
Annexure - 2	Plantation Awareness Programme and greenbelt development in Govt. Girls Sr. Secondary School, Bawana, New Delhi.
Annexure - 3	A copy of intimation email to RO, MoEFCC along with the Approved Wildlife Conservation plan, Revised Budget submitted to the Forest and Wildlife Department, GNCTD and Payment correspondences with the Forest Department.
Annexure - 4	Comprehensive Report on the Medical Health Check-up Camp including the photographs.
Annexure - 5	Receivings of the intimation letter regarding the grant of Environmental Clearance, sent to all concerned government offices.
Annexure - 6	Environment Clearance Letter uploaded on Company Website.
Annexure - 7	Newspaper Advertisement regarding the grant of Environment Clearance.
Annexure - 8	EC compliance uploaded on the company website.
Annexure - 9	Receivings of submission of six-monthly compliance report both in hard copies as well as by email to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB, and the DPCC.

ANNEXURE – 1

**MCD Letter to Power Grid regarding shifting
the high-tension line.**



MUNICIPAL CORPORATION OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER (WtE) DEMS
Room No.1901, 19th Floor, Dr. SPM, Civic Centre
JLN Marg, New Delhi- 110002
email: eedems-hq@mcd.nic.in
Phone: 011-23226949

No.: EE/WtE/MCD/DEMS/2025-26/D-44

Date: 30/10/2025

DGM, Bahadurgarh
Power Grid Corporation of India Limited
400/220 kV Sub -station
Village: DabodaKhurd, Bahadurgarh-Jhajjar Road,
Bahadurgarh, Distt-Jhajjar, Haryana-124507

Subject: Shifting of Transmission Lines of POWERGRID and DTL for setting up of Municipal Solid Waste (MSW) to Energy Facility at Narela- Bawana, Delhi

Ref.: Your letter No. NR1/Bgarh/Diversion/MCD/2025 – 92 dated 08/10/2025

This is in reference to your above-mentioned letter, vide which the route layout of the proposed shifting work has been shared with MCD. It was earlier informed to you vide email dated 15/10/2025 that the proposed towers Twr-2, Twr-2A, MC1, MC2, and MC3, located within MCD land, appear to be in order. However, the status of the land where the DD-type Tower No. 4 is proposed—across the canal near the existing PowerGrid tower (proposed to be dismantled)—is not known to this office. Since an existing PowerGrid tower already exists at the said location, it is presumed that your office may have information regarding the ownership or status of the land.

In response, your office has informed that the said POWERGRID line was constructed more than 25 years ago, and at that time, no policy for land compensation was in force. Hence, no records or details regarding land ownership are available with POWERGRID, and the same may be ascertained from the local revenue department.

Pursuant to this, MCD staff have carried out a preliminary local enquiry and found that the land across the canal pertains to DSIIDC. However, it has been observed that the location of the existing POWERGRID Tower TN-4 (proposed to be dismantled) has not been correctly shown in the route layout plan and is depicted much farther from the canal than its actual position at site. This discrepancy can be verified from the Google image of the area where the existing Tower TN-4 is located.

The route layout plan submitted by your office and the corresponding Google image showing the actual location of Tower TN-4 are enclosed herewith for ready reference. You are requested to kindly recheck and make necessary corrections in the route layout plan. There is a possibility that dismantling of the existing Tower TN-4 may not be required if its correct location is considered, as it is actually closer to the proposed tower location.

Additionally, your office has informed that the final route has been proposed parallel to the MCD boundary wall along the canal and that a Right of Way (RoW) of 46 meters is to be maintained from the MCD boundary wall. It has also been stated that the said route, along with tower profiles,

will be sent to your Engineering Department for technical review and that any changes, if required, will be incorporated accordingly. In this regard, you are requested to provide the final route layout plan after completing all internal formalities at the earliest, so as to enable MCD to finalize the land boundaries to be handed over to the concessionaire for the project.

This is submitted for your kind information and necessary action, please.

Encl.: As above

-sd-
Executive Engineer (WtE) DEMS

Copy for kind information to:

1. Additional Commissioner (Engg. & DEMS)
2. E-in-C-II
3. CE (Project)/DEMS
4. SE (DEMS)HQ


Executive Engineer (WtE) DEMS

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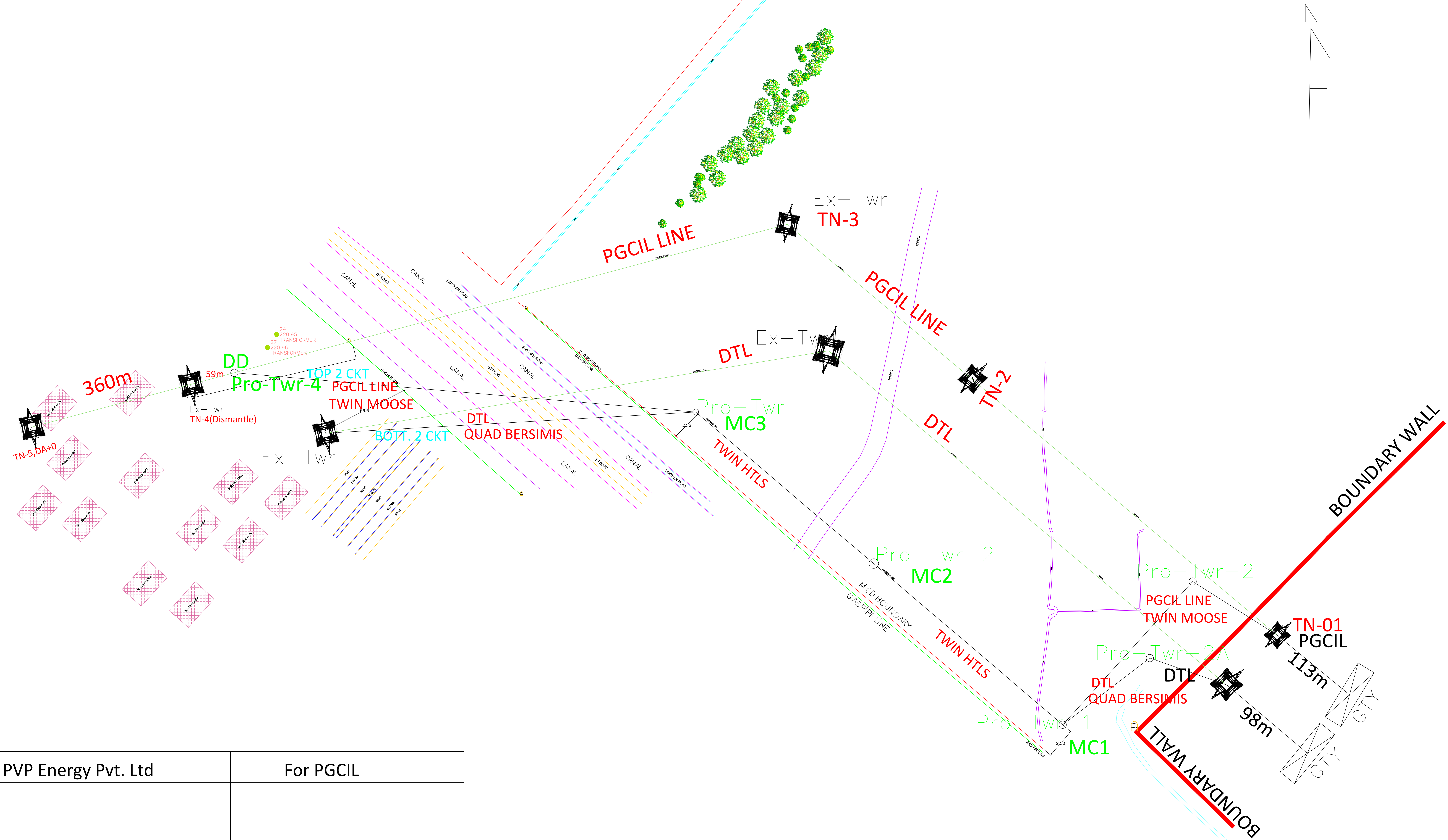
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Diversion of 400kV transmission lines of POWERGRID and DTL in NR I due to infringement with upcoming waste to energy facility of Municipal Corporation of Delhi (MCD)



PVP Energy Pvt. Ltd	For PGCIL

NOTES: ALL 3 PROPOSED TOWER (3MCT) TOWER PROPOSED 23 MTR DISTANCE FROM THE EXISTING BOUNDARY WALL
+9mtr Extn Proposed for the PGCIL D/C Twr to maintain sufficient phase to Phase distance considering MCT Twr Entry.

ANNEXURE – 2

**Plantation Awareness Programme and
greenbelt development in in Govt. Girls Sr.
Secondary School, Bawana, New Delhi.**

AWARENESS PROGRAMME ON THE SIGNIFICANCE AND PRESERVATION OF TREES ALONG WITH PLANTATION DRIVE IN GOVT. GIRLS SR. SECONDARY SCHOOL, BAWANA





Government Girls Senior Secondary School, Bawana
J.J.-1 Colony, Bawana, District North West-Delhi

To,
Business Head,
JUWM (Bawana) Ltd.-Delhi

Date : 18th December 2025

Letter of Appreciation

Dear Sir,

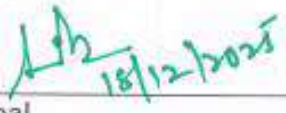
On behalf of the entire academic fraternity of Government Girls Senior Secondary School, Bawana, I extend our sincere appreciation and deep gratitude to the esteemed delegation of Jindal Group – Jindal Urban Waste Management (Bawana) Limited for their inspiring and purposeful visit to our school.

The tree plantation awareness campaign conducted by your organization was not merely an activity, but a powerful expression of responsible corporate leadership and environmental stewardship. The well-structured awareness session for Class VII students effectively highlighted the scientific, ecological, and life-sustaining importance of trees, seamlessly linking plantation with human health, climate balance, and sustainable living. The students were highly engaged and motivated to embrace environmental protection as a lifelong responsibility.

The passion, humility, and sincerity displayed by the Jindal delegation truly reflect your organization's unwavering commitment towards sustainability, environmental awareness, and community development. Such initiatives leave a lasting impact on young minds and play a vital role in nurturing environmentally conscious future citizens.

We are honoured to have been associated with an organization of such vision, values, and social responsibility. We once again convey our highest appreciation and look forward to continued collaboration in the larger interest of society and the environment.

With warm regards,


Principal

Government Girls Senior Secondary School, Bawana-Delhi
District: North West
ID: 1310414

H.O.
Govt. Girls Sr. Sec. School
No. 1 J.J. Colony, Bawana
Delhi-1100039
School ID-1310414

ANNEXURE – 3

A copy of intimation email to RO, MoEFCC along with the Approved Wildlife Conservation plan, Revised Budget submitted to the Forest and Wildlife Department, GNCTD and Payment correspondences with the Forest Department.

From: Kaushal Rastogi
Sent: 27 December 2025 12:03
To: rocz.lko-mef@nic.in
Cc: Sandip Dutt; Bikramjit Singh
Subject: Re: Approved Wildlife Conservation Plan for M/s Jindal Urban Waste Management (Bawana) Limited, Delhi -110039
Attachments: Wild Life Conservation Plan.pdf

Dear Sir,

This is in reference to the Environment Clearances vide MOEF&CC Order No. J-13012/04/2023-IA.I (T) dated 18.06.2025 granted to **M/s Jindal Urban Waste Management (Bawana) Limited, Delhi-110039**. Further, in reference to the Specific EC Conditions S. No. 1.16 –

“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.”

Please find attached the Wildlife Conservation Plan duly approved by Dept. of Forests and Wildlife for your kind reference.

Regards,
Kaushal Rastogi

From: Kaushal Rastogi <Kaushal.Rastogi@jindalecopolis.com>
Sent: Saturday, September 13, 2025 11:26 AM
To: rocz.lko-mef@nic.in <rocz.lko-mef@nic.in>
Cc: Sandip Dutt <Sandip.Dutt@jindalecopolis.com>; Bikramjit Singh <Bikramjit.Singh@jindalecopolis.com>
Subject: Wildlife Conservation Plan submitted to CWLW by M/s Jindal Urban Waste Management (Bawana) Limited, Delhi

Dear Sir,

This is in reference to the Environment Clearances vide MOEF&CC Order No. J-13012/04/2023-IA.I (T) dated 18.06.2025 granted to M/s Jindal Urban Waste Management (Bawana) Limited, Delhi-110039. Please find herewith soft copy of the Wildlife Conservation Plan submitted to CWLW for approval.

The hard copy of the same has been sent to your good office by registered post on 11.09.2025 and receipt attached for your kind reference.

This is for your kind information and acknowledgment please.

Thank You!!

Best Regards,
Kaushal Rastogi

GOVERNMENT OF NCT OF DELHI
DEPARTMENT OF FOREST AND WILDLIFE
VIKAS BHAWAN, A-BLOCK, 2 ND FLOOR, I.P. ESTATE,
NEW DELHI-110002

Email: wlo.gnctd@delhi.gov.in; cwlw.gnctd@gmail.com

F.No.260/CWLW/WL/JindalWLP /10980-82

Dated: 26/11/25

To,

M/s Jindal Urban Waste Management (Bawana) Limited,
Jindal ITF Centre, 28 Shivaji Marg,
New Delhi-110015

Subject: Approval of Wildlife Conservation Plan for the Proposed Waste to Energy Thermal Power Project of Capacity 30 MW at DSIIDC Industrial Area, Sector-5, Bawana, Delhi – Reg.

Reference: 1. Your Letter No.JUWMBL/2024-25/1401 dated 14.01.2025.
2. Your Letter No.JUWMBL/2024-25/17 dated 10.07.2025.

This is in reference to your letters cited above, submitting the Wildlife Conservation Plan (WCP) for the proposed Waste to Energy Thermal Power Project (30 MW) at DSIIDC Industrial Area, Sector-5, Bawana, Delhi-110039.

The submitted Wildlife Conservation Plan has been reviewed by this Department. We are pleased to inform you that the said Wildlife Conservation Plan is hereby approved, incorporating the proposed budget submitted by you vide letter number JUWMBL/2024-25/17 dated 10.07.2025 amounting to Rs 60 lakhs, for its effective implementation.

In accordance with the approved Wildlife Conservation Plan (WCP), you are also required to coordinate with the DCF (North) for its implementation and deposit the funds allocated for the conservation activities once the EC has been obtained. Proof of remittance should be submitted to this office for records within fifteen (15) days from the date of issue of the final clearance along with a copy of the clearance.

The approval of this Wildlife Conservation Plan is subject to strict adherence to the following conditions, in addition to all commitments made in the WCP document:

- i. **Statutory Compliance:** The project proponent shall ensure full compliance with all provisions of the Wildlife (Protection) Act, 1972 (as amended from time to time), the Forest (Conservation) Act, 1980 other relevant laws, rules, and regulations of the country, as applicable.
- ii. **Protection of Wildlife and Habitat:** No damage, destruction, or disturbance shall be caused to any wildlife, including but not limited to Schedule-I species, their nests, dens, habitats, or corridors within and in the vicinity of the project area during any phase of the project. Any accidental sighting,

injury, or mortality of wildlife shall be immediately reported to the concerned Deputy Conservator of Forests (North Division) and this office.

iii. **Cooperation with Forest Department:** The project proponent shall extend full cooperation to officials of the Forest Department for inspections, monitoring, and any additional measures that may be deemed necessary for the protection and conservation of wildlife in the area.

iv. **Restoration and Rehabilitation:** In case of any accidental damage to wildlife habitat attributable to project activities, the proponent shall undertake restoration and rehabilitation measures as directed by this Department, at their own cost.

v. **No new threats:** The project activities shall not lead to the creation of new threats to wildlife, such as introduction of invasive alien species, increased pollution (beyond permissible limits after mitigation) affecting nearby ecosystems, or creation of barriers to animal movement, unless specifically addressed and mitigated in the approved WCP.

vi. **Periodic Review:** The implementation process will be periodically reviewed by Dy. Conservator of Forests (North) to ensure that wildlife and related elements are not being adversely affected.

This approval is granted to facilitate your submission to the MoEF&CC for obtaining Environmental Clearance. It is expected that all commitments will be honoured to ensure the conservation of wildlife in the region.

—Asabesth
26/11/2025

(Jabestin. A, IFS)
Conservator of Forests (HQ)
Wild Life Officer

Copy to:

1. The PCCF/CWLW, Department of Forests and Wildlife, GNCTD.
2. Deputy Conservator of Forest (North Division), Department of Forests and Wildlife, GNCTD – *for implementation of approved Wildlife Conservation Plan in close coordination with M/s Jindal Urban Waste Management (Bawana) Limited.*

Ref No.: JUWMBL/2024-25/1401

Date: 14.01.2025

To,

The Principal Chief Conservator of Forests
Department of Forests and Wildlife,
Government of National Capital Territory of Delhi,
A-Block, 2nd Floor, Vikas Bhawan, I.P. Estate, New Delhi-110002
Email Id pccf-gnctd@delhi.gov.in

Sub: Submission of Wildlife Conservation Plan for Schedule - I species for the Proposed Waste to Energy Thermal Power Project of Capacity 30 MW by M/s Jindal Urban Waste Management (Bawana) Limited at DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI- 110039.

Dear Sir,

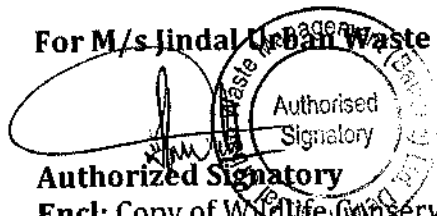
M/s Jindal Urban Waste Management (Bawana) Limited is proposing Waste to Energy Thermal Power Project of Capacity 30 MW at DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI- 110039.

We are in the process of getting Environment Clearance for the above project from the Expert Appraisal Committee (EAC), MOEF & CC. For the same we are submitting to you Wildlife Conservation Plan along with budget for conservation of Schedule-I species found in the study area. In view of the above, we request you to kindly approve the Wildlife Conservation Plan for Schedule-I species, which is enclosed herewith so as to submit the plan to MoEF&CC for issue of Environmental Clearance for the aforementioned project.

Thanking You,

Yours faithfully,

For M/s Jindal Urban Waste Management (Bawana) Limited



Authorized Signatory

Authorized Signatory

Encl: Copy of Wildlife Conservation Plan for Schedule - I Species.

Copy to: i) Dy. Conservator of Forest (HQ), Department of Forests and Wildlife, Government of National Capital Territory of Delhi.

ii) Dy. Conservator of Forest (North Division)

WILDLIFE CONSERVATION PLAN

(Schedule – I Species as per WPA 2022)

FOR

WASTE TO ENERGY THERMAL POWER PROJECT OF CAPACITY 30 MW

AT

DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI- 110039.

CATEGORY 'A' SCHEDULE 1 (D) AS PER EIA NOTIFICATION, 2006 AND,
AMENDMENTS THEREOF

(TOR ISSUED: 10.01.2024, FILE NO: J-13012/04/2023-IA.I (T);

TOR IDENTIFICATION NO.: TO23A0603DLS223800N)



PROJECT PROPONENT



M/s JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED

Prepared by



MANTEC CONSULTANTS PVT.LTD.

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July, 2024

TABLE OF CONTENTS

CHAPTER-1: INTRODUCTION	1
1.1 Preamble.....	1
1.2 Background	2
1.3 The Project & Project Proponents (PP)	3
1.4 The Place.....	4
CHAPTER-2: METHODOLOGY	5
2.1 Study Area.....	5
2.2 Land use in the Study Area	12
2.3 Ecology of the study area.....	12
2.3.1 Type of Forests and Major Species.....	12
2.3.2 Habitats in the Study Area	12
2.3.3 Biodiversity.....	15
2.3.4 Floral composition of the study area.....	15
2.3.5 Village and urban Survey	16
CHAPTER-3: FINDINGS	17
3.1 Biodiversity Observed and Reported from the Study Area	17
3.2 Faunal Species of the Study Area.....	17
3.3 Fish Diversity in the Study Area	17
3.4 Supportive Habitats in the Study Area.....	17
3.5 Schedule - I Species for Which WCP is to be made.....	18
3.6 Brief Description of the Schedule-I Species	19
3.6.1 Common Name: Small Asian mongoose Scientific Name: <i>Herpestes auropunctatus</i>	19
3.6.2 Common Name: Shikra Scientific Name: <i>Accipiter badius</i>	20
3.6.3 Common Name: Indian Peafowl Scientific Name: <i>Pavo cristatus</i>	22
CHAPTER-4: CONSERVATION PLAN	24
4.1 On-site Measures under Conservation Plan.....	24
4.1.1 Environmental Management Plan (EMP).....	24
4.2 Objectives of an Action Plan for the Conservation of <i>Accipiter badius</i> , <i>Herpestes auropunctatus</i> , and <i>Pavo cristatus</i>	26
4.2.1 Habitat Management:	26
4.2.2 Mitigation of Human-Wildlife Conflict:	26
4.2.3 Conservation Education and Outreach:	26
4.2.4 Policy and Advocacy:	27
4.2.5 Sustainable Development Practices:	27
4.3 Off site Measures under Conservation Plan	27

4.3.1	Funding to Forest Department	27
4.3.2	Environmental Workshops & Awareness Campaigns.....	27
4.3.3	Reporting Injured Animals to DCF Office	27
4.3.4	Provision & Development of Waterholes.....	27
4.3.5	Placement of Funds	28
4.3.6	Wildlife Census.....	28
CHAPTER-5 : BUDGET ALLOCATION & IMPLEMENTATION SCHEDULE		29
5.1	Budget Allocation.....	29

LIST OF TABLES

Table 1.1: Salient Features of the Project	3
Table 2.1: Environmental Sensitive Locations in the Study Area	9
Table 2.2: Supervised Classification of Land use pattern in the study area	12
Table 2.3: Number of Floral species in Different Categories of the Study Area.....	15
Table 2.4: Urban area and Villages visited for Ecology & Biodiversity and Socio-economic Survey...	16
Table 3.1: Fishes found in the study area.....	17
Table 3.2: List of Schedule I species as per the Wild Life (Protection) Amendment Act, 2022	18
Table 5.1: Budget for Proposed Conservation Activities.....	29

LIST OF FIGURES

Figure 2.1: Google Earth image showing project site and surrounding within 10km for Waste to Energy Plant, Bawana.....	5
Figure 2.2: Topographic Map Study Area within 10km for Waste to Energy Plant, Bawana	7
Figure 2.3: Environmental Sensitivity Map Study Area within 10km from Waste to Energy Plant, Bawana.....	8
Figure 2.4 Sampling Locations for Terrestrial and Aquatic Sampling in the Study Area.....	10
Figure 2.5: Land Use Classification Map of Project Site & Study Area based on Satellite imagery around 10 km Study Area for Waste to Energy Project, Bawana	11
Figure 2.6: Habitat- 1 - Agriculture field with trees	13
Figure 2.7: Vegetation near village Ghoga	13
Figure 2.8: Vegetation near village Sultanpur	14
Figure 2.9: Western Yamuna Canal.....	14
Figure 2.10: Village Pond	14
Figure 2.11: Village fisheries Pond	15
Figure 2.12: Pie diagram showing % distribution of floral species	16
Figure 3.1: Representative Biodiversity of study area	18

List of Annexures
Annexure - I: List of Flora recorded in the Study Area
Annexure - II : List of Fauna recorded in the Study Area
Annexure -III: Project site and 10Km radius study area on 1:50000 scale Toposheet
Annexure IV: CD containing kml file of study area

CHAPTER-1 : INTRODUCTION

1.1 PREAMBLE

The Wildlife (Protection) Amendment Act, 2022 is an Act of the Parliament of India promulgated for protection of plants and animal species. Earlier, the Wildlife (Protection) Act 1972 in force before December 2022 which was one of the most successful environmental legislations in world history. Now the Wildlife (Protection) Amendment Act 2022 has been enacted by the Parliament. The Wildlife (Protection) Amendment Act 2022 has the following objectives among others:

- Prohibition of hunting of wild animals.
- Protection and management of wildlife areas and the animals, birds and plants in these areas.
- Establishing new protected areas such as National Parks and Wildlife Sanctuaries.
- Control of illegal wildlife trade

1) Changes in the preamble

Instead of words "protection of wild animals, birds and plants", the words "conservation, protection and management of wildlife" were substituted in the preamble.

2) Reduction in number of schedules

The Bill reduces the number of schedules from six to four.

Schedule I Animal species that will enjoy the highest level of protection including those which are critically endangered.

Schedule II Animal species that will be subject to a lesser degree of protection

Schedule III Protected Plant species

Schedule IV Specimens listed in the Appendices under CITES (scheduled specimens)

3) Implementation of CITES

Addition of Chapter VB provides regulation of international wildlife trade as per provisions laid by CITES. The Central Government shall form a Managing Authority and a Scientific Authority to regulate import export of specimens of species.

4) Criteria to declare animals "Vermin "

The Principal Act (Under Schedule V) and the amendment both use the term 'Vermin' to describe species which can be hunted under certain conditions, to keep their numbers in check. eg Mice, rats, crows.

5) Permission to carry out subsistence fishing in and around Protected Areas

Under Section 29 and 33, The Bill allows low intensity, small-scale fishing in rivers and other water bodies in and around protected areas. This lifts the blanket ban which prohibits all types of fishing activity in and around Protected Areas, which had caused many people to lose their livelihood.

6) Invasive species

The amendment to Section 62A of the principal Act recognizes the threat to ecosystems from invasive alien species and also provides for the establishment of a Scientific Authority (as per CITES) to advise on matters

related to trade of such species. It also grants power to the Central Government to regulate or prohibit import, trade, possession or proliferation of such species.

It has been 50 years ever since the Wildlife Protection Act came into existence, signifying an end to rampant poaching, decimating illegal wildlife trade and providing protection to abundant wildlife of the country. The 2022 Amendment Bill tries to upgrade the Act by introducing newer strategies, better management plans and science based conservation. However it falls short to address the new age conservation challenges.

As per the Environmental Impact Assessment (EIA) Notification No. S. O. 1533 (E) dated 14.09.2006 and amendments therein to issue by the Ministry of Environment, Forest and Climate Change (MoEFCC); New Delhi and according to the Standards Terms of Reference (TORs) issued by MoEFCC, New Delhi for preparation of EIA Reports for projects/ activities requiring environmental clearance, it is mandatory to prepare and submit "Wildlife Conservation Plan (WCP)" for conservation of Schedule I fauna, if exist in the study area (10 Km radius distance from an industrial project site).

1.2 BACKGROUND

Environmental Impact Assessment (EIA) is the process of evaluating likely environmental impacts, both positive and negative, of a new or expansion project by taking into account natural, social and economic aspects. It also comprises of suggesting possible mitigation measures, for the negative impacts, before implementation of the project. The main objectives of an EIA report are-

- To describe a pre-project baseline condition with respect to Environmental Indicators.
- To identify possible sources of pollution and their environmental impacts including identifying risks associated with setting up of a new / expansion project and suggesting appropriate mitigation measures for alleviating adverse impacts to the extent possible.
- To suggest environmental / risk management plans for implementing the mitigation measures.

For imposing certain restrictions and prohibitions on new projects or activities or on expansion/modernization of existing projects/ activities based on their potential Environment Impacts as indicated in the schedule to the notification published by Ministry of Environment, Forest and Climate Change (MoEFCC); New Delhi vide notification SO-1533(E) dated 14th Sept. 2006 require prior Environmental Clearance (EC) before starting activity on site. Here, the environmental impact assessment studies carried out and report prepared is duly assessed by the State/ Center authority for grant of EC for project.

The proposed waste-to-energy (WtE) project of **Jindal Urban Waste Management (Bawana) Limited** is an initiative of the Municipal Corporation of Delhi (MCD) for handling the issue of MSW in a more scientific way. It will handle approximately 3000 tons per day (TPD) of MSW by converting it into 30 megawatts (MW) of power. The site is in DSIIDC Industrial Area, Sector-5, Bawana, Delhi. The land is in possession of MCD.

The proposed project site is located in urban industrial area where the natural habitat for presence of wildlife is very limited. However, three Schedule-I species namely *Accipiter badius*, *Pavo cristatus* and *Herpestes auropunctatus* have been reported in the study area.

The preparation of Wildlife Conservation Plan in 10 km radius of area from the plant boundary area is an effort towards fulfilling the commitment and goal of Jindal Urban Waste Management (Bawana) Limited to protect the wildlife endowment of the area and thereby improving the biodiversity as a whole.

1.3 THE PROJECT & PROJECT PROPONENTS (PP)

Jindal Urban Infrastructure Limited (JUIL) has formed SPV - JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED to develop Waste to Energy project at Bawana (30 MW) project with a view to reduce the problem associated with disposal of solid waste at landfill, thereby complying with the various regulations as well as the objective and goal set for the Country under the Swachh Bharat Mission (SBM).

Realizing these requirements, the proposed Municipal Solid Waste (MSW) to Energy generating project is one of the most efficient and environmental friendly solution for tackling the municipal solid waste problem of Delhi. For this purpose, the Authority has selected Jindal Urban Infrastructure Limited (JUIL) through competitive bidding process for development, operation, and maintenance of Waste to Energy (WtE) processing facility of 300 TPD, as per Solid Waste Management (SWM) Rules 2016, at Narela-Bawana, Delhi through Public-Private Partnership (PPP) on Design, Build, Finance, Operate and Transfer basis. MCD has earmarked 15 acres land out of land parcel of approximately 35 acres for setting up the WtE facility at Bawana, Delhi.

According to a stipulation in the overall context of Environmental Impact Assessment (EIA) Notification No. S. O. 1533 (E) dated 14.09.2006 and amendments thereto issued by the Ministry of Environment, Forest and Climate Change (MoEFCC); New Delhi, the Project Proponent is required to prepare WCP and submit same to competent authority for its approval as per requirement of ToR granted by the MOEF&CC dated 10.01.2024. As per 2006 notification, this Waste to Energy Project comes under Category A, Schedule No. 1(d) Thermal Power Plants and Sector Thermal Projects. Wildlife Conservation Plan has been prepared by incorporating required information with regards to the project as mentioned in the standard Terms of Reference (ToRs) issued to Proposed Project. A brief of Salient features of the project is given below in the Table 1.

Table 1.1: Salient Features of the Project

S. No.	Information	Details
1	Project name and Location	Proposed Waste to Energy Project 30 MW at DSIIDC Industrial Area, Sector-5, Bawana, Delhi. Co-ordinates: 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
2	Name of project Proponent	M/s Jindal Urban Waste Management (Bawana) Limited.
3	Capacity	30 MW
4	General Conditions	Delhi-Haryana State boundary is located at the distance of 4.34 Km in NNW direction.
5	Site Location	
	Village	Bawana
	District	North-West Delhi
	State	Delhi

6	Land Requirement	15 Acres
7	Fuel (MSW)	3000 TPD of MSW
8	Water Requirement	- During Construction phase-50 KLD Industrial water will be met from Pragati Power Corporation Limited (PPCL)/Treated Sewage from Delhi Jal Board. - During operation phase- 625 KLD Industrial water will be met from Pragati Power Corporation Limited (PPCL)/Treated Sewage from Delhi Jal Board. - Domestic water: Approx. 10KLD Drinking water will be required during construction and 5 KLD Drinking water during operation phase will be required. This water will be supplied by DJB.
9	Construction Power Supply and its Source	The nearest construction power source is Tata Power Delhi Distribution Limited (TPDDL). No DG set will be used during construction phase. The 750 KVA DG set will be used during operation phase only in case of grid failure.
10	Employment opportunity	Employment potential: During the construction phase Employment (Contract): 570 Nos On Roll: 60 Nos Total (On Roll + Contract): 630 Nos. During the operational phase Contract: 156 Nos On Roll: 86 Nos Total (On Roll + Contract): 242 Nos.
11	Nearest Railway Station	Narela Railway Station ~6.06 Km in NE direction
12	Nearest State Highway/ National Highway	NH-44 ~ 7.33 Km in East direction SH-18 ~ 4.64 Km in East direction UER-II ~ 1.39 Km in SE direction
13	Nearest Airport	Indira Gandhi Airport, ~ 26.81 Km in South direction.
14	Project Cost	Estimated Cost of the Project Rs. 660.00 Crore.

1.4 THE PLACE

The establishment shall be carried out at DSIIDC Industrial Area, sector-5, Bawana, Delhi-110039 by M/s Jindal Urban Waste Management, located in NORTH WEST, DELHI. The total land requirement of the project is 15 acres. While making selection of site for activities of JITPL (Jindal India Thermal Power Limited), certain aspects were taken in to consideration prominently. The same were namely -

1. Convenient place in DSIIDC Industrial Area, located in North West Delhi.
2. Availability of all basic facilities like water, electricity, man power etc.
3. Narela Railway Station ~6.06 Km in NE and NH-44 ~ 7.33 Km in East direction and SH-18 ~ 4.64 Km in East direction so that transportation of raw material will be easier and economical.
4. Availability of good communication facilities.
5. No rehabilitation and resettlement required as the site is located in notified industrial area.

CHAPTER-2 : METHODOLOGY

2.1 STUDY AREA

The primary survey for was conducted to assess the nature of the existing habitat and species composition in the study area. The study was carried out in 10 km radius of the project site for assessing the general vegetation patterns and various landscapes. A few sampling locations were also marked in google earth image for terrestrial and aquatic ecology and detailed study was conducted at these locations which are given in **Figure 2.4**. The floral species were identified with the help of plant taxonomy manual, published literatures, reports and websites (BSI and State/District Forest Departments etc.). In addition, information was also collected with vernacular names of plant species from local inhabitants. The Project site and study area is shown in **Figure 2.1** in Google Earth Image. **Figure 2.2** and **Figure 2.3** depict Topographic Map and Environmental Sensitivity Map respectively of the study area.

Different sampling techniques were employed for documenting different faunal groups. For herpeto-fauna (Amphibians and Reptiles), visual encounter survey; for avifauna, point count and transect methods and for mammals, direct and indirect sightings (signs like tracks, pellets and pugmarks) were adopted.

The water bodies in the area were also assessed for the status of the aquatic ecology. Main water bodies are Western Yamuna Canal and village ponds and fisheries ponds.

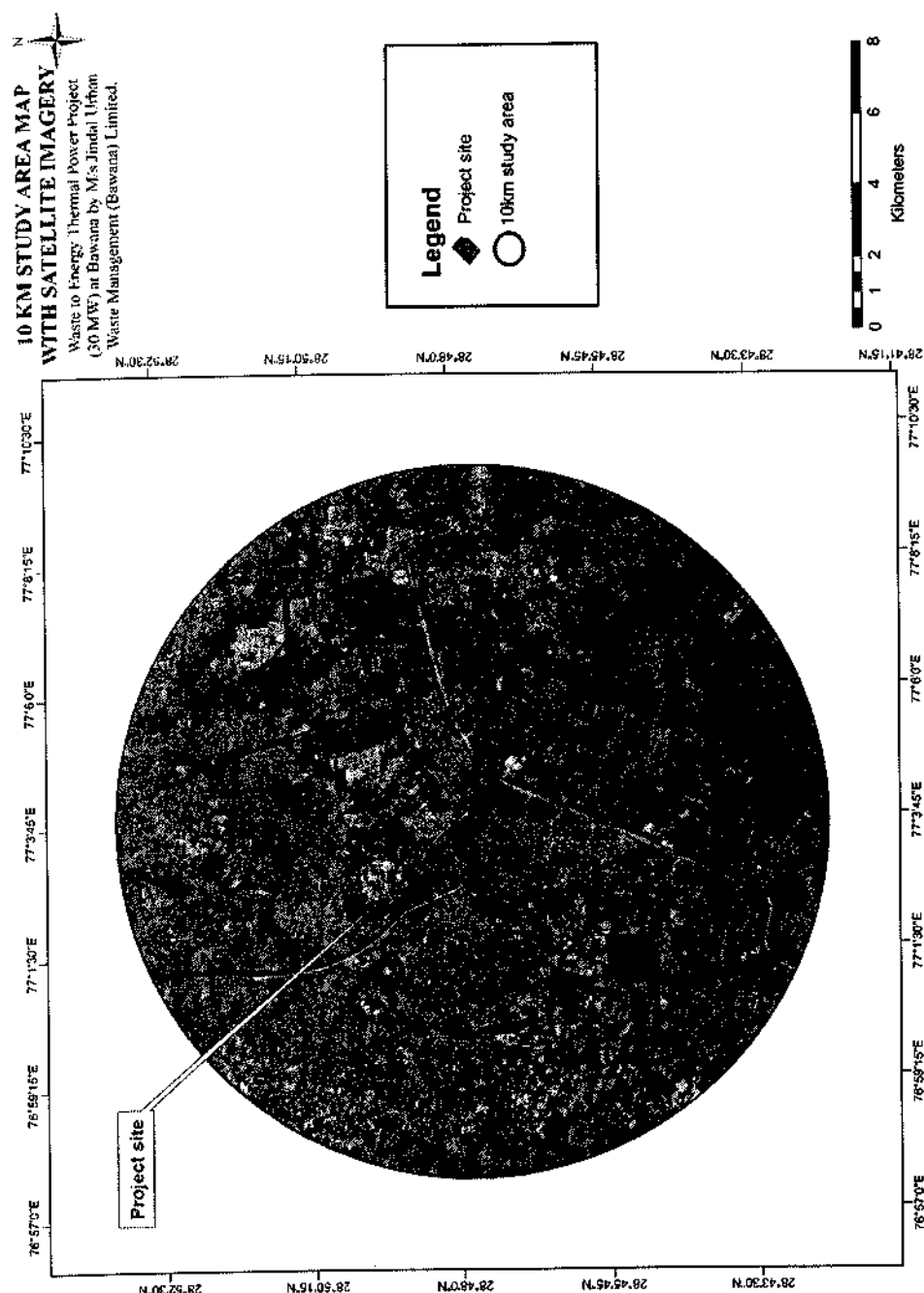


Figure 2.1: Google Earth image showing project site and surrounding within 10km for Waste to Energy Plant, Bawana.

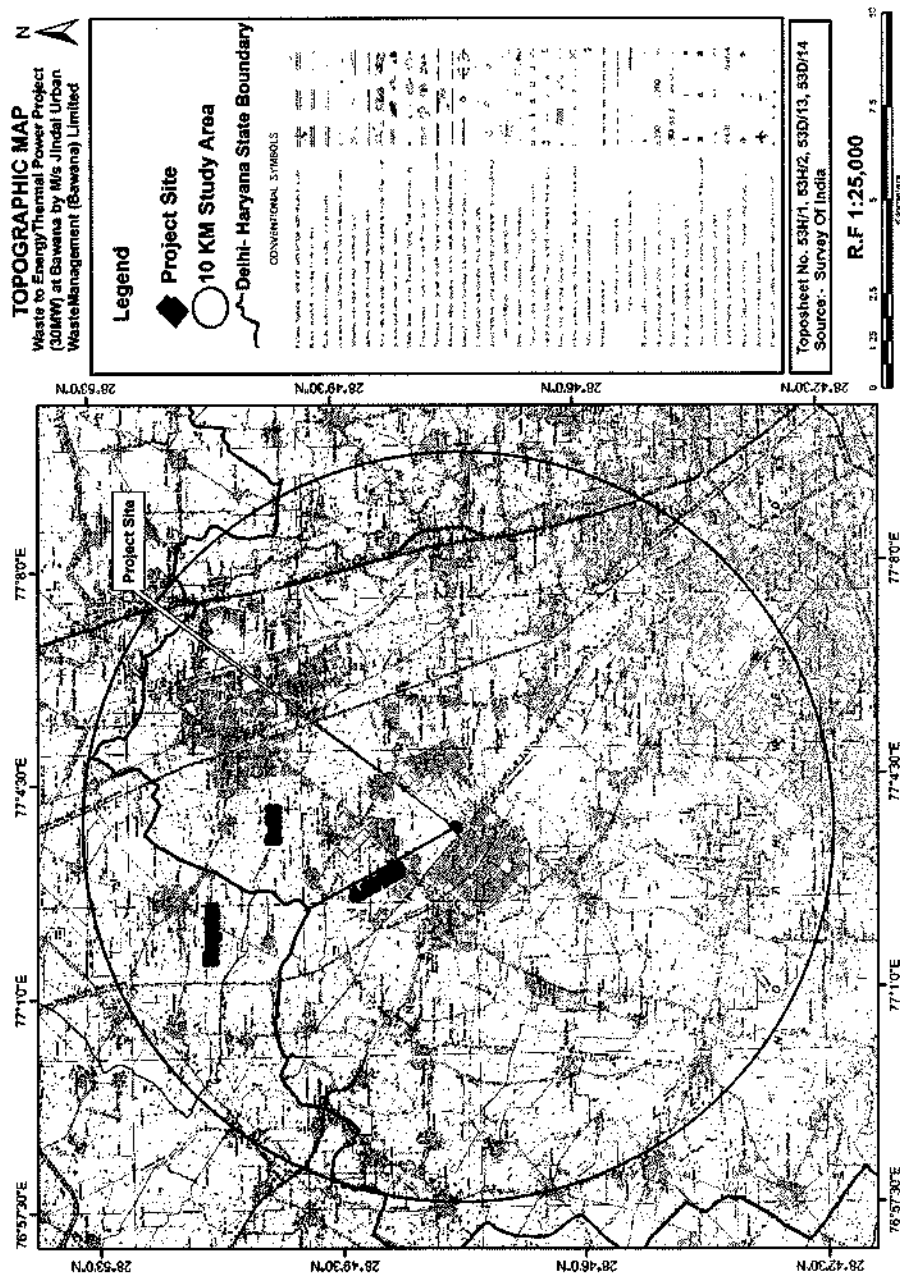


Figure 2.2: Topographic Map Study Area within 10km for Waste to Energy Plant, Bawana

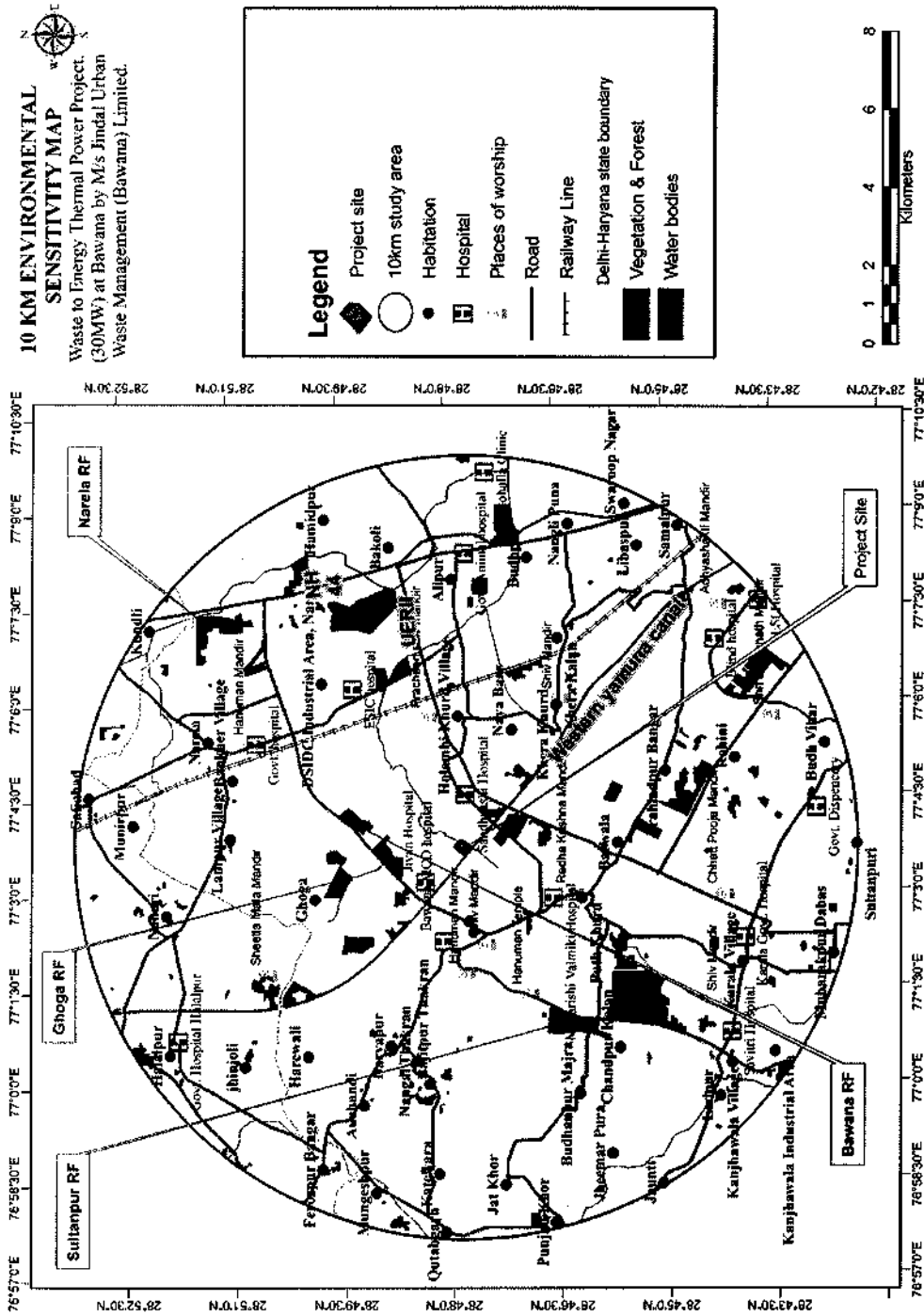


Figure 2.3: Environmental Sensitivity Map Study Area within 10km from Waste to Energy Plant, Bawana

Environmental Sensitive locations in the study area are presented in Table 2.1 below.

Table 2.1: Environmental Sensitive Locations in the Study Area

PARTICULARS	DETAILS
Water Bodies	Western Yamuna Canal is located at approx. 32 meters from the project site in South West direction
National Park, Wildlife Sanctuary, Biosphere Reserve, Reserve/ Protected Forest etc. within 10 Km radius	❖ Ghoga RF: 3.12 Km in North direction ❖ Bawana RF: 1.70 km in North direction. ❖ Sultanpur RF: 4.29 km in SW direction ❖ Narela RF: 9.01km in NE direction. ❖ There is no National Park, Wildlife Sanctuary etc. within 10 km radius.
Areas occupied by sensitive manmade land uses (hospitals, schools, places of worship, community facilities)	❖ Sandhyashi Hospital is located at a distance of 1.26 Km in East direction ❖ Jivan Hospital is located at a distance of 1.32 Km in NW direction ❖ Bawana MCD Hospital is located at a distance of 2.46 Km in WNW direction ❖ Siddhartha Hospital is located at a distance of 2.1 Km in W direction ❖ St. Omina Public School is located at a distance of 1.26 Km in East direction. ❖ Rana Public School is located at a distance of 7.35 Km in SE direction.

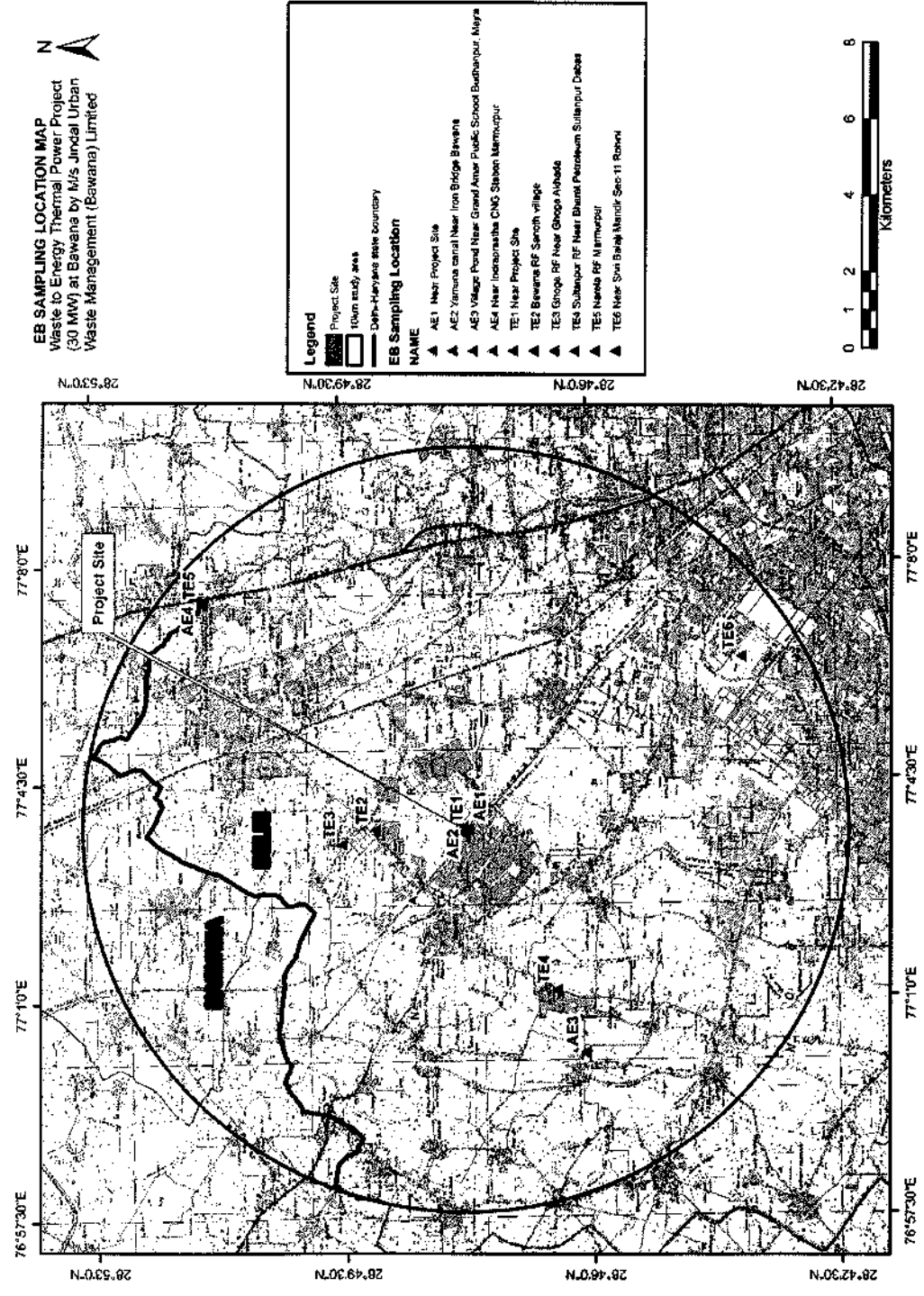


Figure 2.4 Sampling Locations for Terrestrial and Aquatic Sampling in the Study Area

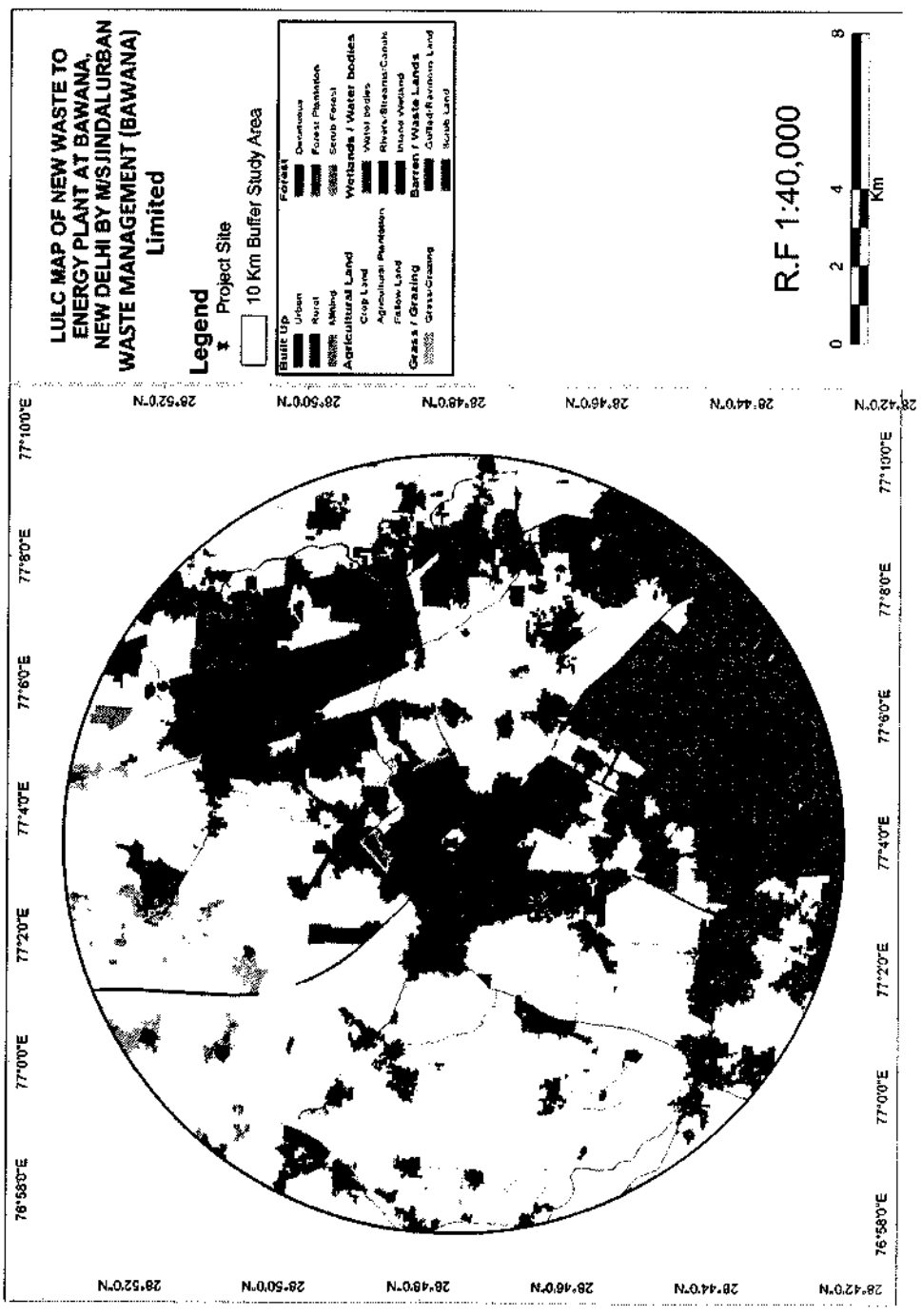


Figure 2.5: Land Use Classification Map of Project Site & Study Area based on Satellite imagery around 10 km Study Area for Waste to Energy Project, Bawana

2.2 LAND USE IN THE STUDY AREA

The Land use pattern based on satellite imagery are shown in Figure 2.5 and Table 2.2..

Table 2.2: Supervised Classification of Land use pattern in the study area

S. No.	Class Name	Area in Hectares	Percentage
1	Agricultural Area	16977.593	53.208
2	Built-up	13375.821	41.92
3	Natural Vegetation	293.553	0.92
4	Water Body	220.803	0.692
5	Barren Land	1040.200	3.26
Total		31907.97	100

As per Land use classification agricultures and Built-up area are prominent. Natural vegetation and water bodies are represented by 0.92% and 0.692 % of the total study area.

2.3 ECOLOGY OF THE STUDY AREA

For Ecological study, toposheet Nos. 53H/1, 53H/2, 53D/13 and 53d/14 (2005-06) and USGS satellite imagery and LULC maps based on them were used. Similarly relevant data from District Census (2011) district forest report and relevant literature was referred. For familiarization of the study area, a preliminary survey was conducted in the study area to identify study sites. At time of field visits ground truthing was included water-body near project site was identified as Western Yamuna Canal, and village ponds. The distant habitats were visited by vehicle and on foot. The main survey was conducted from early morning till evening on five days in pre-monsoon months in the year 2023.

2.3.1 Type of Forests and Major Species

Vegetation of Study area is typical Northern Tropical Thorn Forest Type (Champion & Seth 1968). Among trees such as *Acacia nilotica*, *Acacia leucophloea*, *Zizyphus Mauritiana*, *Prosopis juliflora* which represent Thorny vegetation. Roadside plantation and trees in agricultural fields are represented by *Cassia siamea*, *Melia azedarach*, *Azadirachta indica*, *Eucalyptus sp.*, *Dalbergia sissoo*, *Moringa oleifera*, *Alstonia scholaris*, *Dalbergia sisso*, *Ficus benghalensis*, *Ficus religiosa* etc.

2.3.2 Habitats in the Study Area

The following Habitats were identified in the study area

1. Agricultural fields with Plantation
2. Scrub and Thorny vegetation
3. Trees Outside Forests (TOF)
4. Reserve Forests
5. Water Bodies

To augment the vegetation in the study area reforestation or replanting of trees on recently deforested land has been done it would help forests to adapt to climate change by decreasing human pressures and enhancing Ecosystem productivity. It will also contribute to preserving biodiversity hotspots, avoiding soil

degradation and protecting other natural resources of a deforested area. It also involves planting trees for economical as well as ecological reasons.



Figure 2.6: Habitat- 1 - Agriculture field with trees



Figure 2.7: Vegetation near village Ghoga



Figure 2.8: Vegetation near village Sultanpur



Figure 2.9: Western Yamuna Canal



Figure 2.10: Village Pond



Figure 2.11: Village fisheries Pond

2.3.3 Biodiversity

Field study in Biodiversity involved random method for vegetation and opportunistic sighting for fauna (Larsen and Viana, 2016). Flora was studied for identification and species dominance at level of major tree species, shrubs and herbs level. Important Value Index (IVI) and Shannon-Weiner Index were calculated for Trees, Shrubs and Herbs in the study area. Shannon-Wiener Indices (H) were calculated for trees (H) 1.65, Shrubs (H) 1.42 and Herbs (H) 1.74.

2.3.4 Floral composition of the study area

The % distribution of total floral species found in study area as per their life forms in different categories is shown in Table 2.3 and Figure 2.12

Table 2.3: Number of Floral species in Different Categories of the Study Area

S.No	Plant Life Form	Number of Species in the study area
1.	Trees	34
2.	Shrubs	7
3.	Herbs	9
4.	Grasses	7
5.	Climbers	4

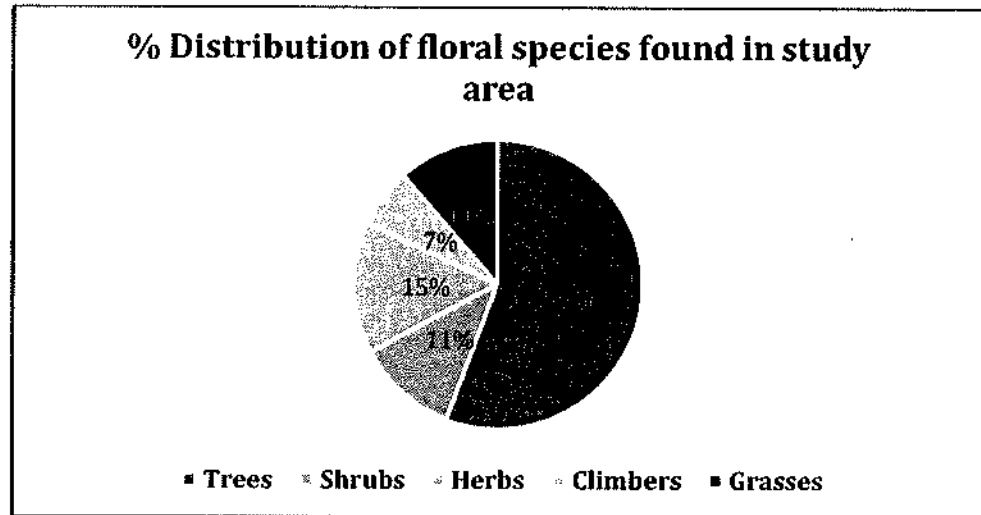


Figure 2.12: Pie diagram showing % distribution of floral species

2.3.5 Village and urban Survey

The study area habitations are spread over the sub districts Narela and Saraswati Vihar of North West district, National Capital Territory (NCT) of Delhi and sub districts Sonipat and Kharkhoda of Sonipat district in Haryana State. The population and amenities of Delhi has been taken according to the percentage of the area falling in the study area. There are 82 identified habitations in the study area out of which there are 53 villages and 29 urban areas/Census Towns. There are two uninhabited villages in the study area. The number of habitations falling in National Capital Territory (NCT) of Delhi is 62 whereas, 20 habitations are from Haryana State of the study area. The following villages and urban areas in the study area were also surveyed for collecting information on flora and fauna and Socio-economic milieu which are given in the Table 2.4.

Table 2.4: Urban area and Villages visited for Ecology & Biodiversity and Socio-economic Survey

Sr. No.	Village Name	EB Survey	Socio-economic Survey
1	JJ Colony, Bawana		*
2	Ghoga Village	*	*
3	Khera Kalan (CT)		*
4	Sanoth village	*	*
4	Khera Khurd (CT)		*
5	Budhan Pur Village	*	*
6	Holambi Khurd Village		*
7	Salah Pur Majra Village		*
8	Chand Pur Village	*	*
9	Rohini Sector 11	*	*
10	Mamoor Pur Village	*	*
*Village where Survey has been done			

CHAPTER-3: FINDINGS

3.1 BIODIVERSITY OBSERVED AND REPORTED FROM THE STUDY AREA

The water-bodies in villages Budhanpur Majra, Western Yamuna Canal near project site and fisheries pond were visited in the study area to observe their biodiversity with respect to water birds and fishes. Other Terrestrial habitats were also surveyed with respect to collect information on biodiversity.

3.2 FAUNAL SPECIES OF THE STUDY AREA

In the study area Mammals, Avifauna, Amphibians, Reptilians and Butterflies were reported on the basis of primary survey, discussion with local people and through available secondary resources such as publication, literatures etc. Mammals (5), Birds (33), Reptilians(3) and butterflies (3) were recorded from the study area. As per WPA 2022 among mammals *Herpestes auropunctatus* (Indian Small Mongoose) falls in Schedule -I category, among birds *accipiter badius* (Shikra) and *Pavo cristatus* (Indian Pea Fowl) are in Schedule -I.

Wildlife habitat loss is reported due to deforestation, wildfires, poaching and now rapid increase in the impact of industrialization, urbanization, associated infrastructure development and diverse type of pollutions are attributed to biodiversity loss in the study area.

3.3 FISH DIVERSITY IN THE STUDY AREA

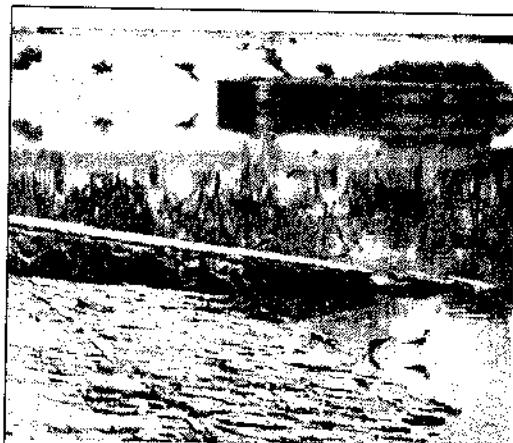
To obtain data on the most prominent fish species present in the water bodies and streams, the study was inventoried and locals were interviewed and secondary literature was reviewed to compile a list of fishes found in the study area and the results are shown in Table 3.1.

Table 3.1: Fishes found in the study area

S. No.	Common Name	Scientific Name	Family
1.	Cotio	<i>Osteobrama cotio</i>	Cyprinidae
2.	Gangetic Mystus	<i>Mystus cavasius</i>	Bagridae
3.	Mrigal	<i>Cirrhinus mrigala</i>	Cyprinidae
4.	Pool Barb	<i>Puntius sophore</i>	Cyprinidae
5.	Ticto Barb	<i>Pethia ticto</i>	Cyprinidae
6.	Rohu	<i>Labeo rohita</i>	Cyprinidae

3.4 SUPPORTIVE HABITATS IN THE STUDY AREA

Most of the study area is agricultural land or built up area. Natural vegetation water bodies covers a small part of the study area. Barren land is also there which could be utilized for afforestation/re-forestation. These areas also represent mixed open scrubs habitats. Thus the study area is a mosaic of reserve forest, roadside plantation with forests and scrub, agricultural land, urban areas and a few water bodies. Representative Biodiversity of study area is given in Figure 3.1.



Water Birds



Indian Pea Fowl



Rhesus Macaque



Cattle egret in

waterhyacinth invaded waterbodie

Figure 3.1: Representative Biodiversity of study area

3.5 SCHEDULE - I SPECIES FOR WHICH WCP IS TO BE MADE

On the basis of consultation with Forest Department and field survey, 3 faunal species are reported in the project study area which are listed as Schedule-I in the Wild Life Protection (Amendment) Act, 2022. These species comprises of one mammal and two avian which are enlisted Table 3.2 The detail action plan for these species is discussed in the following sections.

Table 3.2: List of Schedule I species as per the Wild Life (Protection) Amendment Act, 2022

Sr. No.	Class	Scientific Name	Common Name	Family	IUCN Status/WPA
1	Mammalia	<i>Herpestes auropunctatus</i>	Small Indian Mongoose	Herpestidae	LC/I
2	Aves	<i>Accipiter badius</i>	Shikra	Accipitridae	LC/I
3	Aves	<i>Pavo cristatus</i>	Indian Peafowl	Phasianidae	LC/I

3.6 BRIEF DESCRIPTION OF THE SCHEDULE-I SPECIES

- 3.6.1 Common Name: **Small Asian mongoose**
Scientific Name: ***Herpestes auropunctatus***

Taxonomic Classification:

- Kingdom: Animalia
- Phylum: Chordata
- Class: Mammalia
- Order: Carnivora
- Family: Herpestidae
- Genus: Herpestes
- Species: *Herpestes auropunctatus*



Physical Description:

- Size: Small to medium-sized.
- Length: Typically measures between 36 to 45 cm (14 to 18 inches) in length
- Weight: Weighs between 0.5 to 1.0 kg (1.1 to 2.2 pounds).
- Body Shape: Slender body with short legs and a long tail.
- Fur: Dense fur that ranges from brownish-gray to reddish-brown, with lighter underparts.
- Eyes: Small, dark eyes and a pointed muzzle.

Distribution:

- Geographical Range: Native to South Asia and Southeast Asia, including India, Sri Lanka, and extending to Southeast Asian countries.
- Introduced Range: Has been introduced to many islands in the Pacific and Caribbean regions, as well as parts of Africa, Europe, and the Americas.

Habitat and Behavior:

- Habitat: Prefers a variety of habitats including forests, grasslands, agricultural areas, and urban environments.
- Behavior: Diurnal and highly adaptable omnivores, feeding on insects, small mammals, birds, eggs, fruits, and other vegetation.

Reproductive Ecology:

- Breeding Season: Breeds year-round in favorable conditions.
- Gestation: Gestation period lasts approximately 49 to 54 days.
- Litter Size: Typically gives birth to 2 to 5 offspring.
- Maturation: Offspring become independent around 6 to 12 months of age.

Conservation Status:

- IUCN Red List: Listed as Least Concern due to its widespread distribution and adaptability.
- Population Trend: Populations are generally stable in their native and introduced ranges.

Population Threats:

- Impact on Native Fauna: Predation on native birds, reptiles, and small mammals in introduced areas.
- Disease Transmission: Potential vector for diseases affecting native wildlife and livestock.
- Competition: Competes with native carnivores and omnivores for food resources.

Conservation Efforts:

- Control Measures: Implemented in some areas to manage populations where they threaten native biodiversity.
- Research: Studying the ecological impacts of mongoose introductions and their interactions with native species.
- Awareness: Educating local communities and stakeholders about the risks associated with invasive species.

References:

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- Vanak, A. T., & Gompper, M. E. (2009). Dietary niche separation between sympatric free-ranging domestic dogs and Indian foxes in central India. *Journal of Mammalogy*, 90(5), 1058-1065.
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3.6.2 Common Name: **Shikra**

Scientific Name: *Accipiter badius*

Taxonomic Classification:

- Kingdom: Animalia
- Phylum: Chordata
- Class: Aves
- Order: Accipitriformes
- Family: Accipitridae
- Genus: *Accipiter*
- Species: *Accipiter badius*



Physical Description:

- Size: Small to medium-sized bird of prey.
- Length: Measures between 26 to 30 cm (10 to 12 inches)
- Wingspan: Typically ranges from 55 to 67 cm (22 to 26 inches).
- Weight: Weighs between 100 to 200 grams (3.5 to 7 ounces).
- Plumage: Males have bluish-grey upperparts, white underparts with fine rufous barring. Females and juveniles have brownish upperparts with more pronounced barring on the underparts.
- Eyes: Adults have bright red or orange eyes, while juveniles have yellow eyes.
- Tail: Long and narrow tail with dark bands.

Distribution:

- **Geographical Range:** Widely distributed across Africa and Asia.
- **Indian Distribution:** Found throughout the Indian subcontinent, including the Himalayas up to approximately 2,500 meters. Commonly seen in forests, open woodlands, agricultural areas, and urban regions.

Habitat and Behavior:

- **Habitat:** Inhabits a variety of environments including deciduous forests, open woodlands, savannas, agricultural lands, and urban areas.
- **Behavior:** Agile and swift flyers, known for hunting birds and small mammals through quick surprise attacks. Solitary or found in pairs, territorial during the breeding season.
- **Diet:** Primarily feeds on small birds, rodents, insects, and reptiles. Uses stealth and speed to capture prey.

Breeding Ecology:

- **Nesting:** Breeds from March to June in India.
- **Nesting Sites:** Constructs nests in trees using twigs and leaves, often in forested areas or urban parks and gardens.
- **Breeding Behavior:** Both male and female participate in nest building. Female lays 3-5 eggs, with both parents involved in incubation and chick feeding.
- **Incubation Period:** Approximately 18-21 days.
- **Fledging:** Chicks fledge around 28-30 days after hatching, remaining dependent on parents for a few more weeks.

Conservation Status:

- **IUCN Red List:** Listed as Least Concern due to its stable population.
- **Population Threats:** Habitat loss through urbanization, deforestation, and agricultural expansion. Pesticide use reducing prey availability, human disturbance at nesting sites, and occasional hunting for the pet trade.
- **Conservation Efforts:** Protection of forests and natural habitats through reserves and protected areas, bird-friendly urban planning, enforcement of wildlife protection laws, and raising public awareness about raptor conservation.

References:

1. Rasmussen, P. C., & Anderton, J. C. (2005). *Birds of South Asia: The Ripley Guide*. Barcelona, Spain: Lynx Edicions.
2. Grimmett, R., Inskipp, C., & Inskipp, T. (2011). *Birds of the Indian Subcontinent*. London, UK: Christopher Helm.
3. BirdLife International. (2020). Species factsheet: *Accipiter badius*. Retrieved from <http://datazone.birdlife.org/species/factsheet/shikra-accipiter-badius>

3.6.3 Common Name: Indian Peafowl
Scientific Name: *Pavo cristatus*

Taxonomic Classification:

- Kingdom: Animalia
- Phylum: Chordata
- Class: Aves
- Order: Galliformes
- Family: Phasianidae
- Genus: Pavo
- Species: *Pavo cristatus*



Physical Description:

- Size: Large and colorful bird.
- Length: Males (peacocks) can reach up to 200 cm (79 inches) including their tail feathers, while females (peahens) are smaller, around 86 cm (34 inches).
- Weight: Males weigh between 4 to 6 kg (9 to 13 pounds), and females weigh between 2.75 to 4 kg (6 to 9 pounds).
- Plumage: Males are known for their iridescent blue-green plumage on the neck and breast, and a spectacular train of elongated upper-tail covert feathers adorned with colorful "eyes" or ocelli. Females are mostly brown and grey with a duller mottled appearance.
- Eyes: Brown eyes with a distinctive facial pattern of blue and white stripes.

Distribution:

- Geographical Range: Native to the Indian subcontinent, including India, Sri Lanka, Nepal, Bangladesh, and Pakistan. Introduced populations exist in various parts of the world, including the United States and Australia.

Habitat and Behavior:

- Habitat: Inhabits a variety of habitats including forests, open grasslands, and cultivated areas near water sources.
- Behavior: Diurnal and ground-dwelling, often seen foraging for seeds, insects, small mammals, and reptiles. Males display their ornate plumage during courtship displays to attract females.

Reproductive Ecology:

- Breeding Season: Breeds during the monsoon season, typically from April to September.
- Nesting: Nests are shallow depressions on the ground lined with leaves and sticks.
- Eggs: Females typically lay 4-6 eggs.
- Incubation: Eggs are incubated for about 28 days, primarily by the female.
- Fledging: Chicks fledge about 10 days after hatching, but remain with the mother for several weeks.

Conservation Status:

- IUCN Red List: Listed as Least Concern due to its large population and widespread distribution.
- Population Threats: Habitat loss and fragmentation due to agricultural expansion and human development. Illegal hunting and capture for the pet trade in some regions.

- Conservation Efforts: Protection of habitats through reserves and protected areas, monitoring of populations, and education about the species' cultural and ecological importance.

References:

1. BirdLife International. (2016). *Pavo cristatus*. The IUCN Red List of Threatened Species 2016: e.T22679494A92846913. Retrieved from <https://www.iucnredlist.org/species/22679494/92846913>
2. Ministry of Environment, Forest and Climate Change, Government of India. (2018). Action Plan for Conservation of Indian Peafowl (*Pavo cristatus*). New Delhi, India: Government of India Publication.
3. This document outlines specific conservation strategies, including habitat preservation, monitoring programs, and community involvement in conservation efforts.

CHAPTER-4 : CONSERVATION PLAN

The project is expected not to cause any impacts to the habitats of the study area or to the local species therein. Despite this, Jindal Urban Waste Management (Bawana) Limited will contribute to conservation of the biodiversity in study area. Various **on-site** and **off-site** measures are proposed for conservation of the **Schedule - I** species as well as other biodiversity and supportive habitats in the study area. No any land from any forest will be used for the proposed project. Also, to avoid contamination of habitats and impact on biodiversity due to the industrial activities, an Environment Management Plan (EMP) is prepared by JUWMBL which would be implemented this project. The same shall be monitored regularly by Regional Office of MoEFCC at Chandigarh. Besides this, few areas where JUWMBL can contribute towards biodiversity conservation are also presented here. The details of the **onsite** EMP measures, biodiversity and habitats conservation plans are given below.

4.1 ON-SITE MEASURES UNDER CONSERVATION PLAN

4.1.1 Environmental Management Plan (EMP)

With the knowledge of baseline conditions and impacts predicted, the monitoring program will serve as an indicator for any deterioration in environmental conditions due to operation of the project. This will enable in taking up suitable steps, in time, to safeguard the environment. Monitoring is an important tool for control of pollution since the efficiency of control measures can only be determined by monitoring.

In the project complex, monitoring of various environmental parameters will be carried out on a regular basis to ascertain the following:

1. State of pollution within the plant and in its vicinity;
2. Examine the efficiency of pollution control systems installed in the plant;
3. Generate data for predictive or corrective purpose in respect of pollution;
4. To assess environmental impacts

The environmental monitoring for the proposed project is important to assess the performance of pollution control equipment to be installed in the project complex. The sampling and analysis of environmental attributes including selecting the monitoring locations will be as per the guidelines of the CPCB / DPCC. Accordingly, environmental monitoring will be conducted on regular basis by the industry to assess the pollution levels in the plant as well in the surrounding area. Recycling and reuse of industrial waste not only reduces the waste generation but also can be an economic gain to the industry. The management of industry will take all the necessary steps to control and mitigate the environmental pollution in the designing stage itself. Moreover, while implementing the project, the management will follow guidelines issued by CPCB/DPCC. During operational stage, continuous air emissions from boilers, wastewater disposal, non-hazardous waste such as ash, chemicals used in processing, used oily wastes are expected. The attributes which merit regular monitoring based on the environmental setting and nature of project activities are listed below:

1. Source emissions and ambient air quality;
2. Ground water quality;
3. Water and wastewater quality (water quality, effluent & sewage quality etc.);
4. Solid and hazardous waste characterization.
5. Soil quality;
6. Noise levels (equipment and machinery noise levels, occupational exposures and ambient noise levels)

a. Air Pollution Management**Stack emission**

Stack emission pollution control devices, Flue gas cleaning system (FGCS) for particulate matter and gaseous pollutants will be installed. Details of FGCS are given in Chapter -2 of EIA report. Online stack monitoring devices will be installed and data will be displayed at the entry gate of the plant.

Odour control

- For odour control: Sprinkling of fragrance liquid through fogging nozzle.
- Sprinkling of Bio-inoculum which is a consortium of microorganisms called EM culture will be used for effective odour control.
- MSW storage pit will be kept under negative pressure and the suction air will be sent to the Boiler

b. Water Management

Water requirement during construction phase is 40 KLD which will be met through reject blow down water from the PPCL/Treated Sewage from DJB. Approx. 10 KLD of water will be required for drinking purpose which will be supplied by DJB.

During the operational phase, water demand of 625 KLD will be met from PPCL/Treated Sewage from DJB for Industrial use whereas domestic water of 5 KLD will be supplied by DJB. Approx. 360 KLD of wastewater including leachate and sewage will be generated which will be treated in the Effluent Treatment Plant (ETP).

Mitigation

- The Complete water system has been designed on Zero Liquid discharge concept and there will be no effluent discharge from premises.
- Effluents generated from DM plant and cooling system blow down etc. will be brought to neutralization pit. After neutralization, it will be used for FGCS cooling and service water for floor washing, sprinkling on road and other general purposes. The treated water from Leachate treatment plant will be recycled to DM Plant and rejects for quenching of bottom ash. Thus, no effluent is proposed to be discharged outside the premises.
- The leachate will be treated in leachate treatment plant based on conventional technology.

c. Noise Level Management

During operation phase, the main noise generating sources will be turbines, generators, boilers feed pumps, air compressor, cooling tower, etc.

Mitigation Measures

- The various machines will be designed to keep noise level at 85 dB at a distance of one meter.
- High noise generating machineries will be provided proper enclosure to attenuate noise level.
- Persons handling noisy equipment or working in noisy places will be provided with ear plugs and earmuffs.
- To achieve the far field noise, various noise generating equipment's will be fitted with

appropriate devices to control the noise levels e.g. steam vent pipes shall be fitted with silencers.

d. Solid Waste Management

During operational phase, approx. 121 Kg of MSW will be generated which will be handled properly and utilized in-house in the Waste to Energy project as fuel.

Approx 12 % of Ash will be generated as Solid Waste from the WtE Plant. The ash generated will be utilized for various purposes and the unutilized ash will be sent to secured landfills site designated by MCD.

e. Green Belt (GB) Development

As per the Terms of Reference (ToR) approved by the Ministry of Environment, Forest and Climate Change (MoEF&CC), the plan includes planting 2000 trees per hectare within both the project site and its surrounding in 10km area. A total of 4860 trees will be planted across the project site and its vicinity.

In addition, an extensive plantation will also be undertaken within the 10km study area, focusing on areas near water reservoirs, schools, hospitals, and other institutional locations including Nallah/Streams during implementation of the project. A detailed survey of these areas will be carried out to identify the quantum of land available for plantation. Suitable tree species will be selected in consultation with forest department for plantation in different identified locations. Accordingly, a detailed plan will be chalked out in consultation with concerned institutions for implementing the plantation program. Adequate fund will be allocated for implementing this additional plantation.

4.2 OBJECTIVES OF AN ACTION PLAN FOR THE CONSERVATION OF ACCIPITER BADIUS, HERPESTES AUROPUNCTATUS, AND PAVO CRISTATUS.

4.2.1 Habitat Management:

- **Mapping and Assessment:** Conduct detailed surveys to identify suitable habitats within the study areas for each species.
- **Habitat Enhancement:** Implement green infrastructure initiatives, such as planting native trees and creating artificial nesting sites for *Accipiter badius* and *Pavo cristatus*. Ensure adequate cover and food sources for *Herpestes auropunctatus* through habitat restoration.

4.2.2 Mitigation of Human-Wildlife Conflict:

- **Awareness Programs:** Educate industrial workers and local communities about the ecological importance of these species and methods to peacefully coexist.

4.2.3 Conservation Education and Outreach:

- **Public Engagement:** Organize workshops, seminars, and nature walks for employees and residents to promote appreciation and stewardship of local biodiversity.
- **School Programs:** Develop educational modules for schools in the area to raise awareness among students about the conservation needs of these species.

4.2.4 Policy and Advocacy:

- **Local Policy Support:** Advocate for the inclusion of wildlife-friendly policies and guidelines in industrial development plans to ensure habitat conservation and mitigation of negative impacts on wildlife.
- **Collaboration:** Forge partnerships with local authorities, NGOs, and businesses to leverage resources and support for conservation initiatives.

4.2.5 Sustainable Development Practices:

- **Green Infrastructure:** Encourage green building certifications and sustainable practices among industrial units to reduce environmental footprint and support wildlife habitat.
- **Water and Waste Management:** Implement measures to minimize pollution and ensure clean water sources for wildlife.

4.3 OFF SITE MEASURES UNDER CONSERVATION PLAN

This Conservation Plan is designed only for the Impact Area of ten km radius area around the JITPL Bawana for a total period of 5 years after which it would need be revised if required and on consent or initiative of the Forest Department.

4.3.1 Funding to Forest Department

The JITPL will discuss with forest department officials and get an understanding of the existing habitat improvement and wildlife management activities being conducted in the study area. In consultation with the forest department, JITPL will give monetary contribution to the forest department for existing habitat improvement and wildlife management activities.

4.3.2 Environmental Workshops & Awareness Campaigns

Environment workshops and awareness campaigns will be undertaken for JITPL employees and local urban and village schools regarding protected species in the area and their importance in environment as well as about their behavior, habitat, ecology, breeding/nesting seasons, threats to habitats and species, laws regarding protection of species etc.

External experts will also be engaged for coordinating the workshops and seminars. One external expert shall be engaged for coordinating the workshop. The main themes that the workshops would focus are -

- Forest habitat protection and improvement
- Wildlife laws and their implementation
- Protected species in the area, their distribution, habitat, threats and conservation measures
- Human animal conflicts and management measures especially about precautions to be taken to avoid and first aid and care to be taken in case of snake bites, venomous snake species in the area etc.

4.3.3 Reporting Injured Animals to DCF Office

In an event of information / observation of injured wild animal in the area, JITPL will inform the concerned wildlife department for its treatment and protection for which industry will extend financial assistance to department.

4.3.4 Provision & Development of Waterholes

Provision will be made for development of Waterholes and small ponds for wildlife for ensuring safe places of drinking water. As availability of safe places of drinking water is very important for the local wildlife. In

water bodies near villages would be obnoxious weeds like water hyacinth will be removed and domestic sewage entering into these water bodies will be checked. Finger lings of local fishes will be introduced in fisheries ponds near villages which will improve the livelihood of local villages will also help increase the population of environmental indicator species of water birds.

4.3.5 Placement of Funds

Funds estimated to be spent in the first 5 years shall be placed with the DCF North Delhi in advance who would then release it according to the expenditure plan as Annual Plan of Operation (APO). These funds would be retained in a separate account and would be designated 'Wildlife Conservation Plan, JITPL, Bawana'. It would be the responsibility of the DCF North Delhi, to ensure that the 'Wildlife Conservation Plan, JITPL Funds' are not utilised for any purposes other than those mentioned in this Wildlife Conservation Plan under any circumstances whatsoever.

4.3.6 Wildlife Census

The wildlife census (estimation) and recording for these areas would be made in prescribed formats by territorial staff about wildlife sighting and indirect evidence recording would be made. Since the security specifically appointed for this conservation plan would be trained in wildlife evidence recording they would need to fill the prescribed formats and send them to the concerned Range Officer.

The Impact of different prescriptions of this Wildlife Conservation Plan on the ecosystem in general and the species in particular would be recorded and should be sent to Chief Wildlife Warden of the State as well as to the MOEF & CC so that the State / MOEF & CC can formulate more specific guidelines for such project activities in the future.

CHAPTER-5 : BUDGET ALLOCATION & IMPLEMENTATION SCHEDULE

5.1 BUDGET ALLOCATION

Budget allocation for the activities proposed under this conservation plan is described here under. The cost towards activities under biodiversity and habitat conservation would be as follows:

Table 5.1: Budget for Proposed Conservation Activities

Sr. No.	Item	Year wise Allocation of Funds (Rs. In Lakhs)					
		Ist Year	IInd Year	IIrd Year	IVth Year	Vth Year	Total
1	Contribution towards Habitat improvement & mitigate measures (Food, Water, Shelter, Movement etc.) and measures to reduce/ minimize the human-animal conflicts	3	2	2	2	2	11
2	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation) for project personnel and community awareness. Distribution of Educational and awareness material.	3.5	3.5	3	3	3	16
3	Provision and development of Water bodies, their cleanliness and introduction of fingerlings water holes,	3	3	2	2	2	12
4	Support to Forest Department for monitoring, rescue & rehabilitation of wildlife (Veterinary care, animal health, rescue, tools and equipment's etc.)	2.5	2.5	2.5	2.5	2.5	12.5
5	Placing of Sinages, Solid waste Management and Anti-poaching measures	0.5	0.5	0.5	0.5	0.5	2.5
	Total	12.5	11.5	10	10	10	54

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Annexure - I: List of Flora recorded in the Study Area

S. No.	Scientific Name	Common Name	Family	IUCN Status
Trees				
1.	<i>Acacia leucophloea</i>	Ronjh	Mimosaceae	LC
2.	<i>Acacia nilotica</i>	Babul	Fabaceae	LC
3.	<i>Aegle marmelos</i>	Bel	Rutaceae	NT
4.	<i>Albizia lebbbeck</i>	Siris	Fabaceae	LC
5.	<i>Alstonia scholaris</i>	Saptparna	Apocynaceae	LC
6.	<i>Azadirachta indica</i>	Neem	Meliaceae	LC
7.	<i>Bauhinia variegata</i>	Kachnar	Fabaceae	LC
8.	<i>Bauhinia purpurea</i>	Butterfly Tree	Caesalpiniaceae	LC
9.	<i>Bombax ceiba</i>	Semal	Malvaceae	LC
10.	<i>Butea monosperma</i>	Palash	Fabaceae	LC
11.	<i>Cassia fistula</i>	Amaltash	Fabaceae	LC
12.	<i>Dalbergia sissoo</i>	Shisham	Fabaceae	LC
13.	<i>Eucalyptus sp.</i>	Safeda	Myrtaceae	LC
14.	<i>Ficus benghalensis</i>	Bargad	Moraceae	-
15.	<i>Ficus racemosa</i>	Gulahar	Moraceae	LC
16.	<i>Ficus religiosa</i>	Peepal	Moraceae	LC
17.	<i>Ficus virens</i>	White Fig	Moraceae	LC
18.	<i>Hardwickia binata</i>	Anjan	Fabaceae	LC
19.	<i>Holoptelea integrifolia</i>	Indian Elm	Ulmaceae	-
20.	<i>Madhuca longifolia</i>	Mahua	Sapotaceae	-
21.	<i>Mangifera indica</i>	Mango	Anacardiaceae	-
22.	<i>Melia azedarach</i>	Bakain	Miliaceae	LC
23.	<i>Moringa oleifera</i>	Sahajan	Moringaceae	LC
24.	<i>Morus alba</i>	Shahtoot	Magnoliopsida	LC

25.	<i>Phyllanthus emblica</i>	Amla	Phyllanthus	LC
26.	<i>Pithecellobium dulce</i>	Jungle Jalebi	Magnoliopsida	LC
27.	<i>Pongamia pinnata</i>	Pongam Oil Tree	Fabaceae	LC
28.	<i>Polyalthia longifolia</i>	False Ashok	Annonaceae	-
29.	<i>Prosopis cineraria</i>	Jhand	Mimosaceae	-
30.	<i>Prosopis juliflora</i>	Vilayati Kikar	Fabaceae	-
31.	<i>Senna siamea</i>	Kassod Tree	Fabaceae	LC
32.	<i>Syzigium cumini</i>	Jamun	Myrtaceae	LC
33.	<i>Tamarindus indica</i>	Imli	Fabaceae	LC
34.	<i>Terminalia arjuna</i>	Arjun	Combretaceae	-
Shrubs				
1.	<i>Abutilon indicum</i>	Indian mallow	Malvaceae	-
2.	<i>Calotropis procera</i>	Aak	Apocynaceae	LC
3.	<i>Cannabis sativa</i>	Bhangh	Cannabaceae	-
4.	<i>Datura innoxia</i>	Angle's Trumpet	Solanaceae	-
5.	<i>Lantana camara</i>	Lantana	Verbenaceae	-
6.	<i>Opuntia sp.</i>	Naghphani	Cactaceae	-
7.	<i>Ricinus communis</i>	Castor Bean	Euphorbiaceae	-
Herbs				
1.	<i>Achyranthes aspera</i>	Prickly Chaff Flower	Amaranthaceae	-
2.	<i>Aerva lanata</i>	Mountain Knotgrass	Amaranthaceae	-
3.	<i>Ageratum houstonianum</i>	Floss Flower	Asteraceae	-
4.	<i>Alysicarpus monilifer</i>	Necklace-Pod Alyce Clover	Fabaceae	-
5.	<i>Argemone mexicana</i>	Mexican Poppy	Papaveraceae	-
6.	<i>Boerhavia diffusa</i>	Red Spiderling	Nyctaginaceae	-
7.	<i>Commelina benghalensis</i>	Dayflower	Commelinaceae	LC
8.	<i>Euphorbia hirta</i>	Dove Milk	Euphorbiaceae	-

9.	<i>Chenopodium album</i>	Bathua	Amaranthaceae	
Climbers				
1.	<i>Convolvulus arvensis</i>	Morning Glory	Convolvulaceae	-
2.	<i>Cuscuta reflexa</i>	Amarbel	Convolvulaceae	LC
3.	<i>Ipomea aquatica</i>	Water Morning Glory	Convolvulaceae	-
4.	<i>Tinospora cordifolia</i>	Heart-leave Moonseed	Menispermaceae	-
Grasses				
1.	<i>Cenchrus ciliaris</i>	Buffel Grass	Poaceae	LC
2.	<i>Cenchrus setigerus</i>	Birdwood Grass	Poaceae	-
3.	<i>Chrysopogon fulvus</i>	Reddish-Yellow Beardgrass	Poaceae	-
4.	<i>Cynodon dactylon</i>	Bermuda Grass	Poaceae	-
5.	<i>Desmostachya bipinnata</i>	Daaabh	Poaceae	LC
6.	<i>Digitaria sp.</i>			
7.	<i>Saccharum sp.</i>	-	Poaceae	-
Abbreviations: LC= Least Concerned, VU= Vulnerable, NT= Near Threatened, EN= Endangered				
Source: Based on Primary Site visit and Secondary Data				

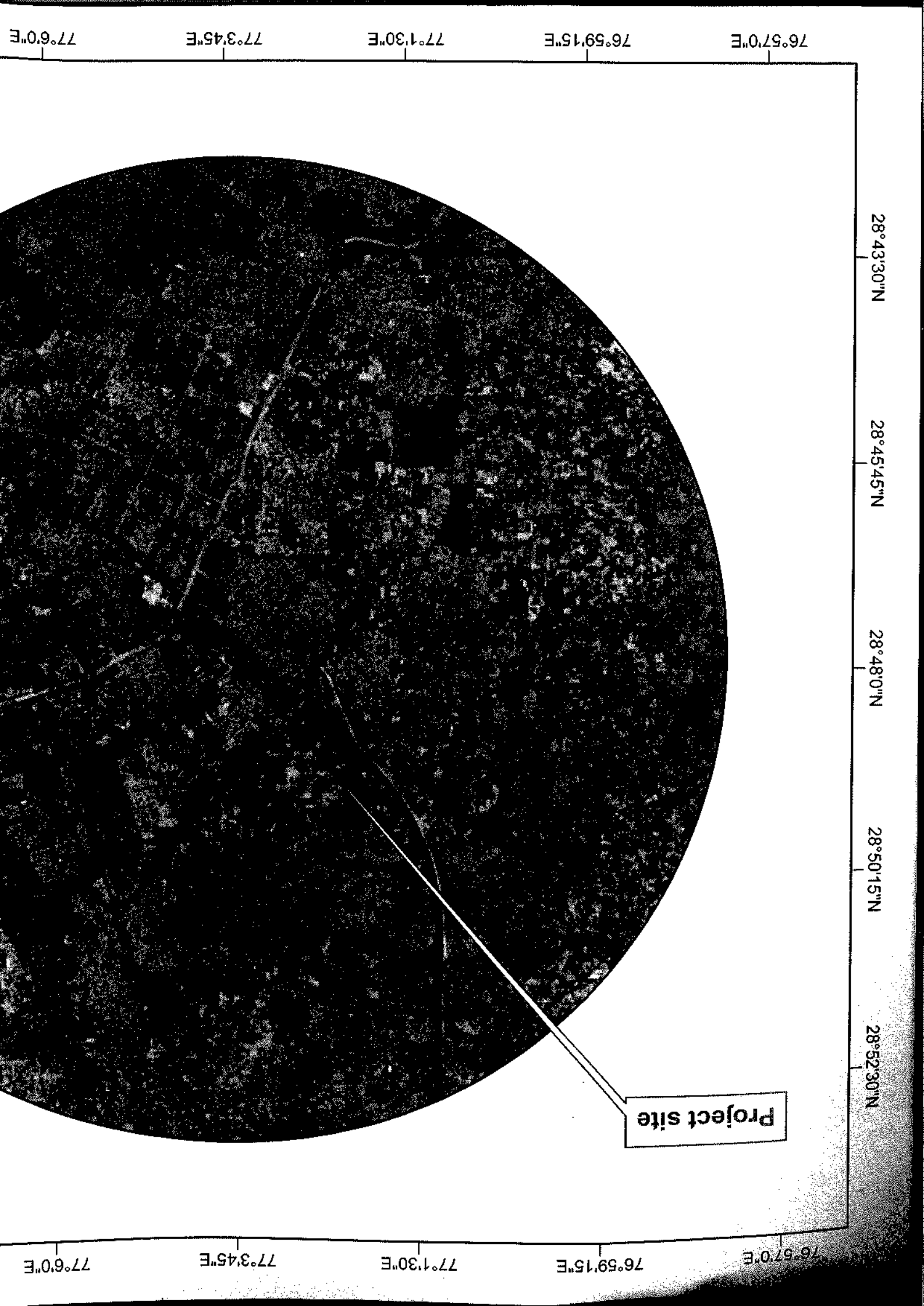
Annexure - II : List of Fauna recorded in the Study Area

S. No.	Scientific Name	Common Name	Family	IUCN/WPA Status
Mammals				
1.	<i>Funambulus pennanti</i>	Northern Palm Squirrel	Sciuridae	LC/-
2.	<i>Herpestes auropunctatus</i>	Small Indian Moongoose	Herpestidae	LC/I
3.	<i>Lepus nigricollis</i>	Indian Black-naped Hare	Leporidae	LC/II
4.	<i>Macaca mulatta</i>	Rhesus Macaque	Cercopithecidae	LC/-
5.	<i>Mus booduga</i>	Field Mouse	Muridae	LC/-

Avifauna				
1.	<i>Accipiter badius</i>	Shikra	Accipitridae	LC/I
2.	<i>Acridotheres ginginianus</i>	Bank Myna	Sturidae	LC/II
3.	<i>Acridotheres tristis</i>	Common Myna	Sturidae	LC/II
4.	<i>Actitis hypoleucos</i>	Common Sandpiper	Scolopacidae	LC/II
5.	<i>Alcedo atthis</i>	Common Kingfisher	Alcedinidae	LC/II
6.	<i>Amandava amandava</i>	Red Avadavat	Estrildidae	LC/II
7.	<i>Apus affinis</i>	Little Swift	Apodidae	LC/II
8.	<i>Ardeola grayii</i>	Indian Pond Heron	Ardeidae	LC/II
9.	<i>Athene brama</i>	Spotted Owlet	Strigidae	LC/II
10.	<i>Centropus sinensis</i>	Greater Coucal	Cuculidae	LC/II
11.	<i>Columba livia</i>	Rock Pigeon	Columbiae	LC/-
12.	<i>Coracias benghalensis</i>	Indian Roller	Coraciidae	LC/II
13.	<i>Dendrocitta vagabunda</i>	Rufous Treepie	Corvidae	LC/II
14.	<i>Dinopium benghalense</i>	Black rumped flameback	Picidae	LC/II
15.	<i>Egretta garzetta</i>	Little Egret	Ardeidae	LC/II
16.	<i>Eudynamys scolopacea</i>	Asian Koel	Cuculidae	LC/II
17.	<i>Halcyon smyrnensis</i>	White-throated Kingfisher	Ardeidae	LC/II
18.	<i>Himantopus himantopus</i>	Black Winged Stilt	Recurvirostridae	LC/-
19.	<i>Megalaima haemacephala</i>	Coppersmith Barbet	Megalaimidae	LC/II
20.	<i>Milvus migrans</i>	Black Kite	Accipitridae	LC/II
21.	<i>Mycteria leucocephala</i>	Painted stroke	Ciconiidae	NT/II
22.	<i>Nectarinia asiatica</i>	Purple Sunbird	Nectariniidae	LC/II
23.	<i>Ocyrceros birostris</i>	Indian Grey Hornbill	Bucerotidae	LC/II
24.	<i>Passer domesticus</i>	House Sparrow	Passeridae	LC/II
25.	<i>Pavo cristatus</i>	Indian Peafowl	Phasianidae	LC/I

26.	<i>Pseudibis papillosa</i>	Red-headed Ibis	Threskiornithidae	LC/II
27.	<i>Psittacula eupatria</i>	Alexandrine Parakeet	Psittacidae	NT/II
28.	<i>Pycnonotus cafer</i>	Red-vented Bulbul	Pycnonotidae	LC/II
29.	<i>Threskiornis melanocephalus</i>	Black-headed Ibis	Threskiornithidae	NT/II
30.	<i>Treron phoenicoptera</i>	Yellow Footed Green Pigeon	Columbidae	LC/II
31.	<i>Turdoides striatus</i>	Jungle Babbler	Leiotrichidae	LC/II
32.	<i>Vanellus indicus</i>	Red-wattled Lapwing	Charadriidae	LC/
33.	<i>Upupa epops</i>	Common Hoopoe	Upupidae	LC/II
Butterflies				
1.	<i>Ariadne merione</i>	Common Castor	Nymphalidae	-
2.	<i>Belenois aurota</i>	Pioneer White	Pieridae	LC/-
3.	<i>Catopsilia pyranthe</i>	Mottled Emigrant	Pieridae	-
4.	<i>Chilades pandava</i>	Plain Cupid	Lycaenidae	-
5.	<i>Danaus chrysippus</i>	Plain Tiger	Nymphalidae	LC/-
6.	<i>Eurema hecabe</i>	Common Grass Yellow	Pieridae	LC/-
7.	<i>Hypolimnas misippus</i>	Danaid Eggfly	Nymphalidae	
8.	<i>Melanitis leda</i>	Common Evening Brown	Nymphalidae	
9.	<i>Papilio demoleus</i>	Common Swallowtail	Papilionidae	LC/-
10.	<i>Phalanta phalantha</i>	Common Leopard	Nymphalidae	LC/-
11.	<i>Spindasis vulcanus</i>	Common Silverline	Lycaenidae	-
12.	<i>Zizula hylax</i>	Tiny Grass Blue	Lycaenidae	LC/-
Amphibians				

1.	<i>Bufo stomaticus</i>	Indus Valley Toad	Bufonidae	LC/-
2.	<i>Duttaphrynus melanostictus</i>	Asian Common Toad	Bufonidae	LC/-
3.	<i>Euphyctis cyanophlyctis</i>	Skittering Frog	Dicroglossidae	LC/II
Reptiles				
1.	<i>Calotes versicolor</i>	Oriental Garden Lizard	Agamidae	LC/-
2.	<i>Eutropis carinata</i>	Keeled Indian Mabuya	Scincidae	LC/-
3.	<i>Hemidactylus leschenaultii</i>	Bark Gecko	Gekkonidae	LC/-
Abbreviations: LC= Least Concerned, VU= Vulnerable, NT= Near Threatened, EN= Endangered				
WPA= Wildlife Protection Act 2022				
Source: Based on Primary Site visit and Secondary Survey				



Project site

77°8'15"E

77°10'30"E

10 KM STUDY AREA MAP WITH SATELLITE IMAGERY

Waste to Energy Thermal Power Project
(30 MW) at Bawana by M/s Jindal Urban
Waste Management (Bawana) Limited.



28°52'30"N

28°50'15"N

28°48'0"N

28°45'45"N

28°43'30"N

28°41'15"N

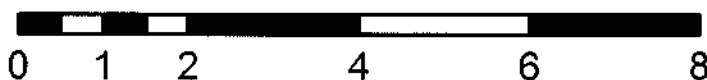
Legend



Project site



10km study area



Kilometers

77°8'15"E

77°10'30"E

To,
Dy. Conservator of Forests (North Division),
Mahatma Gandhi Institute for Combating Climate Change,
Alipur, Bakhthawarpur Road,
New Delhi-110036

Subject: RE approval of Wildlife Conservation of Plan for the proposed Waste to Energy Thermal Power project capacity 30 MW by M/s Jindal Urban Waste Management (Bawana) Limited at DSIIDC Industrial Area, Sector-5, Bawana, Delhi -110039

Reference: Department of Forests & Wildlife Letter dated 26.11.2025 Ref. No. F.No.260/CWLW/WL/WLP/10980-82

Dear Sir/Ma'am,

This is with reference to the subject cited above, M/s Jindal Urban waste Management (Bawana) Limited had proposed Waste to Energy Thermal Power Project of capacity 30 MW $\pm$ 6 MW at DSIIDC Industrial Area, Sector-5, Bawana, Delhi-110039, for which Environmental Clearance was granted on 18.06.2025 and as per Specific EC Conditions S. No. 1.16 –

“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.”

In furtherance, Dept. of Forests & Wildlife have approved budget of Rs. 60 Lakhs vide Letter Ref No. F.No.260/CWLW/WL/JindalWLP/10980-82 dated 26.11.2025 in reference to our letter dated 10.07.2025 Ref No. JUWMBL/DCF/2025-26/17 wherein break up of Rs. 60 Lakhs spreading in five years was annexed. Accordingly, Rs. 11 Lakhs (as per **Annexure-1** annexed herewith) to be deposited to your good office for 1st year i.e. current FY. Therefore, it is requested to provide the bank account /demand draft details wherein the allocated budget of Rs. 11 Lakhs can be deposited.

Thanking You!

Yours Faithfully,

For M/s Jindal Urban Waste Management (Bawana) Limited



Authorized Signatory

ANNEXURE -1

BUDGET ALLOCATION & IMPLEMENTATION SCHEDULE

Sr. No.	Item	Year wise Allocation of Funds (Rs. In Lakhs)					
		Ist Year	IIInd Year	IIIrd Year	IVth Year	Vth Year	Total
1	Contribution towards Habitat improvement & mitigate measures (Food, Water, Shelter, Movement etc.) and measures to reduce/ minimize the human-animal conflicts Provision and development of Water bodies, their cleanliness and introduction of fingerlings water holes,	2	3	3	3	1	12
2	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation) for project personnel and community awareness. Distribution of Educational and awareness material.	1	2	1	2	2	8
3	Support to Forest Department for monitoring, rescue & rehabilitation of wildlife (Veterinary care, animal health, rescue, tools and equipment's etc.). Hiring of Veterinary Services	8	8	8	8	8	40
Total		11	13	12	13	11	60

Ref No: JUWMBL/DCF/2025-26/034

Date: 20.02.2026

To,
Dy. Conservator of Forests (North Division),
Mahatma Gandhi Institute for Combating Climate Change,
Alipur, Bakhthawarpur Road,
New Delhi-110036

Subject: Submission of Demand Draft against approved Wildlife Conservation of Plan for the proposed Waste to Energy Thermal Power project capacity 30 MW by M/s Jindal Urban Waste Management (Bawana) Limited at DSIIDC Industrial Area, Sector-5, Bawana, Delhi -110039

Reference: Department of Forests & Wildlife Letter Ref No. F No. 09/DCF(N)/Wildlife Conservation Plan/Jindal/2024-25/3730-33 dated 04.02.2026

Dear Sir/Ma'am,

This is in reference to the subject cited above the Dept. of Forests & Wildlife had approved budget of Rs. 60 Lakhs vide letter Ref No. F.No.260/CWLW/WL/JindalWLP/10980-82 dated 26.11.2025 in reference to our letter dated 10.07.2025 Ref No. JUWMBL/DCF/2025-26/17 wherein break up of Rs. 60 Lakhs spreading in five years was annexed.

Accordingly, Demand Draft No. 49010 of Rs. 11 Lakhs dated 19.02.2026 for 1st year i.e. current FY is being submitted to your good office. Kindly acknowledge the same.

Thanking You!

Yours Faithfully,

For M/s Jindal Urban Waste Management (Bawana) Limited


Authorized Signatory

Enclosure: Demand Draft No. 49010 of Rs. 11 Lakhs dated 19.02.26

Copy to: 1. Principal Chief Conservator of Forests, Dept. of Forests & Wildlife, Govt. Of NCT of Delhi

2. Conservator of Forests, Dept. of Forests & Wildlife, Govt. Of NCT of Delhi

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

1 9 0 2 2 0 2 6

D D M M Y Y Y Y

DD NO:49010 1100000.00

Indusind Bank

From Indusind Bank Limited BARAKHAMBDA ROAD, NEW DELHI Not Over ₹: _____

INDUSIND BANK

DY. CONSERVATOR OF FOREST (NORTH)

On Demand Pay Or Order

Eleven Lakh only
Rupees एक्की

PURCHASER: JINDAL URBAN WASHTING WATER SUPPLY

T (BAWANA) LIMITED

A/c No.
खाता नं.

To,
Indusind Bank Ltd.
NEW DELHI
DD (0005) BRANCH

For value received
For Indusind Bank Ltd.

Amit Shrivastava
SS No. 2411
Prakash Kumar
SS No. 21245

1104901010002340001

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OT TT OL TL HC

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ANNEXURE – 4

**Comprehensive Report on the Medical Health
Check-up Camp including the photographs.**

Comprehensive Report

on

Free Medical Health Check-up Camp

held at Bawana, dated 14-03-2026

Vision: To build a healthier, more resilient community by ensuring access to both medical consultation and the distribution of essential medicines in support of life while also strengthening trust and goodwill between the institution and the local community through meaningful social responsibility initiatives.

Objective: To extend the benefits of the free medical health check-up camp to the maximum number of people in local community while fulfilling the statutory Environmental Clearance commitments under the CER/CSR activity.

Scope/Coverage Area: JJ Colony, Bawana, Delhi.

Description: As per OPD record, a total of 129 patients were seen including 50 males and 79 females. Most patients were adults between 13–60 years (88 people), while smaller numbers came from children (0–12 years) and elderly (61–100 years).

Basic health checks were done along with the medicine distribution for blood pressure, random blood sugar, and haemoglobin.

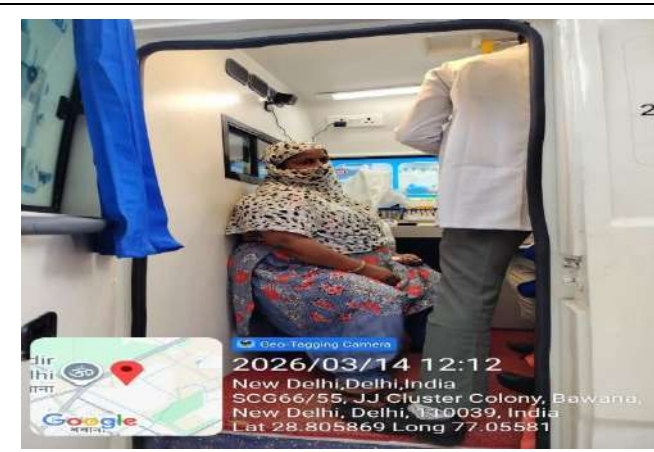
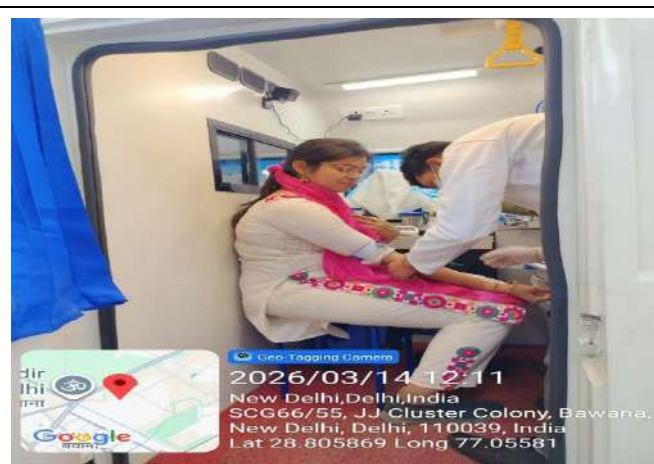
Pathology tests were also carried out including Vitamin B12, HbA1c for diabetes, Vitamin D3, Thyroid profile, and CBC. Other tests such as KFT, LFT, calcium, lipid profile, typhoid, and iron profile were conducted in smaller numbers. The basic screening was evenly distributed between genders, with slightly more females undergoing BP and HB checks.

Age Group	Male (M)	Female (F)	Total	Medicine Distribution (BP / RBS / HB)	Pathology Tests (Selected)
0–5	7	4	11	BP:3 / RBS:2 / HB:3	-
6–12	4	10	14	BP:4 / RBS:2 / HB:4	-
13–60	33	55	88	-	Hba1c:11, Thyroid:7, Vit D3:10, Vit B12:12, Iron:2
61–100	6	10	16	-	-

Overall, the data shows that most patients were adult women, and the primary health focus was on nutritional deficiencies and lifestyle diseases such as diabetes and thyroid disorders.

Photographs







ANNEXURE – 5

Receivings of the intimation letter regarding the grant of Environmental Clearance, sent to all concerned government offices.

Ref. No.: JUWM(B)L/EC/2025-26/07

Date: 20-06-2025

To,
The District Magistrate,
North District, Govt. of NCT of Delhi,
BDO Block, Alipur,
Delhi - 110036.

Subject: Information regarding grant of Environmental Clearance (EC) for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited.

Respected Sir,

We are pleased to inform you that Environment Clearance for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited has been accorded by the Ministry of Environment, Forest & Climate Change vide file no. J-13012/04/2023-IA.I (T) on 18-06-2025.

As per the clause 29(ii) of environment clearance letter, it is stated that,

"...The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt."

Therefore, we are herewith enclosing a copy of Environment Clearance for your kind information and necessary action. Kindly ensure it is displayed at your esteemed office for a period of 30 days in compliance with the specified condition.

Thanking You,

Yours Faithfully

For M/s Jindal Urban Waste Management (Bawana) Limited


Sandip Bhatt
(Authorized Signatory)


District Magistrate (North)
Sd/- 7735
Date 20/6/2025
Alhaur. Delhi-110036

Encl: as above

Ref. No.: JUWM(B)L/EC/2025-26/10

Date: 20-06-2025

To,
The Commissioner of Industries,
Govt. of NCT of Delhi, 419, Udyog Sadan,
FIE Patparganj,
Delhi - 110092.

Subject: Information regarding grant of Environmental Clearance (EC) for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited.

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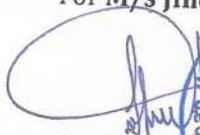
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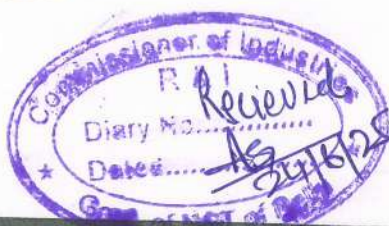
Thanking You,

Yours Faithfully

For **M/s Jindal Urban Waste Management (Bawana) Limited**


Sandip Dutt
(Authorized Signatory)

Encl: as above



Ref. No.: JUWM(B)L/EC/2025-26/09

Date: 20-06-2025

To,
The Chairman,
Delhi Pollution Control Committee,
6th Floor, C wing, Delhi Secretariat, I P Estate,
Delhi - 110002.

Adhish
23/06/25
(ENQUIRY COUNTER)
DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT
GOVT. OF NCT OF DELHI
4TH FLOOR, ISBT BUILDING,
KASIMERE GATE, DELHI-110006

Subject: Information regarding grant of Environmental Clearance (EC) for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited.

Respected Sir,

We are pleased to inform you that Environment Clearance for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited has been accorded by the Ministry of Environment, Forest & Climate Change vide file no. J-13012/04/2023-IA.I (T) on 18-06-2025.

As per the clause 29(ii) of environment clearance letter, it is stated that,

"...The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt."

Therefore, we are herewith enclosing a copy of Environment Clearance for your kind information and necessary action. Kindly ensure it is displayed at your esteemed office for a period of 30 days in compliance with the specified condition.

Thanking You,

Yours Faithfully

For M/s Jindal Urban Waste Management (Bawana) Limited


Sandip Dutt
(Authorized Signatory)



Encl: as above

Ref. No.: JUWM(B)L/EC/2025-26/06

Date: 20-06-2025

To,
The Executive Engineer (WtE) DEMS,
Municipal Corporation of Delhi,
Room No.-1901, 19th Floor, E-1 Block,
Dr. S.P.M. Civic Centre, JLN Marg, Delhi Gate,
New Delhi - 110002.



Subject: Information regarding grant of Environmental Clearance (EC) for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited.

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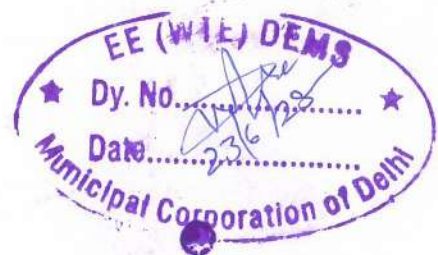
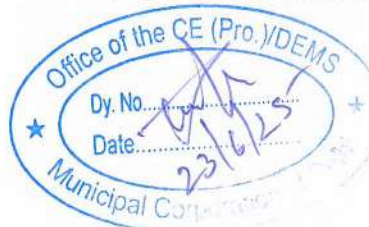
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Thanking You,

Yours Faithfully

For M/s Jindal Urban Waste Management (Bawana) Limited


Sandip Butti
(Authorized Signatory)



Copy to:

1. The Commissioner, Municipal Corporation of Delhi, 9th Floor, Dr. S.P.M. Civic Centre, Minto Road, New Delhi - 110002.
2. The Chief Engineer, Municipal Corporation of Delhi, 19th Floor, Dr. S.P.M. Civic Centre, Minto Road, New Delhi - 110002.

Encl: as above

Ref. No.: JUWM(B)L/EC/2025-26/08

Date: 20-06-2025

To,
The Vice Chairman,
Delhi Development Authority,
Vikas Sadan, INA,
Delhi - 110023.

Subject: Information regarding grant of Environmental Clearance (EC) for the "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIIDC Industrial Area, Sector 5, village Bawana, Sub-district Narela, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited.

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Yours Faithfully

For M/s Jindal Urban Waste Management (Bawana) Limited


Sandip Dutt
(Authorized Signatory)

Encl: as above



R & D SYSTEMS

www.dda.org.in

**DELHI DEVELOPMENT AUTHORITY
(Receipt & Despatch Cell)**

Acknowledgement

Receipt Number : REC / M / 25 / 3,887 Date: 23/06/2025 2:51:26PM
Letter Date : 23/06/2025
Subject : SUBMISSION OF DOCUMENTS
DDA file Number : JUWM(B)L/EC/2025-26/08
Received From : M/S JINDAL ORBAN WASTE MANAGEM
Addressed To : M VICE CHAIRMAN, DDA
Total Pages 13

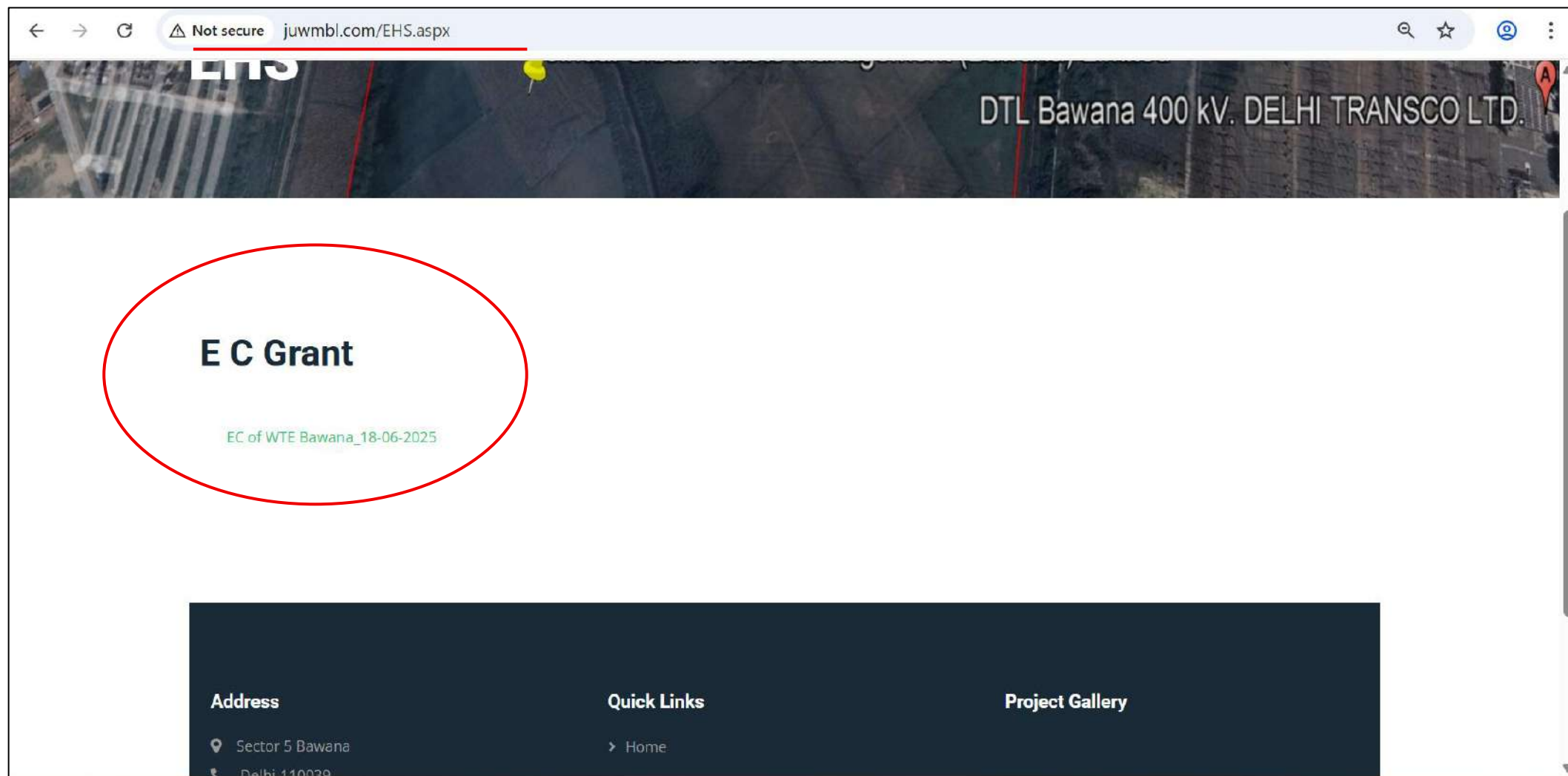
1. The correctness of the above enclosures are subject to verification by the concerned Department
2. For any type of clarification and inquiry, please contact the branch officer Directors and Dy. Directors concerned on any working days Monday & Thursday between 2.30 PM to 4.30 PM, And Commissioners and above between 2:30 PM to 3:30 PM (with prior online appointment)

Received By : RAVINDER KUMAR

ANNEXURE – 6

**Environment Clearance Letter uploaded on
Company Website.**

ENVIRONMENT CLEARANCE LETTER UPLOADED ON THE COMPANY WEBSITE



ANNEXURE – 7

**Newspaper Advertisement regarding the grant
of Environment Clearance.**

NEWSPAPER ADVERTISEMENT OF EC LETTER

atre by its commonly used

PUBLIC NOTICE

General Public is hereby informed that Environment Clearance to the "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" has been accorded by Ministry of Environment, Forest & Climate Change (MoEF&CC) vide File No: J-13012/04/2023-IA.I (T) on 18.06.2025. The copy of the Environment Clearance is available with MoEF&CC and Delhi Pollution Control Committee (DPCC) and may also be seen at MoEF&CC website: <https://parivesh.nic.in>

English Newspaper "The Pioneer" (Page-9) published on 23.06.2025

लगे सीसीटीवी कैमरों को फुटेज खंगाली

PUBLIC NOTICE

General Public is hereby informed that Environment Clearance to the "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" has been accorded by Ministry of Environment, Forest & Climate Change (MoEF&CC) vide File No: J-13012/04/2023-IA.I (T) on 18.06.2025. The copy of the Environment Clearance is available with MoEF&CC and Delhi Pollution Control Committee (DPCC) and may also be seen at MoEF&CC website: <https://parivesh.nic.in>

THE PIONEER

हिंदी समाचार पत्र "पायनियर" (पेज -2) दिनांक 23.06.2025

Gali No.07, 3rd Pusta, Nr Circular Rd., Sonia Vihar, Delhi-94 have changed my name to Sanjay Sharma for all future purpose. 1272423

I hitherto known as Vijay Bhardwaj S/o Satya Narain R/o 41, Savita Vihar, VTC: Anand Vihar, PO: Laxmi Nagar, Sub District, Gandhi Nagar, District, East Delhi, State: Delhi, PIN Code: 110092 have changed my name and shall hereafter be known as VIJAY SHARMA. 1272424

I hitherto known as Jai Prakash S/o Dheer Singh R/o House No. 104 Village Nithari Nithari, North West Delhi, Delhi 110086 have changed my name and shall hereafter be known as Sunny Vijayran. 1272425

I, hitherto known As Reena Budguzer W/o Madan Lal & D/o

I, Rajesh Kumar S/o Prempal Singh R/o Yadgarpur, Post Burhanabad, Eta, Uttar Pradesh-207125, have changed the name of my minor daughter Utpreksha alias Utpalakshi Krishnam aged 7 Years and she shall hereafter be known as Utpalakshi Krishnam. 7000001

सार्वजनिक सूचना

सार्वजनिक सूचना

आम जनता को सूचित किया जाता है कि डी.एस.आई.आई.डी.सी. औद्योगिक क्षेत्र, सेक्टर 5, गांव बबाना, उप-जिला नरैला, जिला उत्तरी दिल्ली, दिल्ली में 30 मेगावाट क्षमता की प्रस्तावित अपशिष्ट से ऊर्जा (वेस्ट-टू-एनर्जी) थर्मल पावर परियोजना के लिए मंजूरी पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (MOEF&CC) के पत्र संख्या: J-13012/04/2023-IAJ (T) दिनांक 18.06.2025, द्वारा मेसर्स जिंदल अर्बन वेस्ट मैनेजमेंट (बबाना) लिमिटेड को दिया गया है। पर्यावरण मंजूरी की प्रति MOEF&CC तथा दिल्ली प्रदूषण नियंत्रण समिति (DPCC) के पास उपलब्ध है एवं इसे MOEF&CC के वेबसाइट <https://parivesh.nic.in> पर भी देखा जा सकता है।

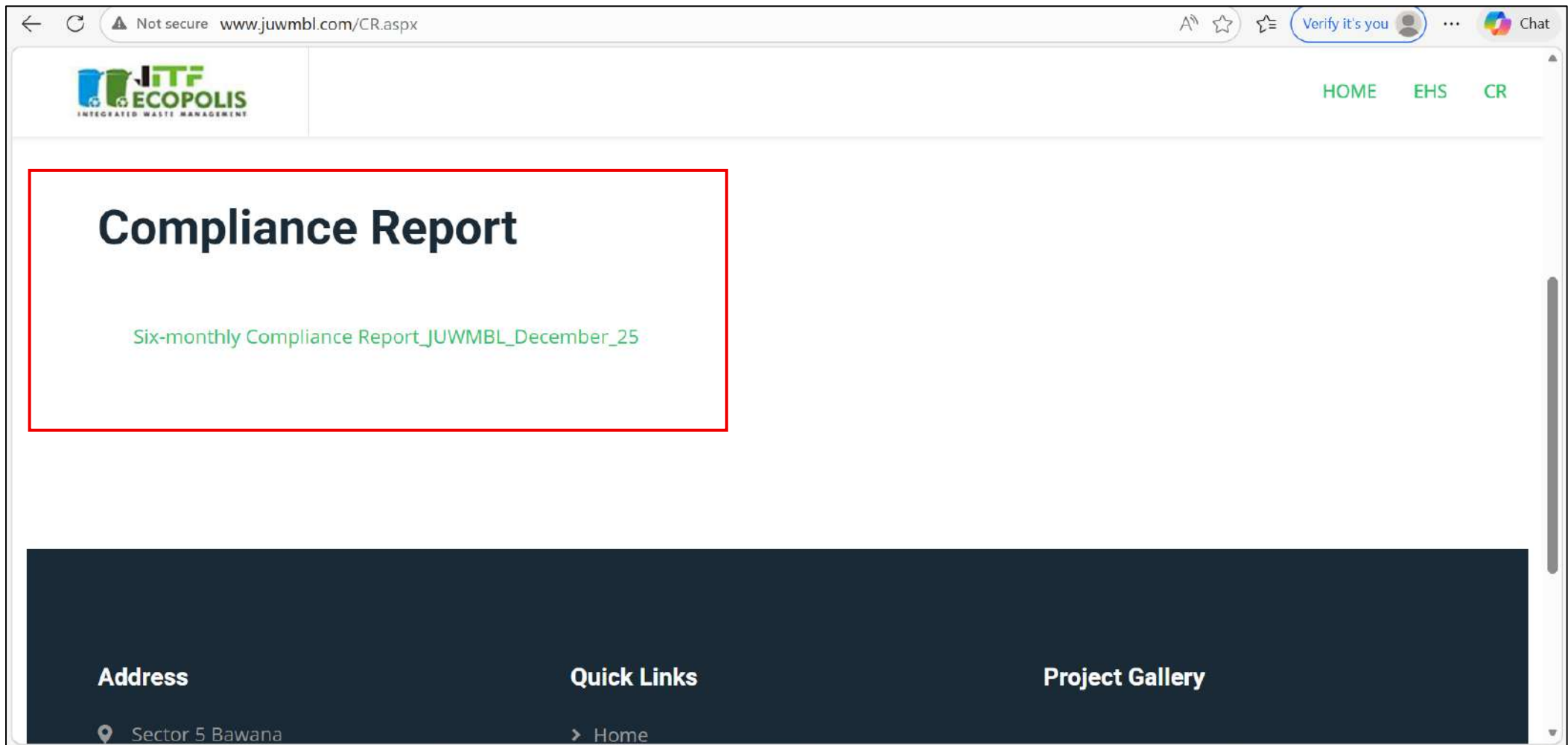
हिंदी समाचार पत्र "पंजाब केसरी" (पेज - 9) दिनांक 23.06.2025

ANNEXURE – 8

EC compliance uploaded on the company website.

SCREENSHOT OF SIX-MONTHLY COMPLIANCE REPORT UPLOADED ON THE COMPANY WEBSITE

The six-monthly compliance report is available on the company website and can be accessed through the given link juwmbbl.com/CR.aspx



The screenshot displays a web browser window with the URL www.juwmbbl.com/CR.aspx. The browser's address bar shows a "Not secure" warning. The website's header features the JTF Ecopolis logo (Integrated Waste Management) on the left and navigation links for HOME, EHS, and CR on the right. The main content area is titled "Compliance Report" in a large, bold, black font. Below this title, a green link reads "Six-monthly Compliance Report_JUWMBL_December_25". A red rectangular box highlights the title and the link. The footer is a dark blue bar containing three sections: "Address" with the location "Sector 5 Bawana", "Quick Links" with a link to "Home", and "Project Gallery".

Compliance Report

[Six-monthly Compliance Report_JUWMBL_December_25](#)

Address
Sector 5 Bawana

Quick Links
> Home

Project Gallery

ANNEXURE – 9

Receivings of submission of six-monthly compliance report both in hard copies as well as by email to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB, and the DPCC.

Ref. No.: JUWMBL/MoEFCC/2025-26/24

Date: 27-11-2025

To,
The Director IA.I,
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhavan, Jor Bagh Road,
New Delhi- 110003.



Subject: Submission of **Half-Yearly EC compliance Report (June to September, 2025)** for "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIDC Industrial Area, Sector-5, Bawana, Delhi-110039 by M/s Jindal Urban Waste Management (Bawana) Limited.

Reference: (i) Environment Clearance letter vide EC Identification No. EC25A0603DL5984671N and File No.: J-13012/04/2023-IA.I (T) dated 18/06/2025.

Respected Sir,

With reference to the above-mentioned subject, we are herewith submitting the half-yearly compliance report for the period of **June to September, 2025** along with necessary annexures and soft copies on CD for "Proposed Waste to Energy Thermal Power Project of capacity 30 MW" located at DSIDC Industrial Area, Sector-5, Bawana, Delhi-110039 by M/s Jindal Urban Waste Management (Bawana) Limited.

A soft copy of the said report has been emailed to the Regional Office of MoEF&CC and the Zonal Offices of CPCB and SPCB (DPCC) by e-mail roc2.lko-mef@nic.in, mscb.cpcb@nic.in and msdpcc@nic.in, respectively.

Thanking You.

Yours Sincerely,

For M/s Jindal Urban Waste Management (Bawana) Limited



(Authorized Signatory)

28/11/25
INQUIRY COUNTER
DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT
GOVT. OF NCT OF DELHI
4TH FLOOR, ISBT BUILDING,
KASIMHIRE GATE, DELHI-110006

Copy to:

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Bhawan, 11th Floor, Sector "H", Aliganj, Lucknow – 226024.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD- cum-Office Complex, East Arjun Nagar, Delhi- 110032.
3. The Chairman, Delhi Pollution Control Committee, 3rd floor, Block-B, Delhi IT Park, Shastri Park, Delhi- 110053.
4. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi- 110066.

Encl: As above



Submission of Half-Yearly Compliance Report for the period of June, 2025 to September 2025 on the stipulated conditions of Environmental Clearance for M/s Jindal Urban Waste Management (Bawana) Limited

From Info JuwmbL <Info.JuwmbL@jindalecopolis.com>

Date Sat 11/29/2025 3:34 PM

To rocz.lko-mef@nic.in <rocz.lko-mef@nic.in>

Cc Bikramjit Singh <Bikramjit.Singh@jindalecopolis.com>; Sandip Dutt <Sandip.Dutt@jindalecopolis.com>

 2 attachments (15 MB)

EC Compliance Report (June'25 to Sep'25)_JUWMBL.pdf; Indian Post receipt.pdf;

Respected Sir/Ma'am,

Please find herewith the soft copy of **Half-Yearly EC Compliance Report** for the period **June' 2025 to September' 2025**, in reference to the Environment Clearances vide EC Identification No. EC25A0603DL5984671N and EC Letter File No. J-13012/04/2023-IA.I (T) dated 18.06.2025 for **M/s Jindal Urban Waste Management (Bawana) Limited** located at DSIIDC Industrial Area, Sector - 5, Bawana, Delhi - 110039 .

The hard copy of the same has been submitted to your good office on 28.11.2025.

This is for your kind information and acknowledgment please.

Thank You!

Best Regards,

Sinu Roy (EHS)

M/s Jindal Urban Waste Management (Bawana) Limited

Submission of Half-Yearly Compliance Report for the period of June, 2025 to September 2025 on the stipulated conditions of Environmental Clearance for M/s Jindal Urban Waste Management (Bawana) Limited

From Info JuwmbL <Info.JuwmbL@jindalecopolis.com>

Date Sat 11/29/2025 3:37 PM

To mscb.cpcb@nic.in <mscb.cpcb@nic.in>

Cc Bikramjit Singh <Bikramjit.Singh@jindalecopolis.com>; Sandip Dutt <Sandip.Dutt@jindalecopolis.com>

 2 attachments (15 MB)

Receiving of EC Comp. submission at DPCC, CPCB, MoEFCC__JUWMBL.pdf; EC Compliance Report (June'25 to Sep'25)_JUWMBL.pdf;

Respected Sir/Ma'am,

Please find herewith soft copy of **Half-Yearly EC Compliance Report** for the period **June' 2025 to September' 2025**, in reference to the Environment Clearances vide EC Identification No. EC25A0603DL5984671N and EC Letter File No. J-13012/04/2023-IA.I (T) dated 18.06.2025 for **M/s Jindal Urban Waste Management (Bawana) Limited** located at DSIIDC Industrial Area, Sector - 5, Bawana, Delhi - 110039 .

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M/s Jindal Urban Waste Management (Bawana) Limited

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From Info JuwmbL <Info.JuwmbL@jindalecopolis.com>

Date Sat 11/29/2025 3:36 PM

To msdpcc@nic.in <msdpcc@nic.in>; wmc2dpcc2025@gmail.com <wmc2dpcc2025@gmail.com>

Cc Bikramjit Singh <Bikramjit.Singh@jindalecopolis.com>; Sandip Dutt <Sandip.Dutt@jindalecopolis.com>

 2 attachments (15 MB)

EC Compliance Report (June'25 to Sep'25)_JUWMBL.pdf; Receiving of EC Comp. submission at DPCC, CPCB, MoEFCC_JUWMBL.pdf;

Respected Sir/Ma'am,

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