

DRAFT EIA REPORT (ANNEXURES)

FOR

PROPOSED WASTE TO ENERGY PROJECT (30MW)

AT

DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI
CATEGORY 'A'



BASELINE STUDY PERIOD: MARCH 2023-MAY 2023

MCPL/EIA/THE/2022-23/14/00/ September, 2024

TOR FILE NO. & DATE: J-13012/04/2023-IA-I(T) dated 10.01.2024

PROJECT PROPONENT

M/S JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED, DELHI

ENVIRONMENTAL CONSULTANT



MANTEC CONSULTANTS PVT. LTD.

(QCI Accredited EIA Consultant certificate No.: NABET/EIA/25-26/RA 0305, April 20, 2020)

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Annexure-I

TOR Letter



File No: J-13012/04/2023-IA.I (T)
 Government of India
 Ministry of Environment, Forest and Climate Change
 IA Division



Dated 10/01/2024



To,

M/s JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED
 U-1, UPSIDC INDUSTRIAL AREA, NANDGAON, CHHATA, Koshi Kalan, MATHURA, UTTAR
 PRADESH, 281403
Info.Juwabi@jindalecopolis.com

Subject: Waste to Energy Thermal Power Project of capacity 30 MW at villages Badli, Sub-district Alipur, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited - Reconsideration for Terms of References (ToR) - reg.

Sir/Madam,

This is in reference to your application vide proposal number IA/DL/THE/435160/2023 dated 11/08/2023 for grant of Terms of Reference to the project for Waste to Energy Thermal Power Project of capacity 30 MW at villages Badli, Sub-district Alipur, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited, under the provision of the EIA Notification 2006.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO23A0603DL5223800N
(ii) File No.	J-13012/04/2023-IA.I (T)
(iii) Clearance Type	TOR
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(d) Thermal Power Plants
(vi) Sector	Thermal Projects
(vii) Name of Project	Proposed Waste to Energy Project 50 MW, DSIIDC Industrial Area, sector-5, Bawana, Delhi- 110039 by M/s Jindal Urban Waste Management (Bawana) Limited.
(viii) Name of Company/Organization	JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED
(ix) Location of Project (District, State)	NORTH WEST, DELHI
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions	yes

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1 (Part A and B) were submitted to the Ministry for an appraisal by the Expert Appraisal Committee (EAC) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by Expert Appraisal Committee of EAC in the meeting held on 31/10/2023. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A and Part B)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent during EAC meeting are annexed.
6. The EAC, in its meeting held on 31/10/2023, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference, under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (1).
7. The details of the project is at Annexure (2).
8. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee hereby decided to grant Terms of Reference for Waste to Energy Thermal Power Project of capacity 30 MW at villages Badli, Sub-district Alipur, District North Delhi, Delhi by M/s Jindal Urban Waste Management (Bawana) Limited, under the provisions of EIA Notification, 2006 and as amended thereof.
9. The Ministry reserves the right to stipulate additional conditions, if found necessary.
10. The Terms of Reference to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
11. This issues with the approval of the Competent Authority.

Copy To

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R. K. Puram, New Delhi - 110 066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032.
4. The Deputy Inspector General of Forests, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur, A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Bhavana Institutional Area, Jaipur - 304002, Rajasthan
5. The Chairman, Delhi Pollution Control Committee, 6th floor, C wing, Delhi Secretariat, I P Estate, Delhi-110002.
6. Guard file/Monitoring file
7. Website of MoEF&CC.

Annexure 1

Specific Terms of Reference for (Thermal Power Plants)

1. Socio-economic Study

S. No	Terms of Reference
1.1	- Public Health Delivery Plan including the provisions of drinking water supply for local population shall be in the EIA/EMP Report. Status of the existing medical facilities in the project area shall be discussed. Possibilities of strengthening of existing medical facilities, construction of new medical infrastructure etc. will be explored after assessing the need of the labour force and local populace. - All the tasks including conducting public hearing shall be done as per the provisions of EIA Notification, 2006 and as amended from time to time. Public hearing issues raised and compliance of the same shall be incorporated in the EIA/ EMP report in the relevant chapter. - Statement on the commitments (activity-wise) made during public hearing to facilitate the discussion on the CER in compliance of the Ministry's OM F. No. 22- 65/2017-LA.III dated 30th September, 2020 shall be submitted. Tentative no. of project affected families shall be identified and accordingly appropriate Rehabilitation & Resettlement plan shall be prepared. - Details of settlement in 10 km area shall be submitted. - Harnessing solar power within the premises of the plant particularly at available roof tops and other available areas shall be formulated and for expansion projects, status of implementation shall also be submitted.

2. Environmental Management And Biodiversity Conservation

S. No	Terms of Reference
2.1	- Cumulative Environmental Impact Assessment study of all the existing and proposed projects in the 15-km radius of the proposed project shall be conducted. - Details of characterization of Municipal solid waste, its segregation process and disposal of waste management plan shall be submitted along with EIA. - A plan shall be submitted to minimize the least use of hard plastic getting burnt into the incinerators. - A study shall be carried out that commissioning of the project can decrease air emission level in the surrounding area as compare to current situation. - Proximate and ultimate analysis, Calorific value of municipal waste proposed to be brought from nearby MSW shall be carried out for design purpose of boilers. Mass balance of waste in the process shall be submitted. - Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for Characterization of leachate, any potential of leaching heavy metals into the surrounding areas as well as into the groundwater. TCLP analysis of heavy metals, texture, bulk density, Cation Exchange Capacity of Heavy metals in the flyash and bottom ash shall be conducted for existing nearby plant. - The remedial measures for arresting dust generation on roads and atmosphere, Air pollution control measures including NOx control measure, treatment of leachate and stabilizing the slopes shall be taken up. Implementation plan along with timelines and financial allocations for Scientific and engineered closure of existing landfill shall be submitted.

S. No	Terms of Reference
	8. Detailed Geo-hydrological study shall be conducted w. r. t hydraulic gradient, porosity and infiltration around 2 km of the landfill site. 9. Aquifer characteristics shall be clearly mapped by conducting in-situ studies. 10. Treatment and disposal of leachate shall be submitted. No water from the plant is allowed to enter into canal/ nallah/ stream. 11. Details regarding Flue gas treatment, ash generation and its disposal/utilization method shall be submitted. 12. Monitoring of dioxins and furans and other heavy metals shall also be carried out in the stack emissions as per the Municipal Solid Waste Rules, 2016 for one season of the existing nearby waste to energy plant. 13. Impact of existing integrated facility on natural environment be studied and a comparative statement clearly mentioning the impacts on existing water bodies, and other ecologically sensitive areas within 10 km radius of project be submitted. 14. A comparative chart shall be prepared with changes observed from previous baseline study (existing nearby Waste to Energy Plant) and present baseline study. 15. An epidemiological study shall be carried out within 5 kms range of the existing integrated facility. 16. Detailed action plan shall be prepared for maintenance of air pollution control equipment. 17. Pond and ground water quality (10 locations within 2 km radius of the plant boundary) shall be studied and report be submitted along with EIA/EMP. Action plan for Ground water monitoring stations on all hotspots like schools/hospitals within 2 km radius of the plant boundary be submitted. 18. Baseline Study for Heavy metals in Ground water, Surface water and soil to be carried out and incorporated in EIA/EMP report. 19. Details pertaining to water source, treatment and discharge should be provided. 20. Zero Liquid Discharge plan shall be submitted. 21. Action plan for development of green belt (40% of total project cover area) along the periphery plantation with 90% survival rate and detailed plan for thick plantation in the surrounding Nallah/stream shall be submitted. 22. PP shall submit action plan for using treated Sewage Domestic wastewater for its operations. 23. Project Proponent to conduct Environmental Cost Benefit Analysis for the project in EIA/EMP Report. 24. An action plan shall be prepared for Water shed development within 10 km radius of the plant boundary in consultation with reputed government institution. 25. A detailed plan need to be submitted for undertaking extensive green plantation within 10 km radius of the plant focusing on water reservoir, school, hospital and other institutional area and same need to be incorporated in EIA/EMP report. 26. Recommendations of the Commission for Air Quality Management in National Capital Region and Adjoining Areas shall be submitted.

3. Disaster Management

S. No	Terms of Reference
3.1	1. Disaster Management Plan shall be prepared and incorporated in EIA/EMP report.

4. Miscellaneous:

S. No	Terms of Reference
4.1	1. PP shall submit details of court cases and its status for the project. 2. A letter shall be submitted certified that the JSW is the current bidder and it has valid consent. 3. The PP should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyze the samples. 4. Aerial view video of project site shall be recorded through drone and be submitted.

Standard Terms of Reference for (Thermal Power Plants)

1. Statutory Compliance

S. No	Terms of Reference
1.1	The proposed project shall be given a unique name in consonance with the name submitted to other Government Departments etc. for its better identification and reference.
1.2	Vision document specifying prospective long term plan of the project shall be formulated and submitted.
1.3	Latest compliance report duly certified by the Regional Office of MoEF&CC for the conditions stipulated in the environmental and CRZ clearances of the previous phase(s) for the expansion projects shall be submitted.

2. Details Of The Project And Site

S. No	Terms of Reference
2.1	The project proponent needs to identify minimum three potential sites based on environmental, ecological and economic considerations, and choose one appropriate site having minimum impacts on ecology and environment. A detailed comparison of the sites in this regard shall be submitted.
2.2	Executive summary of the project indicating relevant details along with recent photographs of the proposed site (s) shall be provided. Response to the issues raised during Public Hearing and the written representations (if any), along with a time bound Action Plan and budgetary allocations to

S. No	Terms of Reference
	address the same, shall be provided in a tabular form, against each action proposed.
2.3	Harnessing solar power within the premises of the plant particularly at available roof tops and other available areas shall be formulated and for expansion projects, status of implementation shall also be submitted.
2.4	The geographical coordinates (WGS 84) of the proposed site (plant boundary), including location of ash pond along with topo sheet (1:50,000 scale) and IRS satellite map of the area, shall be submitted. Elevation of plant site and ash pond with respect to HFL of water body/nallah/River and high tide level from the sea shall be specified, if the site is located in proximity to them.
2.5	Layout plan indicating break-up of plant area, ash pond, green belt, infrastructure, roads etc. shall be provided.
2.6	Land requirement for the project shall be optimized and in any case not more than what has been specified by CEA from time to time. Item wise break up of land requirement shall be provided.
2.7	Present land use (including land class/kism) as per the revenue records and State Govt. records of the proposed site shall be furnished. Information on land to be acquired including coal transportation system, laying of pipeline, ROW, transmission lines etc. shall be specifically submitted. Status of land acquisition and litigation, if any, should be provided.
2.8	If the project involves forest land, details of application, including date of application, area applied for, and application registration number, for diversion under FCA and its status should be provided along with copies of relevant documents.
2.9	The land acquisition and R&R scheme with a time bound Action Plan should be formulated and addressed in the EIA report.
2.10	Satellite imagery and authenticated topo sheet indicating drainage, cropping pattern, water bodies (wetland, river system, stream, nallahs, ponds etc.), location of nearest habitations (villages), creeks, mangroves, rivers, reservoirs etc. in the study area shall be provided.
2.11	Topography of the study area supported by toposheet on 1:50,000 scale of Survey of India, along with a large scale map preferably of 1:25,000 scale and the specific information whether the site requires any filling shall be provided. In that case, details of filling, quantity of required fill material, its source, transportation etc. shall be submitted.

3. Ecology Biodiversity And Environment

S. No	Terms of Reference
3.1	A detailed study on land use pattern in the study area shall be carried out including identification of common property resources (such as grazing and community land, water resources etc.) available and Action Plan for its protection and management shall be formulated. If acquisition of grazing land is involved, it shall be ensured that an equal area of grazing land be acquired and developed and detailed plan submitted.
3.2	Location of any National Park, Sanctuary, Elephant/Tiger Reserve (existing as well as proposed),

S. No	Terms of Reference
	migratory routes / wildlife corridor, if any, within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden of the State or an officer authorized by him.
3.3	A mineralogical map of the proposed site (including soil type) and information (if available) that the site is not located on potentially mineable mineral deposit shall be submitted.
3.4	The water requirement shall be optimized (by adopting measures such as dry fly ash and dry bottom ash disposal system, air cooled condenser, concept of zero discharge) and in any case not more than that stipulated by CEA from time to time, to be submitted along with details of source of water and water balance diagram. Details of water balance calculated shall take into account reuse and re-circulation of effluents.
3.5	Water body/Nallah (if any) passing across the site should not be disturbed as far as possible. In case any Nallah / drain is proposed to be diverted, it shall be ensured that the diversion does not disturb the natural drainage pattern of the area. Details of proposed diversion shall be furnished duly approved by the concerned Department of the State.
3.6	It shall also be ensured that a minimum of 500 m distance of plant boundary is kept from the HFL of river system / streams etc. and the boundary of site should also be located 500 m away from railway track and National Highways.
3.7	Hydro-geological study of the area shall be carried out through an institute/ organization of repute to assess the impact on ground and surface water regimes. Specific mitigation measures shall be spelt out and time bound Action Plan for its implementation shall be submitted.
3.8	Detailed Studies on the impacts of the ecology including fisheries of the River/Estuary/Sea due to the proposed withdrawal of water / discharge of treated wastewater into the River/Sea etc shall be carried out and submitted along with the EIA Report. In case of requirement of marine impact assessment study, the location of intake and outfall shall be clearly specified along with depth of water drawl and discharge into open sea.
3.9	Source of water and its sustainability even in lean season shall be provided along with details of ecological impacts arising out of withdrawal of water and taking into account inter-state shares (if any). Information on other competing sources downstream of the proposed project and commitment regarding availability of requisite quantity of water from the Competent Authority shall be provided along with letter / document stating firm allocation of water.
3.10	Detailed plan for rainwater harvesting and its proposed utilization in the plant shall be furnished. In addition, wherever ground water is drawn, PP shall submit detailed plan of Water charging activity to be undertaken.
3.11	Feasibility of near zero discharge concept shall be critically examined and its details submitted.
3.12	Optimization of Cycles of Concentration (COC) along with other water conservation measures in the project shall be specified.
3.13	Plan for recirculation of ash pond water and its implementation shall be submitted.
3.14	Detailed plan for conducting monitoring of water quality regularly with proper maintenance of

S. No	Terms of Reference
	records shall be formulated. Detail of methodology and identification of monitoring points (between the plant and drainage in the direction of flow of surface / ground water) shall be submitted. It shall be ensured that parameter to be monitored also include heavy metals. A provision for long-term monitoring of ground water table using Piezometer shall be incorporated in EIA, particularly from the study area.
3.15	Hazards Characterization: Past incidents of hazard events within 10km radius of project area with detailed analysis of causes and probability of reoccurrence

4. Environmental Baseline Study And Mitigation Measures

S. No	Terms of Reference
4.1	One complete season (critical season) site specific meteorological and AAQ data (except monsoon season) as per latest MoEF&CC Notification shall be collected along with past three year's meteorological data for that particular season for wind speed analysis and the dates of monitoring shall be recorded. The parameters to be covered for AAQ shall include PM10, PM2.5, SO2, NOx, CO and Hg. The location of the monitoring stations should be so decided so as to take into consideration the upwind direction, pre-dominant downwind direction, other dominant directions, habitation and sensitive receptors. There should be at least one monitoring station each in the upwind and in the pre - dominant downwind direction at a location where maximum ground level concentration is likely to occur.
4.2	In case of expansion project, air quality monitoring data of 104 observations a year for relevant parameters at air quality monitoring stations as identified/stipulated shall be submitted to assess for compliance of AAQ Standards (annual average as well as 24 hrs).
4.3	A list of industries existing and proposed in the study area shall be furnished.
4.4	Cumulative impacts of all sources of emissions including handling and transportation of existing and proposed projects on the environment of the area shall be assessed in detail. Details of the Model used and the input data used for modelling shall also be provided. The air quality contours should be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The windrose and isopleths should also be shown on the location map. The cumulative study should also include impacts on water, soil and socio-economics.
4.5	Radio activity and heavy metal contents of coal to be sourced shall be examined and submitted along with laboratory reports.
4.6	Fuel analysis shall be provided. Details of auxiliary fuel, if any, including its quantity, quality, storage etc should also be furnished.
4.7	Quantity of fuel required, its source and characteristics and documentary evidence to substantiate confirmed fuel linkage shall be furnished. The Ministry's Notification dated 02.01.2014 regarding ash content in coal shall be complied. For the expansion projects, the compliance of the existing units to the said Notification shall also be submitted.
4.8	Details of transportation of fuel from the source (including port handling) to the proposed plant and its impact on ambient AAQ shall be suitably assessed and submitted. If transportation entails a long

S. No	Terms of Reference
	distance it shall be ensured that rail transportation to the site shall be first assessed. Wagon loading at source shall preferably be through silo/conveyor belt.
4.9	For proposals based on imported coal, inland transportation and port handling and rail movement shall be examined and details furnished. The approval of the Port and Rail Authorities shall be submitted.
4.10	Details regarding infrastructure facilities such as sanitation, fuel, restrooms, medical facilities, safety during construction phase etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase should be adequately catered for and details furnished.

5. Environmental Management Plan

S. No	Terms of Reference
5.1	EMP to mitigate the adverse impacts due to the project along with item - wise cost of its implementation in a time bound manner shall be specified.
5.2	A Disaster Management Plan (DMP) along with risk assessment study including fire and explosion issues due to storage and use of fuel should be prepared. It should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be invariably provided. Provision for mock drills shall be suitably incorporated to check the efficiency of the plans drawn.
5.3	The DMP so formulated shall include measures against likely Fires/Tsunami/Cyclones/Storm Surges/ Earthquakes etc, as applicable. It shall be ensured that DMP consists of both On-site and Off-site plans, complete with details of containing likely disaster and shall specifically mention personnel identified for the task. Smaller version of the plan for different possible disasters shall be prepared both in English and local languages and circulated widely.
5.4	Details of fly ash utilization plan as per the latest fly ash Utilization Notification of GOI along with firm agreements / MoU with contracting parties including other usages etc. shall be submitted. The plan shall also include disposal method / mechanism of bottom ash along with monitoring mechanism.

6. Green Belt Development

S. No	Terms of Reference
6.1	Detailed scheme for raising green belt of native species of appropriate width (50 to 100 m) and consisting of at least 3 tiers around plant boundary not less than 2000 tree per ha with survival rate of more than 85% shall be submitted. Photographic evidence must be created and submitted periodically including NRSA reports in case of expansion projects. A shrub layer beneath tree layer would serve as an effective sieve for dust and sink for CO ₂ and other gaseous pollutants and hence a stratified green belt should be developed.

S. No	Terms of Reference
6.2	Over and above the green belt, as carbon sink, plan for additional plantation shall be drawn by identifying blocks of degraded forests, in close consultation with the District Forests Department. In pursuance to this the project proponent shall formulate time bound Action Plans along with financial allocation and shall submit status of implementation to the Ministry every six months

7. Socio-economic Activities

S. No	Terms of Reference
7.1	Socio-economic study of the study area comprising of 10 km from the plant site shall be carried out through a reputed institute / agency which shall consist of detail assessment of the impact on livelihood of the local communities.
7.2	Action Plan for identification of local employable youth for training in skills, relevant to the project, for eventual employment in the project itself shall be formulated and numbers specified during construction & operation phases of the Project.
7.3	If the area has tribal population, it shall be ensured that the rights of tribals are well protected. The project proponent shall accordingly identify tribal issues under various provisions of the law of the land.
7.4	A detailed CER plan along with activities wise break up of financial commitment shall be prepared in terms of the provisions OM No. 22-65/2017-IA III dated 30.09.2020. CER component shall be identified considering need based assessment study and Public Hearing issues. Sustainable income generating measures which can help in upliftment of affected section of society, which is consistent with the traditional skills of the people shall be identified.
7.5	While formulating CER schemes it shall be ensured that an in-built monitoring mechanism for the schemes identified are in place and mechanism for conducting annual social audit from the nearest government institute of repute in the region shall be prepared. The project proponent shall also provide Action Plan for the status of implementation of the scheme from time to time and dovetail the same with any Govt. scheme(s). CER details done in the past should be clearly spelt out in case of expansion projects.
7.6	R&R plan, as applicable, shall be formulated wherein mechanism for protecting the rights and livelihood of the people in the region who are likely to be impacted, is taken into consideration. R&R plan shall be formulated after a detailed census of population based on socio economic surveys who were dependant on land falling in the project, as well as, population who were dependant on land not owned by them.
7.7	Assessment of occupational health and endemic diseases of environmental origin in the study area shall be carried out and Action Plan to mitigate the same shall be prepared.
7.8	Occupational health and safety measures for the workers including identification of work related health hazards shall be formulated. The company shall engage full time qualified doctors who are trained in occupational health. Health monitoring of the workers shall be conducted at periodic intervals and health records maintained. Awareness programmes for workers due to likely adverse impact on their health due to working in non-conductive environment shall be carried out and precautionary measures like use of personal equipments etc. shall be provided. Review of impact of various health measures undertaken at intervals of two to three years shall be conducted with an

S. No	Terms of Reference
	excellent follow up plan of action wherever required.

8. Corporate Environment Policy

S. No	Terms of Reference
8.1	Does the company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
8.2	Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
8.3	What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions. Details of this system may be given.
8.4	Does the company has compliance management system in place wherein compliance status along with compliances / violations of environmental norms are reported to the CMD and the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.

9. Miscellaneous

S. No	Terms of Reference
9.1	All the above details should be adequately brought out in the EIA report and in the presentation to the Committee.
9.2	Details of litigation pending or otherwise with respect to project in any Court, Tribunal etc. shall invariably be furnished.
9.3	In case any dismantling of old plants are envisaged, the planned land use & land reclamation of dismantled area to be furnished.

10. Additional Tor For Coastal Based Thermal Power Plants Projects (Tpps)

S. No	Terms of Reference
10.1	Low lying areas fulfilling the definition wetland as per Ramsar Convention shall be identified and clearly demarcated w.r.t the proposed site.
10.2	If the site includes or is located close to marshy areas and backwaters, these areas must be excluded from the site and the project boundary should be away from the CRZ line. Authenticated CRZ map from any of the authorized agencies shall be submitted.
10.3	The soil levelling should be minimum with no or minimal disturbance to the natural drainage of the area. If the minor canals (if any) have to be diverted, the design for diversion should be such that the

S. No	Terms of Reference
	diverted canals not only drains the plant area but also collect the volume of flood water from the surrounding areas and discharge into marshy areas/major canals that enter into creek. Major canals should not be altered but their embankments should be strengthened and desilted.
10.4	Additional soil required for levelling of the sites should as far as possible be generated within the site itself in such a manner that the natural drainage system of the area is protected and improved.
10.5	Marshy areas which hold large quantities of flood water to be identified and shall not be disturbed.
10.6	No waste should be discharged into Creek, Canal systems, Backwaters, Marshy areas and seas without appropriate treatment. Wherever feasible, the outfall should be first treated in a Guard Pond and then only discharged into deep sea (10 to 15 m depth). Similarly, the Intake should be from deep sea to avoid aggregation of fish and in no case shall be from the estuarine zone. The brine that comes out from Desalination Plants (if any) should not be discharged into sea without adequate dilution.
10.7	Mangrove conservation and regeneration plan shall be formulated and Action Plan with details of time bound implementation shall be specified, if mangroves are present in Study Area.
10.8	A common Green Endowment Fund should be created by the project proponents out of EMP budgets. The interest earned out of it should be used for the development and management of green cover of the area.
10.9	Impact on fisheries at various socio economic level shall be assessed.
10.10	An endowment Fishermen Welfare Fund should be created out of CER grants not only to enhance their quality of life by creation of facilities for Fish Landing Platforms / Fishing Harbour / cold storage, but also to provide relief in case of emergency situations such as missing of fishermen on duty due to rough seas, tropical cyclones and storms etc.
10.11	Tsunami Emergency Management Plan shall be prepared wherever applicable and Plan submitted prior to the commencement of construction work.
10.12	There should not be any contamination of soil, ground and surface waters (canals & village pond) with sea water in and around the project sites. In other words necessary preventive measures for spillage from pipelines, such as lining of Guard Pond used for the treatment of outfall before discharging into the sea and surface RCC channels along the pipelines of outfall and intake should be adopted. This is just because the areas around the projects boundaries could be fertile agricultural land used for paddy cultivation.

Additional Terms of Reference

N/A

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Electricity	Electricity	50	Mega Watt (MW)	Through Underground Cable.	NA



The details of the project:-

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

- i. The proposal was earlier considered by the EAC in its 46th meeting held on 4th September, 2023 wherein the proposal was deferred while observing the following:

** ...The EAC noted that another 24 MW Waste to Energy Plant by M/s Delhi MSW Solutions Ltd. is already under operation just adjacent to the boundary of proposed power plant. It was also noted that a proposal (proposal no IA/DL/THE/430633/2023) for expansion of the same operating power plant has also been submitted to the Ministry for adding capacity of 60 MW. From the kml file the committee observed that the proposed location of instant proposal is in notified industrial area as well as very close to civil colonies.*

The proposed project layout also indicates diversion of Natural stream/Nallah. Operation of 110MW waste to energy power plants in the area may invite undesirable environmental consequences. The EAC suggested the PP to re-visit the proposal in terms of its capacity and project site location....."

- ii. In view of the observations raised by the EAC the project proponent vide letter dated 17.10.2023 submitted the following:
 1. Project capacity is revised to 30 MW.
 2. In view of existing Natural Stream/ Nallah, which is crossing through the backside of the proposed project site shall not be disturbed and no change will be made in existing drainage pattern. The revised layout plan of proposed project has been submitted.

It is pertinent to mention that the proposed project site has been earmarked for Solid Waste Management facility by DDA in Zonal Development Plan of Zone "P1" Narela

The Municipal Corporation of Delhi (MCD), in order to meet the target of 100% solid waste processing and scientific disposal of unprocessed quantities of MSW, has planned to develop this Waste Energy (WtE) Project.

iii. Analysis of Alternate Site: -

Three alternate sites were analysed to decide the most environmentally and techno-economically suitable site for establishing the proposed Waste to Energy Project. The Bawana site has been found most suitable due to availability of adequate authorized land with the MCD in DSIDC, Industrial Area, Nearness to water source from PPCL and no fresh water will be drawn up for industrial use except drinking water, and no existence of Ecologically sensitive areas.

iv. The Salient features of the project are as under:

1. Project details:

Name of the Proposal	Proposed Waste to Energy Project 30 MW located at DSIIIC Industrial Area, Sector-5, Bawana, Delhi-110039 by M/s Jindal Urban Waste Management (Bawana) Limited.
Proposal No.	IA/DL/THE/435160/2023
Location	DSIIIC Industrial Area, Sector-5, Bawana, Delhi-110039.
Company's Name	M/s Jindal Urban Waste Management (Bawana) Limited.
Accredited Consultant and certificate no.	Consultant Name: Mantec Consultants Pvt. Ltd. Certificate No.: NABET/EIA/2326/RA 0305 valid up to 20-04-2026.
Inter- state issue involved	Delhi-Haryana State Boundary
Seismic zone	Zone-IV (As per IS 1893:2002)

2. Category details:

Category of the project	Category - A
Capacity	30 MW (3000 TPD of MSW)
Attracts the General Conditions (Yes/No)	Yes
Additional information (if any)	NA

3. Project Details:

If expansion, the details of ECs (including amendments and extension of validity) of existing Units etc.	Not Applicable.
Amendments granted, if Yes details	Not Applicable.
Expansion / Green Field (new): (IPP / Merchant / Captive):	Green Field (New)
If expansion, the date of latest monitoring done by the Regional Office (R.O) of MoEF&CC for compliance of the conditions stipulated in the environmental and CRZ clearances of the previous phases. A certified copy of the latest	Not Applicable.

R.O. monitoring report shall also be submitted.	
Specific webpage address where all EC related documents (including monitoring and compliance related reports/documents) of the specific project under consideration are/will be available. Also contact details of PP's officer responsible for updating this webpage/information.	Specific website of the project will be developed.
Co-ordinates of all four corners of TPP Site:	A 28°47'41.49"N 77°3'42.51"E B 28°47'46.08"N 77°3'36.54"E C 28°47'53.53"N 77°3'43.80"E D 28°47'49.56"N 77°3'48.06"E E 28°47'47.84"N 77°3'47.27"E F 28°47'47.12"N 77°3'47.43"E G 28°47'46.70"N 77°3'47.84"E
Average height of: (a) TPP site, (b) ash pond site etc. above MSL	(a) TPP Site: ~240 m (b) Ash Pond site etc.: Not Applicable
Whether the project is in the Critically Polluted Area (CPA) or within 10 km of CPA. If so, the details thereof.	No
CRZ Clearance	Not Applicable.
Cost of the Project (As per EC and revised). Cost of the proposed activity in the amendment.	Estimated Cost of the Project Rs 660.00 Crore.
Employment Potential for entire project/plant and employment potential for the proposed amendment (specify number of persons and quantitative information).	Employment potential: • <u>During the construction phase</u> Employment (Contract): 570 Nos On Roll: 60 Nos Total (On Roll + Contract): 630 Nos. • <u>During the operational phase</u> Contract: 156 Nos On Roll: 86 Nos Total (On Roll + Contract): 242 Nos.
Benefits of the project (specify quantitative information)	- Handling of 3000 TPD of MSW through an environmentally and scientific approach. - Generation of 30 MW of Green Energy from MSW - Avoidance of sanitary landfills site due to utilization of MSW, thus saving land resource.

4. Electricity generation capacity:

Capacity & Unit Configurations:	30 MW (One TG Set with Two Steam Generators/Boilers)
Generation of Electricity Annually	262800 MWh

5. Details of fuel and Ash disposal

Fuel to be used:	Municipal Solid Waste (MSW)
Quantity of Fuel required per Annum:	10,95,000 MTPA
Coal Linkage / Coal Block: (If Block allotted, status of EC & FC of the Block)	Not Applicable
Details of mode of transportation of coal from coal source to the plant premises along with distances	MSW will be transported to the site through covered trucks/closed compactor by MCD.
Fly Ash Disposal System Proposed	Fly ash will be sent to the secured landfills site designated by MCD.
Ash Pond/ Dyke (Area, Location & Co-ordinates) Average height of area above MSL(m)	Not Applicable.
Quantity of a. Fly Ash to be generated. b. Bottom Ash to be generated:	a. Fly Ash- <3% (Approx.) of Feed. b. Bottom Ash- <17% (Approx.) of Feed
Fly Ash utilization (details)	Fly ash will be sent to the secured landfills site designated by MCD.
Stack Height (m) & Type of Flue	60 meters & Single flue type.

6. Water Requirement:

Source of Water:	- Process water will be met from PPCL /Treated sewage from DJB. - Drinking water will be supplied by DJB
Quantity of water requirement:	- During construction phase: 40 KLD - Domestic water: 10 KLD - During operation: 625 KLD (Industrial Purpose) - Domestic water: 5 KLD

Distance of source of water from Plant:	Approx. 1 Km from PPCL
Mode of Conveyance of water	Through Pipeline
(If source is Sea water) Desalination Plant Capacity	Not Applicable
Mode/Management of Brine:	Not Applicable
Cooling System	ACC (Air Cooled Condenser)

7. Land Area Breakup:

Land Requirement:	15.0 Acres
a) TPP Site	7.84 Acres
b) Ash Pond	NA
c) Township	NA
d) Railway Siding & Others	NA
e) Raw Water Reservoir	NA
f) Green Belt	NA
g) others	4.96 Acres
Total (if expansion state additional land requirement)	2.2 Acres
Status of Land Acquisition:	15.0 Acres (Note: This is Greenfield project, hence no additional land is required).
Status of the project:	Land will be given by MCD.
If under construction phase, please specify the reasons for delay, works completed till date and balance works along with expected date of completion.	Green Field (New)
If under operation phase, date of commissioning (COD) of each unit. Whether the plant was under shutdown since commissioning, details and reasons.	NA
Break-Up of land-use of TPP site:	
a. Total land required for project components.	

b. Private land	15.0 Acres
c. Government land	Nil
d. Forest Land	15.0 Acres
	Nil

8. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/ letter/ Remarks
Reserve Forest/Protected Forest Land	Yes	❖ Ghoga RF: 3.12 Km in North direction
National Park	No	❖ Bawana RF: 1.70 km in North direction.
Wildlife Sanctuary	No	❖ Sultanpur RF: 4.29 km in SW direction
Archaeological sites monuments/historical temples etc	No	❖ There is no National Park, Wildlife Sanctuary etc. in 10 km radius.
Names & distance of National parks, Wildlife sanctuaries, Biosphere reserves, Heritage sites Rivers, Tanks, Reserve Forests etc. Located within 10 Km from the plant boundary.	No	
Additional information (if any)	NA	-

Availability of Schedule-I species in study area: It will be included in the EIA report.

9. Court case details:

Any litigation/ Court Case pertaining to the project	No
Is the proposal under any investigation? If so, details thereof.	No
Any violation case pertaining to the project.	No
Additional information (if any)	NA

2022

ANNEXURE-II
QCI-NABET Certificate

National Accreditation Board for Education and Training

Certificate of Accreditation

Mantec Consultants Pvt Ltd, Noida

D-36, Sector – 6, Noida, Uttar Pradesh-110019

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals- Open cast only	1	1 (a) (i)	A
2	River Valley projects	3	1 (c)	A
3	Thermal power plants	4	1 (d)	A
4	Petroleum refining industry	10	4 (a)	A
5	Chemical Fertilizers	16	5 (a)	A
6	Pesticides industry and pesticide specific intermediates	17	5 (b)	A
7	Isolated storage & handling of Hazardous chemicals	28	-	B
8	Ports, harbours, break waters and dredging	33	7 (e)	A
9	Highways	34	7 (f)	A
10	Building and construction projects	38	8 (a)	B
11	Townships and Area Development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated September 15, 2023 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no QCI/NABET/ENV/ACO/23/2942 dated October 11, 2023. The accreditation needs to be renewed before the expiry date by Mantec Consultants Pvt Ltd, Noida following due process of assessment.



NABET

Sr. Director, NABET
Dated: October 11, 2023

Certificate No.
NABET/EIA/2326/RA 0305

Valid up to
April 20, 2026

Annexure-III
Baseline Report March to May 2023

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COMPANY PROFILE

MANTEC CONSULTANTS PVT. LTD. Provides a Complete range of Environmental and Social Impact Assessment Services with an expert in-house team of Professionals and Associates. Mantec is having a full-fledged Environmental Laboratory duly Recognized by the Ministry of Environment, Forest and Climate Change (MoEF&CC), vide Gazette Notification no. S.O.857 (E) dated February 26, 2018 and by NABL (National Accreditation Board for Testing Calibration Laboratory) vide Certificate TC-6440 Dated 11.06.2022. Mantec also has Received ISO 9001: 2015 Certification as per Certificate no. EI 2206026 dated 18.07.2022 from Innovative SystemCert Pvt. Ltd.

The list of services includes the following:

1. Environmental Impact Assessment Studies and Environment Management Plans for all types of Infrastructure, Mining, Irrigation, River valley Projects and Industrial Projects such as Power Plants, Refineries, Ports, Airports, Highways, Residential Colonies, Hazardous Waste sites, Forestry and Rural Development Projects etc.
2. Social Impact Assessment Studies for all types of Infrastructure, Mining, River Valley Projects and Industrial Projects such as Power Plants, Refineries, Ports, Airports, Highways, Residential Colonies, Hazardous Waste Sites, Forestry and Rural Development Projects etc.
3. Rehabilitation and Resettlement Studies, Resettlement Action Plans for all types of Infrastructure, Mining, River Valley Projects and Industrial Projects such as Power Plants, Refineries, Port, Airport, Highway, Residential Colonies, Hazardous Waste sites etc.
4. Environmental & Social Issues and screening of Infrastructural Projects
5. Safety Audits & Environmental Audits with Energy Conservation Aspects.
6. Environmental monitoring of Air, Water, Noise, Soil, Solid and Hazardous Wastes for all the parameters for industrial Emissions, industrial effluents, Ambient Air etc.
7. Technology Evaluation and Norms Study in Waste Recycling Industry - Distillery and Electroplating.
8. Risk Analysis and Disaster Management Plans.
9. Waste Water Management Both domestic (sewage) and industrial.
10. Ground & Surface Water Treatment and Supply for Rural and Urban Sectors.
11. Design and implementation of Wastewater Treatment Plants including Common Effluent Treatment Plants.

12. Operation and Maintenance of Effluent Treatment Plants.
13. Studies on River, Lake and Forest ecosystems.
14. Watershed and Waste land Management.
15. Studies on Noise Pollution and its Control.
16. Studies on Air Pollution and its Control.
17. Solid Waste including Hazardous and Biomedical Waste Management.
18. Oil Spill Response.
19. Rehabilitation of Mines.
20. Environment Management Systems, Design and Implementation.
21. ISO-14001 Certification.
22. Liaisoning with State Pollution Control Boards and Ministry of Environment and Forests.

1.1 Table: Ambient Air Quality Monitoring Locations

Sl. No.	Project	Monitoring Locations
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
2.		Near CISF Camp Rohini Sec 34 Delhi
3.		Near Vaishno Devi Mandir Khara Kalan Delhi
4.		Near Post Office Ghoga Delhi
5.		Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
6.		Near Bank of Baroda Narela New Delhi
7.		Near Shri Balaji Mandir Sec-11 Rohini Delhi
8.		Near Govt. Animal Hospital Ferozpur Bangar Village Haryana

1.2 Table: Ground Water Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Sanskar Public School Swatantra Nagar, Narela Delhi	Ground Water
2.		Near Bawana 5 CNG Pump Sec 5 Holambi Khurd Delhi	
3.		Near Isel Coco Bawana sec 3 Petrol Pump Path Khurd Delhi	
4.		Med Primary school Sec-24 Rohini Delhi	
5.		M.C.D. Boys Primary School Kanhawala	
6.		Near Rajiv Gandhi Stadium Bawana Village Delhi	
7.		Near Lord Shiv Temple Alipur New Delhi	
8.		Near G. D. Convent School Khara Khurd Delhi	

1.3 Table: Surface Water Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Dreen Dayal Upadhyay Park Prahladpur, Rohini Delhi	Surface Water
2.		Near Hanuman mandir Begam Vihar, Sec 33 Delhi	
3.		Near Shiv Mandir, Khara Kalan Village Delhi	
4.		Icon Tech Machinery Pvt Ltd Bawana Industrial Area Delhi	
5.		Near Bharat Plastic DSIIIDC Industrial Area, Sec 4 Bawana	

6.		Near Madarsa shamsul huda, Yamuna Canal Bawana Delhi	
7.		Near Delhi Jal Board Iradat Nagar Delhi	
8.		Near Khara Sports Club, Khara Khurd Rd Sector 35, rohini	

1.4 Table: Soil Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Deen Dayal Upadhyay Park Prahladpur, Rohini Delhi	Soil
2.		Near Hanuman Mandir Begam Vihar, Sector 33 delhi	
3.		Near shiv Mandir Khara Kalan Village Delhi	
4.		Icon Tech Machinery Pvt Ltd Bawana Sec 3 Industrial Area Delhi	
5.		Near Bharat plastic DSIDC Industrial Area, Sector Delhi	
6.		Near Bank of Baroda Narela New Delhi	
7.		Near Delhi Jal Board Iradat Nagar Delhi	
8.		Near Dada Maldev Sports Ground Darayapur kalan Village Delhi	

1.5 Table: Noise Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi	Noise
2.		Near CISF camp Rohini sec 34 Delhi	
3.		Near Vaishno Devi Mandir Khara Kalan delhi	
4.		Near Brilliant Tutition Centre, Mahatma Gandhi Chowk Sonapat	
5.		Near Park, DSIDC Industrial Area, Sec 1, Bawana	
6.		Near Jai Kuber Plast Co Polymers DSIDC Industrial Area, Narela	
7.		Shri Balaji Mandir Sec-11 Rohini Delhi	
8.		Near Government Animal Hospital Ferozpur Bangar Village Haryana	



MANTEC ENVIRONMENTAL LABORATORY

(Recognized by MoEF&CC-Govt. of India)

D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P.
Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: A23033101
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.03.2023, 09:30AM
End Date & Time of Sampling	: 02.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd, Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. A/jmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	236	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	142	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	23	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.75	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.63	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit


 Manoranjan
 Analyzed by:


 Gaja Nand Mallick
 Quality Manager:

Notes:

- > The results relate only to the sample tested
- > This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- > The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
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****End of Report****



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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: A23033102
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.03.2023, 10:00AM
End Date & Time of Sampling	: 05.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	198	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	119	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	17	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:

Notes:

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****End of Report****

Gaja Nand Mallick
Quality Manager:



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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteeclab@gmail.com

Sample Identification	: A23033103
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.03.2023, 10:30AM
End Date & Time of Sampling	: 09.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	164	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	98	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: A23033104
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.03.2023, 09:30AM
End Date & Time of Sampling	: 12.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	150	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	90	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.82	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.69	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23033105
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.03.2023, 10:00AM
End Date & Time of Sampling	: 16.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	169	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	101	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B[a]P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23033106
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.03.2023, 10:30AM
End Date & Time of Sampling	: 19.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	192	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	115	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.76	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Quality Manager:

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Sample Identification	: A23033107
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.03.2023, 09:30AM
End Date & Time of Sampling	: 23.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	216	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	130	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	12	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.59	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.64	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

[Signature]
Manoranjan
Analyzed by:



[Signature]
Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23033108
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.03.2023, 10:00AM
End Date & Time of Sampling	: 26.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	204	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	122	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	16	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.75	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	Aa	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:
Notes:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033109
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.03.2023, 10:30AM
End Date & Time of Sampling	: 02.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	228	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	137	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	12	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Mishra
Manoranjan
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033110
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.03.2023, 11:00AM
End Date & Time of Sampling	: 05.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	190	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	114	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.56	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph: 0120-4215000, 4215805, Fax: 0120-4215809, e-mail: manteqlab@gmail.com

Sample Identification	: A23033111
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.03.2023, 09:30AM
End Date & Time of Sampling	: 09.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	158	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	95	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.52	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23033112
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.03.2023, 10:00AM
End Date & Time of Sampling	: 12.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	146	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	88	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	24	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033113
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.03.2023, 10:00AM
End Date & Time of Sampling	: 16.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	164	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	98	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	21	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.64	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033114
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.03.2023, 09:30AM
End Date & Time of Sampling	: 19.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	184	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	110	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033115
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.03.2023, 10:00AM
End Date & Time of Sampling	: 23.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	125	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	32	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.67	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.64	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033116
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.03.2023, 10:30AM
End Date & Time of Sampling	: 26.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	197	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	118	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.47	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033117
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.03.2023, 09:30AM
End Date & Time of Sampling	: 02.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	244	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	146	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	13	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	19	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.75	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.54	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033118
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.03.2023, 10:00AM
End Date & Time of Sampling	: 05.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khera Kalan Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	204	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	122	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	7	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033119
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.03.2023, 10:30AM
End Date & Time of Sampling	: 09.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	168	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	101	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	13	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	17	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.57	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033120
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.03.2023, 11:00AM
End Date & Time of Sampling	: 12.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	154	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	92	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033121
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.03.2023, 09:30AM
End Date & Time of Sampling	: 16.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	174	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	104	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit


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 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23033122
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.03.2023, 10:00AM
End Date & Time of Sampling	: 19.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	196	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	118	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	25	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	32	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23033123
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.03.2023, 10:30AM
End Date & Time of Sampling	: 23.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khera Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	35	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.59	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

M. Nand
Manoranjan
Analyzed by:



M. Nand
Gaja Nand Mallick
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Sample Identification	: A23033124
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.03.2023, 09:30AM
End Date & Time of Sampling	: 26.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	125	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	26	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	30	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.54	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23033125
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.03.2023, 10:00AM
End Date & Time of Sampling	: 03.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	94	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	56	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.74	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ug/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Sample Identification	: A23033126
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.03.2023, 10:30AM
End Date & Time of Sampling	: 06.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	172	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	103	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	35	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.69	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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Sample Identification	: A23033127
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.03.2023, 09:30AM
End Date & Time of Sampling	: 10.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	152	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	91	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	23	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.51	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Manoranjan
Analyzed by:

Seal of Lab

G. Nand Mallick
Gaja Nand Mallick
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Sample Identification	: A23033128
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.03.2023, 10:00AM
End Date & Time of Sampling	: 13.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	125	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.63	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB-Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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 Analyzed by:


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 Quality Manager:

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Sample Identification	: A23033129
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.03.2023, 10:30AM
End Date & Time of Sampling	: 17.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	232	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	139	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	37	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.68	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033130
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.03.2023, 11:00AM
End Date & Time of Sampling	: 20.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	205	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	123	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	23	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	33	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.63	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033131
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.03.2023, 09:30AM
End Date & Time of Sampling	: 24.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	84	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	50	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	27	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	32	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.56	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.68	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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 Gaja Nand Mallick
 Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033132
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.03.2023, 10:00AM
End Date & Time of Sampling	: 27.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	100	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	60	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	21	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.52	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₄	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Notes:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033133
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.03.2023, 10:30AM
End Date & Time of Sampling	: 03.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P.03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	164	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	98	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	38	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	48	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.47	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033134
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.03.2023, 09:30AM
End Date & Time of Sampling	: 06.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	118	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	71	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	33	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	41	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.56	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.59	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23033135
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.03.2023, 10:00AM
End Date & Time of Sampling	: 10.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	146	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	88	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	12	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	23	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	35	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.52	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.56	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23033136
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.03.2023, 10:30 AM
End Date & Time of Sampling	: 13.03.2023, 10:30 AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	186	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	112	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	16	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	46	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B[a]P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23033137
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.03.2023, 09:30AM
End Date & Time of Sampling	: 17.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	39	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033138
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.03.2023, 10:00AM
End Date & Time of Sampling	: 20.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	194	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	116	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	33	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.61	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033139
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.03.2023, 10:30AM
End Date & Time of Sampling	: 24.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01-5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	162	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	97	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	37	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.67	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033140
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.03.2023, 11:00AM
End Date & Time of Sampling	: 27.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	152	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	91	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	41	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Ph.0120-4215000, 4215805, Fax,0120-4215809,e-mail:manteclab@gmail.com

Sample Identification	: A23033141
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.03.2023, 09:30AM
End Date & Time of Sampling	: 03.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-63

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	98	100	IS 5182(Part-25):2022
2.	PM _{2.5}	µg/m ³	59	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	48	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033142
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.03.2023, 10:00 AM
End Date & Time of Sampling	: 06.03.2023, 10:00 AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narula New Delhi
Sample Submitted by	: Muhammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	116	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	70	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	19	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.50	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033143
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.03.2023, 10:30AM
End Date & Time of Sampling	: 10.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narula New Delhi
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	146	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	88	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	6	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.69	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. S. S.
Manoranjan
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033144
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd
Start Date & Time of Sampling	: 12.03.2023, 09:30AM
End Date & Time of Sampling	: 13.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	192	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	115	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	19	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	38	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	46	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.64	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.60	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


 Manoranjan
 Analyzed by:


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23033145
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd
Start Date & Time of Sampling	: 16.03.2023, 09:30AM
End Date & Time of Sampling	: 17.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.58	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


 Manoranjan
 Analyzed by:


 Seal of Lab:


 Gaja Nand Mallick
 Quality Manager:

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Ph.0120-4215000, 4215605, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: A23033146
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.03.2023, 10:30AM
End Date & Time of Sampling	: 20.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	198	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	119	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.66	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:

Seal of Lab

Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033147
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.03.2023, 09:30 AM
End Date & Time of Sampling	: 24.03.2023, 09:30 AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	164	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	98	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	21	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033148
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.03.2023, 10:00AM
End Date & Time of Sampling	: 27.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	152	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	91	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	CdL	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


 Manoranjan
 Analyzed by:


 Gaja Nand Mallick
 Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033149
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 03.03.2023, 10:30AM
End Date & Time of Sampling	: 04.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	204	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	122	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	17	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	37	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.57	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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 Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: A23033150
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 06.03.2023, 11:00AM
End Date & Time of Sampling	: 07.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	116	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	70	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033151
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 10.03.2023, 11:00AM
End Date & Time of Sampling	: 11.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	220	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	132	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	21	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	36	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	39	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. N. Manoranjan
Analyzed by:

Seal of Lab:

M. N. Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033152
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 13.03.2023, 11:00AM
End Date & Time of Sampling	: 14.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	186	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	112	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


 Manoranjan
 Analyzed by:


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23033153
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 17.03.2023, 11:00AM
End Date & Time of Sampling	: 18.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	190	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	114	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	19	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	35	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	46	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:

Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033154
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 20.03.2023, 11:00AM
End Date & Time of Sampling	: 21.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	37	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.43	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033155
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 24.03.2023, 09:30AM
End Date & Time of Sampling	: 25.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	156	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	94	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	32	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.74	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033156
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 27.03.2023, 10:00AM
End Date & Time of Sampling	: 28.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	144	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	86	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	36	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.67	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.40	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23033157
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 03.03.2023, 10:30AM
End Date & Time of Sampling	: 04.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	118	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	71	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	18	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	35	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.49	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	L0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. Nand Mallick
 Manoranjan
 Analyzed by:
 Notes:

Seal of Lab

M. Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23033158
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 06.03.2023, 09:30AM
End Date & Time of Sampling	: 07.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	154	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	46	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₄ H ₆	µg/m ³	0.42	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Mancranjan
Analyzed by:

Seal of Lab

Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033159
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 10.03.2023, 10:00AM
End Date & Time of Sampling	: 11.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	186	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	112	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	35	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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 Quality Manager:



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Sample Identification	: A23033160
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 13.03.2023, 10:30AM
End Date & Time of Sampling	: 14.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	192	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	115	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	32	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.44	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23033161
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 17.03.2023, 11:00AM
End Date & Time of Sampling	: 18.03.2023, 11:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	40	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.58	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. Manoranjan
Manoranjan
Analyzed by:



G. Nand Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033162
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 20.03.2023, 09:30AM
End Date & Time of Sampling	: 21.03.2023, 09:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Hosain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 °C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	158	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	95	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	26	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	37	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.84	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.42	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M.H.
Manoranjan
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033163
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 24.03.2023, 10:00AM
End Date & Time of Sampling	: 25.03.2023, 10:00AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 °C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	146	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	88	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.56	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-17):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23033164
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 27.03.2023, 10:30AM
End Date & Time of Sampling	: 28.03.2023, 10:30AM
Date of Receipt	: 31.03.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	125	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.82	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.42	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: W23033101
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Sanskar Public School Swatantra Nagar, Narela Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	6.94	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	21	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.3	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	621	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	194	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	404	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	176	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	52.8	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	10.7	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	70	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.73	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO ₃	mg/l	11.4	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	43	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.66	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2) : 2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2) : 2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.03	0.03	0.2	IS 3025(Part-2) : 2019

25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019
26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2) : 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2) : 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2):2019
29.	Iron as Fe	mg/l	0.013	0.3	No relaxation	IS 3025(Part-2) : 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2):2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2):2019
32.	Sodium as Na	mg/l	62	---	---	IS 3025(Part-45):2019
33.	Potassium as K	mg/l	6	---	---	IS 3025 (Part-38):2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1632 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1632 : 1981

Ajmal
Ajmal Husain
Analyzed by:

Seal of Labr

Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: W23033102
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bawana 5 CNG Pump Sec 5 Holambi Khurd Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.YP-01

TEST REPORT

SL No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.11	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	20	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.6	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	636	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	188	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	414	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	181	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	56.2	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	9.8	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	76	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorus	mg/l	0.78	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO ₃	mg/l	11.8	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	49	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.62	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2) : 2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2) : 2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.03	0.03	0.2	IS 3025(Part-2) : 2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019

26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2): 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2): 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2): 2019
29.	Iron as Fe	mg/l	0.01	0.3	No relaxation	IS 3025(Part-2): 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2): 2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2): 2019
32.	Sodium as Na	mg/l	62	—	—	IS 3025(Part-45): 2019
33.	Potassium as K	mg/l	6	—	—	IS 3025 (Part-38): 2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981

Ajmal
Ajmal Musain
Analyzed by:



Gajendra
Gajendra Mallick
Quality Manager:

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Sample Identification	: W23033103
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near IOCL Coco Bawana sec 3 Petrol Pump Puth Khurd Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.44	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	22	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.4	1	5	IS 3025(Part-13) : 2017
7.	Conductivity	µmhos/cm	691	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	220	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	449	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	198	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	60.0	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	11.6	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	84	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.72	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO ₃	mg/l	11.9	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	44	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.74	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2) : 2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2) : 2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.05	0.05	0.2	IS 3025(Part-2) : 2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019

26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2) : 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2) : 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2):2019
29.	Iron as Fe	mg/l	0.003	0.3	No relaxation	IS 3025(Part-2):2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2):2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2):2019
32.	Sodium as Na	mg/l	66	—	—	IS 3025(Part-45):2019
33.	Potassium as K	mg/l	7	—	—	IS 3025 (Part-38):2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981

Ajmal
Ajmal Husain
Analyzed by:

Seal of Lab:

Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	W23033104
Name & Address of the Customer	Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	30.03.2023
Date of Receipt	31.03.2023
Sample Description	Ground Water
Sample Condition	OK
Start Date of Analysis	31.03.2023
End Date of Analysis	06.04.2023
Date of Reporting	06.04.2023
Sampling Location	Med Primary school Sec-24 Rohini Delhi
Sample Submitted by	Mohammad, Ajmal Husain
Environmental Condition at Lab	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.58	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	20	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.0	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	666	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	210	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	433	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	222	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	62.0	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	16.3	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	78	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.83	—	—	IS 3025 (Part-31):2022
15.	Nitrate as NO ₃	mg/l	10.2	45	No relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	52	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.99	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2):2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2):2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.03	0.03	0.2	IS 3025(Part-2):2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019

26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2) : 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2) : 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2):2019
29.	Iron as Fe	mg/l	0.002	0.3	No relaxation	IS 3025(Part-2) : 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2):2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2):2019
32.	Sodium as Na	mg/l	52	---	---	IS 3025(Part-45):2019
33.	Potassium as K	mg/l	5	---	---	IS 3025 (Part-36):2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981

Ajmal
Ajmal Husain
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215605, Fax, 0120-4215609, e-mail: manteclab@gmail.com

Sample Identification	: W23033105
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: M.C.D. Boys Primary School Kanjhawala
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.36	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	19	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.1	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	696	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	228	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	452	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	244	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	72.0	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	15.6	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	66	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.66	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO ₃	mg/l	13.8	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	55	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.67	1.0	1.5	IS 3025(Part-40) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2) : 2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2) : 2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.03	0.05	0.2	IS 3025(Part-2) : 2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019

26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2): 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2): 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2): 2019
29.	Iron as Fe	mg/l	0.005	0.3	No relaxation	IS 3025(Part-2): 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2): 2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2): 2019
32.	Sodium as Na	mg/l	54	—	—	IS 3025(Part-45): 2019
33.	Potassium as K	mg/l	6	—	—	IS 3025 (Part-58): 2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W23033106
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Rajiv Gandhi Stadium Bawana Village Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-6) : 2017
4.	pH	-	7.28	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	22	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.4	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	480	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	218	200	600	IS 3025(Part-20) : 2019
9.	Total Dissolved Solids	mg/l	698	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	250	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO ₃	mg/l	68.0	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	19.4	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	82	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.73	—	—	IS 3025 (Part-33):2022
15.	Nitrate as NO ₃	mg/l	12.7	45	No relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	38	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.81	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2):2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2):2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.03	0.03	0.2	IS 3025(Part-2):2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2):2019
26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2) : 2019

27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2): 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2):2019
29.	Iron as Fe	mg/l	0.014	0.3	No relaxation	IS 3025(Part-2): 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2):2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2):2019
32.	Sodium as Na	mg/l	45	—	—	IS 3025(Part-45):2019
33.	Potassium as K	mg/l	5	—	—	IS 3025 (Part-36):2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W23033107
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Lord Shiv Temple Alipur New Delhi.
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-6) : 2017
4.	pH	-	7.43	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	$^{\circ}\text{C}$	21	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.3	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	$\mu\text{mhos/cm}$	683	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO_3	mg/l	212	200	600	IS 3025(Part-2) : 2019
9.	Total Dissolved Solids	mg/l	444	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO_3	mg/l	236	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO_3	mg/l	69.6	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	15.1	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	62	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.69	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO_3	mg/l	13.4	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO_4	mg/l	53	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.69	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2) : 2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2) : 2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.03	0.03	0.2	IS 3025(Part-2) : 2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019

26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2) : 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2) : 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2):2019
29.	Iron as Fe	mg/l	<0.3	0.3	No relaxation	IS 3025(Part-2) : 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2):2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2):2019
32.	Sodium as Na	mg/l	54	—	—	IS 3025(Part-45):2019
33.	Potassium as K	mg/l	5	—	—	IS 3025 (Part-38):2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W23033108
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Ground Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near G. D. Convent School Khara Khurd Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEI/MSP/7.3/F-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.35	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	$^{\circ}$ C	22	—	—	IS 3025(Part-19) : 2017
6.	Turbidity	NTU	1.2	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	μ mhos/cm	648	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO_3	mg/l	204	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	232	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO_3	mg/l	134	200	600	IS 3025(Part-21) : 2019
11.	Calcium as CaCO_3	mg/l	64.0	200	100	IS 3025(Part-21) : 2019
12.	Magnesium as Mg	mg/l	18.0	30	100	IS 3025(Part-21) : 2019
13.	Chloride as Cl	mg/l	65	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.57	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO_3	mg/l	11.7	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO_4	mg/l	46	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.57	1.0	1.5	IS 3025(Part-60) : 2019
18.	Total Arsenic as As	mg/l	<0.002	0.01	0.05	IS 3025(Part-2) : 2019
19.	Lead as Pb	mg/l	<0.002	—	—	IS 3025(Part-2) : 2019
20.	Zinc as Zn	mg/l	<0.01	5	15	IS 3025(Part-2) : 2019
21.	Boron as B	mg/l	<0.05	0.5	1.0	IS 3025(Part-2) : 2019
22.	Nickel as Ni	mg/l	<0.002	0.02	No relaxation	IS 3025(Part-2) : 2019
23.	Total Chromium as Cr	mg/l	<0.002	0.05	No relaxation	IS 3025(Part-2) : 2019
24.	Aluminium as Al	mg/l	<0.05	0.03	0.2	IS 3025(Part-2) : 2019
25.	Manganese as Mn	mg/l	<0.02	0.1	0.3	IS 3025(Part-2) : 2019

26.	Copper as Cu	mg/l	<0.002	0.05	1.5	IS 3025(Part-2): 2019
27.	Cadmium as Cd	mg/l	<0.001	0.003	No relaxation	IS 3025(Part-2): 2019
28.	Barium as Ba	mg/l	<0.002	0.7	No relaxation	IS 3025(Part-2): 2019
29.	Iron as Fe	mg/l	0.006	0.3	No relaxation	IS 3025(Part-2): 2019
30.	Silver as Ag	mg/l	<0.002	0.1	No relaxation	IS 3025(Part-2): 2019
31.	Selenium as Se	mg/l	<0.002	0.01	No relaxation	IS 3025(Part-2): 2019
32.	Sodium as Na	mg/l	48	—	—	IS 3025(Part-45): 2019
33.	Potassium as K	mg/l	5	—	—	IS 3025 (Part-38): 2019
34.	Total Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981
35.	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	IS 1622 : 1981


Ajmal Husain
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: W23033109
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Deen Dayal Upadhyay Park Prahladpur, Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.22	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	°C	19	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	1.2	—	IS 3025(Part-10):2017
7.	Conductivity	µmhos/cm	447	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO ₃	mg/l	164	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	290	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	2	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO ₃	mg/l	156	—	IS 3025(Part-21):2019
12.	Calcium as CaCO ₃	mg/l	112	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO ₃	mg/l	44	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	42	—	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.44	—	IS 3025(Part-31):2022
16.	Nitrate as NO ₃	mg/l	7.2	—	IS 3025(Part-34):2019
17.	Sulphate as SO ₄	mg/l	28	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.33	—	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019

26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019
27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.02	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	34	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	4	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	5.6	≥4mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	16	—	IS 3025(Part-44):2019
37.	COD	mg/l	48	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	1405	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	486	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: W23033110
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Hanuman Mandir Begam Vihar, Sec 33 Delhi
Sample Submitted by	: Mohammad. Ajmal Hasain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	---	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	---	IS 3025(Part-4):2021
3.	Taste	-	Not done	---	IS 3025(Part-7&8):2017
4.	pH	-	7.02	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	°C	20	---	IS 3025(Part-19):2017
6.	Turbidity	NTU	2.3	---	IS 3025(Part-10):2017
7.	Conductivity	$\mu\text{mhos/cm}$	428	---	IS 3025(Part-14):2019
8.	Alkalinity as CaCO_3	mg/l	166	---	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	278	---	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	3	---	IS 3025(Part-17):2022
11.	Total Hardness as CaCO_3	mg/l	187	---	IS 3025(Part-21):2019
12.	Calcium as CaCO_3	mg/l	142	---	IS 3025(Part-40):2019
13.	Magnesium as CaCO_3	mg/l	45	---	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	28	---	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.42	---	IS 3025 (Part-31):2022
16.	Nitrate as NO_3	mg/l	9.5	---	IS 3025(Part-34):2019
17.	Sulphate as SO_4	mg/l	30	---	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.41	---	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	---	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	---	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	---	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	---	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	---	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	---	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.03	---	IS 3025(Part-2):2019
26.	Manganese as Mn	mg/l	<0.02	---	IS 3025(Part-2):2019

27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.018	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	20	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	3	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	6.0	≥4mg/l	IS 3025(Part-36):2019
36.	BOD	mg/l	14	—	IS 3025(Part-44):2019
37.	COD	mg/l	46	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	849	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	281	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: W23033111
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Shiv Mandir, Khara Kalan Village Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.24	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	$^{\circ}$ C	21	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	2.6	—	IS 3025(Part-10):2017
7.	Conductivity	μ mhos/cm	359	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO_3	mg/l	115	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	233	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	4	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO_3	mg/l	130	—	IS 3025(Part-21):2019
12.	Calcium as CaCO_3	mg/l	102	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO_3	mg/l	28	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	60	—	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.58	—	IS 3025(Part-31):2022
16.	Nitrate as NO_3	mg/l	8.5	—	IS 3025(Part-34):2019
17.	Sulphate as SO_4	mg/l	26	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.67	—	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019

26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019
27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.016	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	30	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	3	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	5.5	24mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	16	—	IS 3025(Part-44):2019
37.	COD	mg/l	72	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	1170	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	366	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:



Gajja Nand
Gajja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: W23033112
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Icon Tech Machinery Pvt Ltd Bawana Industrial Area Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSIP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.06	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	°C	21	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	2.0	—	IS 3025(Part-10):2017
7.	Conductivity	µmhos/cm	441	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO ₃	mg/l	148	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	287	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	6	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO ₃	mg/l	130	—	IS 3025(Part-21):2019
12.	Calcium as CaCO ₃	mg/l	124	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO ₃	mg/l	30	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	34	—	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.48	—	IS 3025 (Part-31):2022
16.	Nitrate as NO ₃	mg/l	9.9	—	IS 3025(Part-34):2019
17.	Sulphate as SO ₄	mg/l	46	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.50	—	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019

25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019
26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019
27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.015	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	32	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	4	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	5.6	≥4mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	20	—	IS 3025(Part-44):2019
37.	COD	mg/l	84	—	IS 3025(Part-56):2017
38.	Total Coliform	MPN/100ml	1720	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	542	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:

Seal of Lab:

Mallik
Gaja Nand Mallik
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W23033113
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Bharat Plastic DSIDC Industrial Area, Sec 4 Bawana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.21	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	°C	20	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	2.7	—	IS 3025(Part-10):2017
7.	Conductivity	µmhos/cm	456	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO ₃	mg/l	146	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	296	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	3	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO ₃	mg/l	152	—	IS 3025(Part-21):2019
12.	Calcium as CaCO ₃	mg/l	122	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO ₃	mg/l	30	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	42	—	IS 3025(Part-32):2019
15.	Total Phosphorus	mg/l	0.63	—	IS 3025 (Part-31):2022
16.	Nitrate as NO ₃	mg/l	10.2	—	IS 3025(Part-34):2019
17.	Sulphate as SO ₄	mg/l	34	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.49	—	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019

25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019
26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019
27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.019	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	40	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	5	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	6.4	≥4mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	12	—	IS 3025(Part-44):2019
37.	COD	mg/l	40	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	1300	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	426	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing (Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	√
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: W23033114
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Madarsa shamsul huda, Yamuna Canal Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.28	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	$^{\circ}$ C	21	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	2.5	—	IS 3025(Part-10):2017
7.	Conductivity	μ mhos/cm	463	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO_3	mg/l	158	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	301	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	4	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO_3	mg/l	196	—	IS 3025(Part-21):2019
12.	Calcium as CaCO_3	mg/l	140	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO_3	mg/l	56	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	43	—	IS 3025(Part-52):2019
15.	Total Phosphorous	mg/l	0.71	—	IS 3025 (Part-31):2022
16.	Nitrate as NO_3	mg/l	8.4	—	IS 3025(Part-34):2019
17.	Sulphate as SO_4	mg/l	27	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.52	—	IS 3025(Part-63):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019

25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019
26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019
27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.011	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	32	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	4	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	6.2	≥4mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	10	—	IS 3025(Part-44):2019
37.	COD	mg/l	42	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	1161	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	366	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	✓
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: mantedlab@gmail.com

Sample Identification	: W23033115
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Delhi Jal Board Iradat Nagar Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.14	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	$^{\circ}$ C	20	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	1.8	—	IS 3025(Part-10):2017
7.	Conductivity	μ mhos/cm	439	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO ₃	mg/l	132	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	298	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	4	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO ₃	mg/l	182	—	IS 3025(Part-21):2019
12.	Calcium as CaCO ₃	mg/l	138	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO ₃	mg/l	44	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	51	—	IS 3025(Part-32):2019
15.	Total Phosphorus	mg/l	0.39	—	IS 3025(Part-31):2022
16.	Nitrate as NO ₃	mg/l	11.5	—	IS 3025(Part-34):2019
17.	Sulphate as SO ₄	mg/l	32	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.40	—	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019
26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019

27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.011	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	33	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	4	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	5.9	≥4mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	12	—	IS 3025(Part-44):2019
37.	COD	mg/l	46	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	1180	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	348	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	✓
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: W23033116
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Surface Water
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Dada Maldev Sports Ground Darayapur Kalan Village Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.34	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	$^{\circ}$ C	21	—	IS 3025(Part-19):2017
6.	Turbidity	NTU	2.5	—	IS 3025(Part-10):2017
7.	Conductivity	μ mhos/cm	478	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO_3	mg/l	148	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	311	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	4	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO_3	mg/l	180	—	IS 3025(Part-21):2019
12.	Calcium as CaCO_3	mg/l	136	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO_3	mg/l	44	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	46	—	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.52	—	IS 3025 (Part-31):2022
16.	Nitrate as NO_3	mg/l	10.5	—	IS 3025(Part-34):2019
17.	Sulphate as SO_4	mg/l	40	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.54	—	IS 3025(Part-60):2019
19.	Total Arsenic as As	mg/l	<0.002	—	IS 3025(Part-2):2019
20.	Lead as Pb	mg/l	<0.002	—	IS 3025(Part-2):2019
21.	Zinc as Zn	mg/l	<0.01	—	IS 3025(Part-2):2019
22.	Boron as B	mg/l	<0.05	—	IS 3025(Part-2):2019
23.	Nickel as Ni	mg/l	<0.002	—	IS 3025(Part-2):2019
24.	Total Chromium as Cr	mg/l	<0.002	—	IS 3025(Part-2):2019
25.	Aluminium as Al	mg/l	<0.03	—	IS 3025(Part-2):2019
26.	Manganese as Mn	mg/l	<0.02	—	IS 3025(Part-2):2019

27.	Copper as Cu	mg/l	<0.002	—	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.001	—	IS 3025(Part-2):2019
29.	Barium as Ba	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.011	—	IS 3025(Part-2):2019
31.	Silver as Ag	mg/l	<0.002	—	IS 3025(Part-2):2019
32.	Selenium as Se	mg/l	<0.002	—	IS 3025(Part-2):2019
33.	Sodium as Na	mg/l	32	—	IS 3025(Part-45):2019
34.	Potassium as K	mg/l	6	—	IS 3025(Part-45):2019
35.	Dissolved Oxygen	mg/l	6.3	≥4mg/l	IS 3025(Part-38):2019
36.	BOD	mg/l	10	—	IS 3025(Part-44):2019
37.	COD	mg/l	42	—	IS 3025(Part-58):2017
38.	Total Coliform	MPN/100ml	1405	—	IS: 1622-1981
39.	Faecal Coliform	MPN/100ml	440	—	IS: 1622-1981

Designated Best Use	Class	
Drinking Water source without conventional treatment but after disinfection	A	
Outdoor Bathing(Organized)	B	
Drinking water source after conventional treatment & disinfection	C	
Propagation of wild life & Fisheries	D	✓
Irrigation, Industrial cooling, Controlled Waste Disposal	E	
	Below E	

Ajmal
Ajmal Musain
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: mantecslab@gmail.com

Sample Identification	: L23033101
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Project Site
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Soil Fertility Index		Protocol
1.	pH	-	7.12	<4.5	Very low	IS 2720(Part-26):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				7.0 - 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.55	-	-	IS 2720(Part-28):2020
3.	Conductivity	µmhos/cm	238	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	6	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	84	-	-	IS 2720(Part-04):2020
7.	Clay	%	10	-	-	IS 2720(Part-04):2020
8.	Silt	%	6	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	7.46	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	321.66	<100	Low	IS 14684:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	16.80	00-20	Low	IS 5305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	211.68	00-150	Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	4.2	-	-	IS 9497:2020
14.	Organic Matter	%	1.23	-	-	IS 2720(Part-22):2020
15.	Ca	mg/100gm	2.72	-	-	IS 5049:2020
16.	Mg	mg/100gm	1.66	-	-	IS 5049:2020
17.	SAR	-	0.49	-	-	IS 2720

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: L23033102
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Ramky Enviro Engineers Ltd. Sec 5, Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

SL No.	Parameter	Units of Measurement	Value	Soil Fertility Index		Protocol
1.	pH	-	6.22	<4.5	Very low	IS 2720(Part-26):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				8.0 - 8.5	High (Weakly alkaline)	
				>8.5	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.57	-	-	IS 2720(Part-28):2020
3.	Conductivity	µmhos/cm	312	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	5.9	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	88	-	-	IS 2720(Part-04):2020
7.	Clay	%	8	-	-	IS 2720(Part-04):2020
8.	Silt	%	4	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	6.64	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	311.58	<100	Low	IS 14684:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	14.78	00-20	Low	IS 5305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	198.78	00-150	Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	4.5	-	-	IS 9497:2020
14.	Organic Matter	%	1.32	-	-	IS 2720(Part-32):2020
15.	Ca	mg/100gm	2.68	-	-	IS 5949:2020
16.	Mg	mg/100gm	1.24	-	-	IS 5949:2020
17.	SAR	-	0.57	-	-	IS 2720

Prabhat Ranjan Dutta
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: 123033103
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near shiv Mandir Khara Kalan Village Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurement	Value	Soil Fertility Index		Protocol
1.	pH	-	6.8	<4.5	Very low	IS 2720(Part-26):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				7.0 - 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.68	-	-	IS 2720(Part-28):2020
3.	Conductivity	μ mhos/cm	286	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	7.1	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	82	-	-	IS 2720(Part-04):2020
7.	Clay	%	11	-	-	IS 2720(Part-04):2020
8.	Silt	%	7	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	8.34	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	355.49	<100	Low	IS 14684:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	18.82	00-20	Low	IS 3305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ba	221.76	00-150	Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	5.7	-	-	IS 9497:2020
14.	Organic Matter	%	1.42	-	-	IS 2720(Part-22):2020
15.	Ca	mg/100gm	3.34	-	-	IS 5949:2020
16.	Mg	mg/100gm	2.2	-	-	IS 5949:2020
17.	SAR	-	0.50	-	-	IS 2720

Prabhat Ranjan Dutta
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: L23033104
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Chor Pip forest - National forest Kanjhawala Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Soil Fertility Index		Protocol
1.	pH	-	7.2	<4.5	Very low	IS 2720(Part-26):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				7.0 - 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.49	-	-	IS 2720(Part-26):2020
3.	Conductivity	$\mu\text{mhos/cm}$	252	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	6.8	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	78	-	-	IS 2720(Part-04):2020
7.	Clay	%	16	-	-	IS 2720(Part-04):2020
8.	Silt	%	6	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	10.72	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	337.57	<100	Low	IS 14664:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	19.94	00-20	Low	IS 5305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	191.74	00-150	Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	5.4	-	-	IS 9497:2020
14.	Organic Matter	%	1.36	-	-	IS 2720(Part-22):2020
15.	Ca	mg/100gm	3.22	-	-	IS 5949:2020
16.	Mg	mg/100gm	1.8	-	-	IS 5949:2020
17.	SAR	-	0.59	-	-	IS 2720

Prabhat
Prabhat Ranjan Dutta
Analyzed by:

Seal of Lab

Mallik
Gaja Nand Mallick
Quality Manager

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Sample Identification	: L23033105
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Camp Deva Farm - Picnic Ground Alipur New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Soil Fertility Index		Protocol
1.	pH	-	7.35	<4.5	Very low	IS 2720(Part-26):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				11.0- 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.63	-	-	IS 2720(Part-28):2020
3.	Conductivity	µmhos/cm	278	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	6.6	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	85	-	-	IS 2720(Part-04):2020
7.	Clay	%	12	-	-	IS 2720(Part-04):2020
8.	Silt	%	3	-	-	IS 2720(Part-04):2020
9.	CBC	mg/100gm	8.56	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	363.55	<100	Low	IS 14684:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	13.89	00-20	Low	IS 5305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	199.83	00-150	*Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	4.9	-	-	IS 9497:2020
14.	Organic Matter	%	1.28	-	-	IS 2720(Part-22):2020
15.	Ca	mg/100gm	2.99	-	-	IS 9949:2020
16.	Mg	mg/100gm	1.32	-	-	IS 9949:2020
17.	SAR	-	0.61	-	-	IS 2720

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager

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Sample Identification	: I23033106
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Gopal Gau Sadan Harewali New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEI/MSP/7.3/T-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Soil Fertility Index		Protocol
1.	pH	-	6.92	<4.5	Very low	IS 2720(Part-25):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				7.0 - 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.72	-	-	IS 2720(Part-28):2020
3.	Conductivity	µmhos/cm	284	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	6.4	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	54	-	-	IS 2720(Part-04):2020
7.	Clay	%	8	-	-	IS 2720(Part-04):2020
8.	Silt	%	8	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	6.70	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	351.46	<100	Low	IS 14684:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	18.82	00-20	Low	IS 5305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	215.71	00-150	* Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	3.7	-	-	IS 9497:2020
14.	Organic Matter	%	1.35	-	-	IS 2720(Part-2):2020
15.	Ca	mg/100gm	2.84	-	-	IS 5949:2020
16.	Mg	mg/100gm	1.76	-	-	IS 5949:2020
17.	SAR	-	0.42	-	-	IS 2720

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	:	L23033107
Name & Address of the Customer	:	Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	:	30.03.2023
Date of Receipt	:	31.03.2023
Sample Description	:	Soil
Sample Condition	:	OK
Start Date of Analysis	:	31.03.2023
End Date of Analysis	:	06.04.2023
Date of Reporting	:	06.04.2023
Sampling Location	:	Near Vivansh Air & Water Solutions Pralhadpur, Rohini Delhi
Sample Submitted by	:	Mohammad. Ajmal Husain
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Soil Fertility Index		Protocol
1.	pH	-	7.33	<4.5	Very low	IS 2720(Part-26):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				7.0 - 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.59	-	-	IS 2720(Part-26):2021
3.	Conductivity	µmhos/cm	280	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	7.2	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	78	-	-	IS 2720(Part-04):2020
7.	Clay	%	12	-	-	IS 2720(Part-04):2020
8.	Silt	%	10	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	8.74	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	366.46	<100	Low	IS 14664:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	17.92	00-20	Low	IS 5365:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	231.62	00-150	Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	5.2	-	-	IS 9497:2020
14.	Organic Matter	%	1.37	-	-	IS 2720(Part-22):2020
15.	Ca	mg/100gm	3.12	-	-	IS 5949:2020
16.	Mg	mg/100gm	1.58	-	-	IS 5949:2020
17.	SAR	-	0.59	-	-	IS 2720

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager

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Sample Identification	: L23033108
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 30.03.2023
Date of Receipt	: 31.03.2023
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 31.03.2023
End Date of Analysis	: 06.04.2023
Date of Reporting	: 06.04.2023
Sampling Location	: Near Khara Sports Club, Khara Khurd Rd Sec 35, Rohini
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Soil Fertility Index		Protocol
1.	pH	-	7.66	<4.5	Very low	IS 2720(Part-36):2021
				4.5 - 6.0	Low (Acidic)	
				6.0 - 7.0	Moderate (Normal)	
				7.0 - 8.3	High (Weakly alkaline)	
				>8.3	Very High (Alkaline)	
2.	Bulk Density	gm/cm ³	1.62	-	-	IS 2720(Part-28):2020
3.	Conductivity	μ mhos/cm	324	Up to 1.00	Average	IS 14767:2021
				1.00-2.00	Harmful to germination	
				2.01-3.00	Harmful to Crops	
4.	Moisture	%	5.8	-	-	IS 2720(Part-19):2020
5.	Texture	-	Sandy Loam	-	-	IS 2720(Part-04):2020
6.	Sand	%	76	-	-	IS 2720(Part-04):2020
7.	Clay	%	14	-	-	IS 2720(Part-04):2020
8.	Silt	%	10	-	-	IS 2720(Part-04):2020
9.	CEC	mg/100gm	10.48	-	-	IS 2720(Part-24):2020
10.	Nitrogen	kg/ha	358.62	<100	Low	IS 14684:2019
				>100-150	Good	
				>150-300	Better	
11.	Phosphorous	kg/ha	14.78	00-20	Low	IS 5305:2020
				>20-50	Medium	
				>50-80	High	



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12.	Potassium	kg/ha	221.76	00-150	Low	IS 9497:2020
				151-300	Medium	
				>300	High	
13.	Sodium	mg/100gm	6.1	-	-	IS 9497:2020
14.	Organic Matter	%	1.74	-	-	IS 2720(Part-22):2020
15.	Ca	mg/100gm	2.78	-	-	IS 5949:2020
16.	Mg	mg/100gm	2.2	-	-	IS 5949:2020
17.	SAR	-	0.66	-	-	IS 2720

Prabhat
Prabhat Ranjan Dutta
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: N23033101
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 01.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sector 5 Bawana Delhi
Monitored by	: Mohammad, Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	54.8	42.6	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

Manoranjan
 Analyzed by:



Mallik
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: N23033102
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 04.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near CISF Camp Rohini Sector- 34 Delhi
Monitored by	: Muhammad. Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	42.6	39.2	Residential Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

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Sample Identification	: N23033103
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 08.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Monitored by	: Mohammad. Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	40.2	36.8	Silence Zone

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

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 Quality Manager:

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Sample Identification	: N23033104
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 11.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near Brilliant Tution Centre, Mahatma Gandhi Chowk Sonapat
Monitored by	: Mohammad. Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year: 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	50.4	40.5	Commercial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40


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Sample Identification	: N23033105
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 15.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near Park, DSIIDC Industrial Area, Sector 1, Bawana
Monitored by	: Mohammad. Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	52.6	41.5	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

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Sample Identification	: N23033106
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 18.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near Jai Kuber Plast Co Polymers DSIDC Industrial Area, Narela
Monitored by	: Muhammad. Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leq d)	Night (Leq n)	
1.	46.5	40.6	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

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Seal of Lab:

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Quality Manager:

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Sample Identification	:	N23033106
Name & Address of the Customer	:	Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	:	18.03.2023
Date of Reporting	:	06.04.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Near Jai Kuber Plast Co Polymers DSIDC Industrial Area, Narela
Monitored by	:	Mohammad. Ajmal Husain
Test Method	:	IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	46.5	40.6	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

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Sample Identification	:	N23033107
Name & Address of the Customer	:	Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	:	22.03.2023
Date of Reporting	:	06.04.2023
Sample Description	:	Noise Monitoring
Sampling Location	:	Shri Balaji Mandir Sec-11 Rohini Delhi
Monitored by	:	Mohammad. Ajmal Husain
Test Method	:	IS 9989:1981(Reaffirmed Year: 2020)

Monitoring Report

SL No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	43.8	37.8	Silence Zone

Standards of Noise Level

SL No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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Sample Identification	: N23033108
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Monitoring	: 25.03.2023
Date of Reporting	: 06.04.2023
Sample Description	: Noise Monitoring
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Monitored by	: Mohammad, Ajmal Husain
Test Method	: IS 9989:1981(Reaffirmed Year 2020)

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Leqd)	Night (Leqn)	
1.	42.5	36.2	Silence Zone

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

****End of Report****

SL No	Contents	Page No.
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COMPANY PROFILE

MANTEC CONSULTANTS PVT. LTD. Provides a Complete range of Environmental and Social Impact Assessment Services with an expert in-house team of Professionals and Associates. Mantec is having a full-fledged Environmental Laboratory duly Recognized by the Ministry of Environment, Forest and Climate Change (MoEF&CC), vide Gazette Notification no. S.O.857 (E) dated February 26, 2018 and by NABL (National Accreditation Board for Testing Calibration Laboratory) vide Certificate TC-6440 Dated 11.06.2022. Mantec also has Received ISO 9001: 2015 Certification as per Certificate no. EI 2206026 dated 18.07.2022 from Innovative SystemCert Pvt. Ltd.

The list of services includes the following:

1. Environmental Impact Assessment Studies and Environment Management Plans for all types of Infrastructure, Mining, Irrigation, River valley Projects and Industrial Projects such as Power Plants, Refineries, Ports, Airports, Highways, Residential Colonies, Hazardous Waste sites, Forestry and Rural Development Projects etc.
2. Social Impact Assessment Studies for all types of Infrastructure, Mining, River Valley Projects and Industrial Projects such as Power Plants, Refineries, Ports, Airports, Highways, Residential Colonies, Hazardous Waste Sites, Forestry and Rural Development Projects etc.
3. Rehabilitation and Resettlement Studies, Resettlement Action Plans for all types of Infrastructure, Mining, River Valley Projects and Industrial Projects such as Power Plants, Refineries, Port, Airport, Highway, Residential Colonies, Hazardous Waste sites etc.
4. Environmental & Social Issues and screening of Infrastructural Projects
5. Safety Audits & Environmental Audits with Energy Conservation Aspects.
6. Environmental monitoring of Air, Water, Noise, Soil, Solid and Hazardous Wastes for all the parameters for industrial Emissions, industrial effluents, Ambient Air etc.
7. Technology Evaluation and Norms Study in Waste Recycling Industry - Distillery and Electroplating.
8. Risk Analysis and Disaster Management Plans.
9. Waste Water Management Both domestic (sewage) and industrial.
10. Ground & Surface Water Treatment and Supply for Rural and Urban Sectors.
11. Design and implementation of Wastewater Treatment Plants including Common Effluent Treatment Plants.
12. Operation and Maintenance of Effluent Treatment Plants.

13. Studies on River, Lake and Forest ecosystems.
14. Watershed and Waste land Management.
15. Studies on Noise Pollution and its Control.
16. Studies on Air Pollution and its Control.
17. Solid Waste including Hazardous and Biomedical Waste Management.
18. Oil Spill Response.
19. Rehabilitation of Mines.
20. Environment Management Systems, Design and Implementation.
21. ISO-14001 Certification.
22. Liaisoning with State Pollution Control Boards and Ministry of Environment and Forests.

1.1 Table: Ambient Air Quality Monitoring Locations

Sl. No.	Project	Monitoring Locations
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
2.		Near CISP Camp Rohini Sec 34 Delhi
3.		Near Vaishno Devi Mandir Khera Kalan Delhi
4.		Near Post Office Ghoga Delhi
5.		Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
6.		Near Bank of Baroda Narela New Delhi
7.		Near Shri Balaji Mandir Sec-11 Rohini Delhi
8.		Near Govt. Animal Hospital Ferozpur Bangar Village Haryana



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Sample Identification	: A23042801
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.04.2023, 09:30AM
End Date & Time of Sampling	: 02.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	144	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	86	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	33	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.81	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.57	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Analyzed by:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042802
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.04.2023, 10:00AM
End Date & Time of Sampling	: 05.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	234	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	140	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	39	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Analyzed by:

Seal of Lab:

Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042803
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.04.2023, 10:30AM
End Date & Time of Sampling	: 09.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	266	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	160	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.81	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.63	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Seal of Lab

Gaja Nand Mallick
Quality Manager

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manticlab@gmail.com

Sample Identification	: A23042804
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.04.2023, 09:30AM
End Date & Time of Sampling	: 12.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	316	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	190	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	41	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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 Gaja Nand Mallick
 Quality Manager:



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Sample Identification	: A23042805
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.04.2023, 10:00AM
End Date & Time of Sampling	: 16.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohanmad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	324	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	194	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	35	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.82	02(8 hours)	IS 5182(Part-10):2019
8.	CaF ₂	µg/m ³	0.63	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Seal of Lab:

Mallik
Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23042806
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.04.2023, 10:30AM
End Date & Time of Sampling	: 19.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	284	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	170	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	17	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.81	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.75	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042807
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.04.2023, 09:30AM
End Date & Time of Sampling	: 23.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.57P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	370	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	222	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₄ H ₄	µg/m ³	0.59	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Quality Manager:

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Sample Identification	: A23042808
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.04.2023, 10:00AM
End Date & Time of Sampling	: 26.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	272	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	163	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.74	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042809
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.04.2023, 10:30AM
End Date & Time of Sampling	: 02.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	138	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	83	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Analyzed by:

Seal of Lab

Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23042810
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.04.2023, 11:00AM
End Date & Time of Sampling	: 05.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042811
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.04.2023, 09:30AM
End Date & Time of Sampling	: 09.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CJSF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	256	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	154	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.68	02(8 hours)	IS 5182(Part-10):2019
8.	C ₄ H ₈	µg/m ³	0.47	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23042812
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.04.2023, 10:00AM
End Date & Time of Sampling	: 12.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CISE Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	306	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	184	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	7	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	32	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042813
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.04.2023, 10:00AM
End Date & Time of Sampling	: 16.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	314	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	188	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042814
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.04.2023, 09:30AM
End Date & Time of Sampling	: 19.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CIST Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	276	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	166	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-31)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23042815
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.04.2023, 10:00AM
End Date & Time of Sampling	: 23.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	358	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	215	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.58	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.51	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	Au	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

[Signature]
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Sample Identification	: A23042816
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.04.2023, 10:30AM
End Date & Time of Sampling	: 26.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	264	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	158	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	28	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.61	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042817
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.04.2023, 09:30AM
End Date & Time of Sampling	: 02.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	148	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	89	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.57	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042818
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.04.2023, 10:00AM
End Date & Time of Sampling	: 05.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	240	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	144	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	28	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₄ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042819
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.04.2023, 10:30AM
End Date & Time of Sampling	: 09.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	274	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	164	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.51	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042820
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.04.2023, 11:00AM
End Date & Time of Sampling	: 12.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	326	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	196	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	6	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	Au	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23042821
Name & Address of the Customer	: Jindal Urban Waste Management (Rawana) Ltd.
Start Date & Time of Sampling	: 15.04.2023, 09:30AM
End Date & Time of Sampling	: 16.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	334	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	200	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	7	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-17):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042822
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.04.2023, 10:00AM
End Date & Time of Sampling	: 19.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	294	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	176	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.56	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042823
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.04.2023, 10:30AM
End Date & Time of Sampling	: 23.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khera Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	380	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	228	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	16	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.50	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Sample Identification	: A23042824
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.04.2023, 09:30AM
End Date & Time of Sampling	: 26.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	282	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	169	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.72	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.59	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042825
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.04.2023, 10:00AM
End Date & Time of Sampling	: 03.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	143	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	86	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	33	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.62	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.66	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Sample Identification	: A23042826
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.04.2023, 10:30AM
End Date & Time of Sampling	: 06.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	175	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	106	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	17	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	31	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	37	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.63	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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Sample Identification	: A23042827
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.04.2023, 09:30AM
End Date & Time of Sampling	: 10.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	126	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	76	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	35	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.66	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042828
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.04.2023, 10:00AM
End Date & Time of Sampling	: 13.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-43

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	180	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	108	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.54	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.68	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042829
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.04.2023, 10:30AM
End Date & Time of Sampling	: 17.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	158	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	95	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	15	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	41	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.64	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.47	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
 Manoranjan
 Analyzed by:
 Notes:



Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23042830
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.04.2023, 11:00AM
End Date & Time of Sampling	: 20.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	194	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	116	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	14	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	35	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.69	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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 Quality Manager:

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Sample Identification	: A23042831
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.04.2023, 09:30AM
End Date & Time of Sampling	: 24.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	218	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	131	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	33	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.56	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23042832
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.04.2023, 10:00AM
End Date & Time of Sampling	: 27.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	234	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	140	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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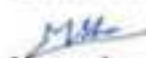
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Sample Identification	: A23042833
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.04.2023, 10:30AM
End Date & Time of Sampling	: 03.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	134	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	80	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	26	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part 25): 2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	39	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.56	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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 Analyzed by:


 Seal of Lab


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23042834
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.04.2023, 09:30AM
End Date & Time of Sampling	: 06.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd, Sec 1 Bawana Delhi
Sample Submitted by	: Mohanmad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.57P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	174	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	104	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	25	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.77	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.44	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

[Signature]
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Seal of Lab

[Signature]
Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23042835
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.04.2023, 10:00AM
End Date & Time of Sampling	: 10.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 °C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	164	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	98	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.65	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Sample Identification	: A23042836
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.04.2023, 10:30 AM
End Date & Time of Sampling	: 13.04.2023, 10:30 AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	134	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	80	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042837
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.04.2023, 09:30AM
End Date & Time of Sampling	: 17.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosliery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	218	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	131	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.64	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23042838
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.04.2023, 10:00AM
End Date & Time of Sampling	: 20.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01-5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	194	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	116	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	7	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
Manoranjan
Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042839
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.04.2023, 10:30AM
End Date & Time of Sampling	: 24.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	214	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	128	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.82	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042840
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.04.2023, 11:00AM
End Date & Time of Sampling	: 27.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	254	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	152	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	6	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.68	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. S. S.
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M. N. M.
Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23042841
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.04.2023, 09:30AM
End Date & Time of Sampling	: 03.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	138	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	83	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.48	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23042842
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.04.2023, 10:00AM
End Date & Time of Sampling	: 06.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	170	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	102	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	7	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	21	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042843
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.04.2023, 10:30AM
End Date & Time of Sampling	: 10.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5,7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	122	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	73	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	18	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	36	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.56	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

[Signature]
Manoranjan
Analyzed by:

[Signature]
Seal of Lab:

[Signature]
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042844
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.04.2023, 09:30AM
End Date & Time of Sampling	: 13.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	174	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	104	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	16	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

M. J. S.
Manoranjan
Analyzed by:



M. J. S.
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042845
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.04.2023, 09:30AM
End Date & Time of Sampling	: 17.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	152	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	91	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042846
Name & Address of the Customer	: Jindal Urban Waste Management (Rawana) Ltd.
Start Date & Time of Sampling	: 19.04.2023, 10:30AM
End Date & Time of Sampling	: 20.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	188	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	113	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.64	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit


 Manoranjan
 Analyzed by:


 Seal of Lab:


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23042847
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.04.2023, 09:30AM
End Date & Time of Sampling	: 24.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	210	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	126	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042848
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.04.2023, 10:00AM
End Date & Time of Sampling	: 27.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	246	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	148	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.64	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	8DL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Analyzed by:



Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042849
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 03.04.2023, 10:30AM
End Date & Time of Sampling	: 04.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	252	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	151	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	12	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	28	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.74	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.34	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


 Manoranjan
 Analyzed by:


 Seal of Lab


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23042850
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 06.04.2023, 11:00AM
End Date & Time of Sampling	: 07.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	224	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	134	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	40	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.44	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Analyzed by:

Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042851
Name & Address of the Customer	: Jindal Urban Waste Management (Bowana) Ltd.
Start Date & Time of Sampling	: 10.04.2023, 11:00AM
End Date & Time of Sampling	: 11.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Conditions at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	286	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	172	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	16	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.42	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL ^a	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL ^a	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL ^a	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL ^a	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL ^a	-	ICP-OES METHOD

^a-Below Detection Limit

Manoranjan
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Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042852
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 13.04.2023, 11:00AM
End Date & Time of Sampling	: 14.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	292	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	175	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	30	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.32	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

#-Below Detection Limit


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Sample Identification	: A23042853
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 17.04.2023, 11:00AM
End Date & Time of Sampling	: 18.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	144	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	86	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.46	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit


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 Seal of Lab:


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23042854
Name & Address of the Customer	: Jindal Urban Waste Management (Rawana) Ltd.
Start Date & Time of Sampling	: 20.04.2023, 11:00AM
End Date & Time of Sampling	: 21.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	152	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	91	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.38	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Analyzed by:

Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042855
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 24.04.2023, 09:30AM
End Date & Time of Sampling	: 25.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	236	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	142	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	18	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	30	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.52	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. Manoranjan
Manoranjan
Analyzed by:

Seal of Lab

G. Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042856
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 27.04.2023, 10:00AM
End Date & Time of Sampling	: 28.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	98	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	59	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	28	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	36	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.56	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.35	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042857
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 03.04.2023, 10:30AM
End Date & Time of Sampling	: 04.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	218	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	131	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23042858
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 06.04.2023, 09:30AM
End Date & Time of Sampling	: 07.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	129	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	77	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	36	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.48	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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Sample Identification	: A23042859
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 10.04.2023, 10:00AM
End Date & Time of Sampling	: 11.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	152	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	91	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	16	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	26	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.44	05	IS 5182(Part-11):2022
9.	B(a)P*	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit


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Sample Identification	: A23042860
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 13.04.2023, 10:30AM
End Date & Time of Sampling	: 14.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	236	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	142	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	30	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.58	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.46	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23042861
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 17.04.2023, 11:00AM
End Date & Time of Sampling	: 18.04.2023, 11:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad, Ajmal Hussain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-63

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	224	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	134	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.70	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23042862
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 20.04.2023, 09:30AM
End Date & Time of Sampling	: 21.04.2023, 09:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	238	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	143	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.82	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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Sample Identification	: A23042863
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 24.04.2023, 10:00AM
End Date & Time of Sampling	: 25.04.2023, 10:00AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	216	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	130	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	7	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	37	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.46	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Analyzed by:

Seal of Lab

Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23042864
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 27.04.2023, 10:30AM
End Date & Time of Sampling	: 28.04.2023, 10:30AM
Date of Receipt	: 28.04.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 28.04.2023
End Date of Analysis	: 04.05.2023
Date of Reporting	: 04.05.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	182	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	109	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	11	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	23	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	38	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager:

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1.	Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi	5-12
2.	Near CISF Camp Rohini Sec 34 Delhi	13-20
3.	Near Vaishno Devi Mandir Khera Kalan Delhi	21-28
4.	Near Post Office Ghoga Delhi	29-36
5.	Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi	37-44
6.	Near Bank of Baroda Narela New Delhi	45-52
7.	Near Shri Balaji Mandir Sec-11 Rohini Delhi	53-60
8.	Near Gov. Animal Hospital Ferozpur Bangar Village Haryana	61-68

COMPANY PROFILE

MANTEC CONSULTANTS PVT. LTD. Provides a Complete range of Environmental and Social Impact Assessment Services with an expert in-house team of Professionals and Associates. Mantec is having a full-fledged Environmental Laboratory duly Recognized by the Ministry of Environment, Forest and Climate Change (MoEF&CC), vide Gazette Notification no. S.O.857 (E) dated February 26, 2018 and by NABL (National Accreditation Board for Testing Calibration Laboratory) vide Certificate TC-6440 Dated 11.06.2022. Mantec also has Received ISO 9001: 2015 Certification as per Certificate no. EI 2206026 dated 18.07.2022 from Innovative SystemCert Pvt. Ltd.

The list of services includes the following:

1. Environmental Impact Assessment Studies and Environment Management Plans for all types of Infrastructure, Mining, Irrigation, River valley Projects and Industrial Projects such as Power Plants, Refineries, Ports, Airports, Highways, Residential Colonies, Hazardous Waste sites, Forestry and Rural Development Projects etc.
2. Social Impact Assessment Studies for all types of Infrastructure, Mining, River Valley Projects and Industrial Projects such as Power Plants, Refineries, Ports, Airports, Highways, Residential Colonies, Hazardous Waste Sites, Forestry and Rural Development Projects etc.
3. Rehabilitation and Resettlement Studies, Resettlement Action Plans for all types of Infrastructure, Mining, River Valley Projects and Industrial Projects such as Power Plants, Refineries, Port, Airport, Highway, Residential Colonies, Hazardous Waste sites etc.
4. Environmental & Social Issues and screening of Infrastructural Projects
5. Safety Audits & Environmental Audits with Energy Conservation Aspects.
6. Environmental monitoring of Air, Water, Noise, Soil, Solid and Hazardous Wastes for all the parameters for industrial Emissions, industrial effluents, Ambient Air etc.
7. Technology Evaluation and Norms Study in Waste Recycling Industry - Distillery and Electroplating.
8. Risk Analysis and Disaster Management Plans.
9. Waste Water Management Both domestic (sewage) and industrial.
10. Ground & Surface Water Treatment and Supply for Rural and Urban Sectors.
11. Design and implementation of Wastewater Treatment Plants including Common Effluent Treatment Plants.
12. Operation and Maintenance of Effluent Treatment Plants.

13. Studies on River, Lake and Forest ecosystems.
14. Watershed and Waste land Management.
15. Studies on Noise Pollution and its Control.
16. Studies on Air Pollution and its Control.
17. Solid Waste including Hazardous and Biomedical Waste Management.
18. Oil Spill Response.
19. Rehabilitation of Mines.
20. Environment Management Systems, Design and Implementation.
21. ISO-14001 Certification.
22. Liaisoning with State Pollution Control Boards and Ministry of Environment and Forests.

1.1 Table: Ambient Air Quality Monitoring Locations

Sl. No.	Project	Monitoring Locations
1.	<i>Environmental Monitoring of Jindal Urban Waste Management (Bawana) Ltd.</i>	Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
2.		Near CISF Camp Rohini Sec 34 Delhi
3.		Near Vaishno Devi Mandir Khera Kalan Delhi
4.		Near Post Office Ghoga Delhi
5.		Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
6.		Near Bank of Baroda Narela New Delhi
7.		Near Shri Balaji Mandir Sec-11 Rohini Delhi
8.		Near Govt. Animal Hospital Ferozpur Bangar Village Haryana



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Sample Identification	: A23053001
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.05.2023, 09:30AM
End Date & Time of Sampling	: 02.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	280	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	168	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	12	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	24	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.66	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
Manoranjan
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053002
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.05.2023, 10:00AM
End Date & Time of Sampling	: 05.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	124	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	74	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	15	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.55	05	IS 5182(Part-11):2022
9.	H(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. S. K.
Manoranjan
Analyzed by:



Mallik
Gaja Nand Mallik
Quality Manager:

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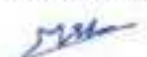
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Ph.0120-4215000, 4215805, Fax, 0120-4215805, e-mail :manteclab@gmail.com

Sample Identification	: A23053003
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.05.2023, 10:30AM
End Date & Time of Sampling	: 09.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	146	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	88	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.69	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit


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 Analyzed by:


 Seal of Lab:


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23053004
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.05.2023, 09:30AM
End Date & Time of Sampling	: 12.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	150	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	90	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	39	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.59	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23053005
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.05.2023, 10:00AM
End Date & Time of Sampling	: 16.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	77	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	46	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.75	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.76	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053006
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.05.2023, 10:30AM
End Date & Time of Sampling	: 19.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	143	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	86	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.67	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.68	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23053007
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.05.2023, 09:30AM
End Date & Time of Sampling	: 23.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	232	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	139	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.84	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.70	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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 Analyzed by:


 Gaja Nand Mallick
 Quality Manager

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Sample Identification	: A23053008
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.05.2023, 10:00AM
End Date & Time of Sampling	: 26.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Tamil Nadu Waste Management Ltd. Sec 5 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	125	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.57	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
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Sample Identification	: A23053009
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.05.2023, 10:30AM
End Date & Time of Sampling	: 02.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISE Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	280	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	168	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	46	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.74	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.51	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit


 Manoranjan
 Analyzed by:


 Seal of Lab


 Gaja Nand Mallick
 Quality Manager

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Sample Identification	: A23053010
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.05.2023, 11:00AM
End Date & Time of Sampling	: 05.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	120	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	72	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	14	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.61	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

M. S. K.
Manoranjan
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Seal of Lab

Mallik
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053011
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.05.2023, 09:30AM
End Date & Time of Sampling	: 09.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	142	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	85	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.61	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Gaja Nand Mallick
Quality Manager:



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Sample Identification	: A23053012
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.05.2023, 10:00AM
End Date & Time of Sampling	: 12.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P.03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	148	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	89	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.63	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.53	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Sample Identification	: A23053013
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.05.2023, 10:00AM
End Date & Time of Sampling	: 16.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	128	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	77	60	IS 5182(Part-24)-2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	14	80	IS 5182(Part-2)-2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	29	80	IS 5182(Part-6)-2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25)-2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m^3	0.54	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.53	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Quality Manager:

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Sample Identification	: A23053014
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.05.2023, 09:30AM
End Date & Time of Sampling	: 19.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	154	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	92	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	26	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	26	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.61	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053015
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.05.2023, 10:00AM
End Date & Time of Sampling	: 23.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	136	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	82	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Analyzed by:


Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23033016
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.05.2023, 10:30AM
End Date & Time of Sampling	: 26.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near CISF Camp Rohini Sec 34 Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	125	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.49	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
Analyzed by:
Notes:

Seal of Lab

Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23053017
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 01.05.2023, 09:30AM
End Date & Time of Sampling	: 02.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	320	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	192	50	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	7	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	26	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	36	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	$\mu\text{g}/\text{m}^3$	0.50	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

M. S. K.
Manoranjan
Analyzed by:
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Quality Manager

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Sample Identification	: A23053018
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 04.05.2023, 10:00AM
End Date & Time of Sampling	: 05.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khera Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	124	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	74	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	14	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053019
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 08.05.2023, 10:30AM
End Date & Time of Sampling	: 09.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	142	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	85	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	32	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₄	$\mu\text{g}/\text{m}^3$	0.59	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Gaja Nand Mallick
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Sample Identification	: A23053020
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 11.05.2023, 11:00AM
End Date & Time of Sampling	: 12.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	150	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	90	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053021
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 15.05.2023, 09:30AM
End Date & Time of Sampling	: 16.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khera Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	126	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	76	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.75	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	Bi(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	KCP-OES METHOD

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Sample Identification	: A23053022
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 18.05.2023, 10:00AM
End Date & Time of Sampling	: 19.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S,7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	154	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	92	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	16	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	26	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.67	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.57	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053023
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 22.05.2023, 10:30AM
End Date & Time of Sampling	: 23.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	136	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	82	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit


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Sample Identification	: A23053024
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 25.05.2023, 09:30AM
End Date & Time of Sampling	: 26.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Vaishno Devi Mandir Khara Kalan Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	125	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	15	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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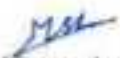
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Sample Identification	: A23053025
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.05.2023, 10:00AM
End Date & Time of Sampling	: 03.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	188	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	113	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	37	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.73	02(8 hours)	IS 5182(Part-10):2019
8.	C ₂ H ₆	µg/m ³	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit


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Sample Identification	: A23053026
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.05.2023, 10:30AM
End Date & Time of Sampling	: 06.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	246	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	148	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	13	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	35	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

M. Nand Mallick
Manoranjan
Analyzed by:



M. Nand Mallick
Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23053027
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.05.2023, 09:30AM
End Date & Time of Sampling	: 10.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	272	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	163	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.52	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:



Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23053028
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.05.2023, 10:00AM
End Date & Time of Sampling	: 13.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	184	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	110	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	25	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	31	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.57	05	IS 5182(Part-11):2022
9.	W(a)P	ng/m ³	BDL ^a	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL ^a	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL ^a	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL ^a	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL ^a	-	ICP-OES METHOD

^a-Below Detection Limit

M. S. Manoranjan
Manoranjan
Analyzed by:



M. N. Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053029
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.05.2023, 10:30AM
End Date & Time of Sampling	: 17.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	240	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	144	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	31	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	37	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.78	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.59	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL ^a	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL ^a	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL ^a	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL ^a	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL ^a	-	ICP-OES METHOD

^a-Below Detection Limit

 Manoranjan
 Analyzed by:


 Seal of Lab


 Gaja Nand Mallick
 Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteqlab@gmail.com

Sample Identification	: A23053030
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.05.2023, 11:00AM
End Date & Time of Sampling	: 20.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	216	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	130	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	7	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	33	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

M. Nand
Manoranjan
Analyzed by:



M. Nand
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053031
Name & Address of the Customer	: Jinda Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.05.2023, 09:30AM
End Date & Time of Sampling	: 24.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	288	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	173	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO _x	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	31	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	37	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

M. S. S.
Manoranjan
Analyzed by:



M. S. S.
Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23053032
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.05.2023, 10:00AM
End Date & Time of Sampling	: 27.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Post Office Ghoga Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	294	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	176	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	18	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	37	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.55	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:

Notes:

Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053033
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.05.2023, 10:30AM
End Date & Time of Sampling	: 03.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	282	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	169	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.74	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.05	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

Manoranjan
Analyzed by:

Seal of Lab

Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053034
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.05.2023, 09:30AM
End Date & Time of Sampling	: 06.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	264	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	158	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	26	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.61	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

Manoranjan
Analyzed by:

Seal of Lab

Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215803, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23053035
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.05.2023, 10:00AM
End Date & Time of Sampling	: 10.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-43

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	274	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	164	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	13	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	24	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	43	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053036
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.05.2023, 10:30AM
End Date & Time of Sampling	: 13.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Muhammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	268	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	161	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	37	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.63	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053037
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.05.2023, 09:30AM
End Date & Time of Sampling	: 17.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 S.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	254	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	152	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.54	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053038
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.05.2023, 10:00AM
End Date & Time of Sampling	: 20.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	264	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	158	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.61	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053039
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.05.2023, 10:30AM
End Date & Time of Sampling	: 24.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	258	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	155	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	20	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.71	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053040
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.05.2023, 11:00AM
End Date & Time of Sampling	: 27.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Mahesh Hosiery Factory Pvt. Ltd. Sec 1 Bawana Delhi
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	264	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	158	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	12	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	32	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	12(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23053041
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 02.05.2023, 09:30AM
End Date & Time of Sampling	: 03.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 °C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	282	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	169	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	10	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	18	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.54	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053042
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 05.05.2023, 10:00AM
End Date & Time of Sampling	: 06.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	334	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	200	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.46	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053043
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 09.05.2023, 10:30AM
End Date & Time of Sampling	: 10.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-63

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	264	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	158	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines-Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Manoranjan
Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager

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Sample Identification	: A23053044
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 12.05.2023, 09:30AM
End Date & Time of Sampling	: 13.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	304	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	182	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.58	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	Il(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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 Analyzed by:


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23053045
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 16.05.2023, 09:30AM
End Date & Time of Sampling	: 17.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	266	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	160	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	11	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	19	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	28	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.64	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053046
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 19.05.2023, 10:30AM
End Date & Time of Sampling	: 20.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	282	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	169	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.65	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.58	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053047
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 23.05.2023, 09:30AM
End Date & Time of Sampling	: 24.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 °C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	274	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	164	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	23	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	30	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.68	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.62	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


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 Gaja Nand Mallick
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Sample Identification	: A23053048
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 26.05.2023, 10:00AM
End Date & Time of Sampling	: 27.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Bank of Baroda Narela New Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp, 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	284	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	170	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	6	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	27	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part-25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit


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 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23053049
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 03.05.2023, 10:30AM
End Date & Time of Sampling	: 04.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	106	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	64	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.46	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Sample Identification	: A23053050
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 06.05.2023, 11:00AM
End Date & Time of Sampling	: 07.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	154	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	92	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	14	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	20	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	46	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.77	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.34	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Sample Identification	: A23053051
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd,
Start Date & Time of Sampling	: 10.05.2023, 11:00AM
End Date & Time of Sampling	: 11.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-II Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	144	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	86	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	8	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	30	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	28	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.30	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Quality Manager:

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Sample Identification	: A23053052
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 13.05.2023, 11:00AM
End Date & Time of Sampling	: 14.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	162	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	97	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.52	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.42	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053053
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 17.05.2023, 11:00AM
End Date & Time of Sampling	: 18.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	182	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	109	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.64	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.35	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*-Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053054
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 20.05.2023, 11:00AM
End Date & Time of Sampling	: 21.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	192	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	115	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	16	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	22	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	34	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.44	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

* - Below Detection Limit

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Analyzed by:



Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053055
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 24.05.2023, 09:30AM
End Date & Time of Sampling	: 25.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	174	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	104	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	5	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	18	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.38	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* -Below Detection Limit

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Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A23053056
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 27.05.2023, 10:00AM
End Date & Time of Sampling	: 28.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Shri Balaji Mandir Sec-11 Rohini Delhi
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	164	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	98	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	16	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	38	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.42	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053057
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 03.05.2023, 10:30AM
End Date & Time of Sampling	: 04.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Farozpur Bangar Village Haryana
Sample Submitted by	: Mohammad, Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	194	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	116	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	24	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	42	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	36	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.46	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

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Sample Identification	: A23053058
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 06.05.2023, 09:30AM
End Date & Time of Sampling	: 07.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

SL No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	218	100	IS 5182(Part-23)-2022
2.	PM _{2.5}	µg/m ³	131	60	IS 5182(Part-24)-2019
3.	SO ₂	µg/m ³	10	80	IS 5182(Part-2)-2022
4.	NO ₂	µg/m ³	21	80	IS 5182(Part-6)-2022
5.	NH ₃	µg/m ³	40	400	IS 5182(Part-25)-2018
6.	O ₃	µg/m ³	38	100(8 hours)	IS 5182(Part-9)-2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10)-2019
8.	C ₆ H ₆	µg/m ³	0.56	05	IS 5182(Part-11)-2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12)-2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22)-2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26)-2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Sample Identification	: A23053059
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 10.05.2023, 10:00AM
End Date & Time of Sampling	: 11.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Hussain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	244	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	146	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	25	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	40	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.76	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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Gaja Nand Mallick
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Sample Identification	: A23053060
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 13.05.2023, 10:30AM
End Date & Time of Sampling	: 14.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	184	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	110	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	8	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.66	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.44	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

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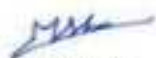
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Sample Identification	: A23053061
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 17.05.2023, 11:00AM
End Date & Time of Sampling	: 18.05.2023, 11:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	196	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	118	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	9	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	26	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	34	400	IS 5182(Part-25):2018
6.	O ₃	µg/m ³	43	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

* - Below Detection Limit


 Manoranjan
 Analyzed by:


 Seal of Lab


 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	: A23053062
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 20.05.2023, 09:30AM
End Date & Time of Sampling	: 21.05.2023, 09:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01.5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	208	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	125	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	16	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	22	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	30	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	34	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.52	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. 1, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Msk
Manoranjan
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

Notes:

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MANTEC ENVIRONMENTAL LABORATORY
(Recognized by MoEF&CC-Govt. of India)
D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P.
Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: A23053063
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 24.05.2023, 10:00AM
End Date & Time of Sampling	: 25.05.2023, 10:00AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Ferozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	218	100	IS 5182(Part-23):2022
2.	PM _{2.5}	µg/m ³	131	60	IS 5182(Part-24):2019
3.	SO ₂	µg/m ³	13	80	IS 5182(Part-2):2022
4.	NO ₂	µg/m ³	23	80	IS 5182(Part-6):2022
5.	NH ₃	µg/m ³	36	400	IS 5182(Part 25):2018
6.	O ₃	µg/m ³	42	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m ³	0.72	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	µg/m ³	0.48	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m ³	BDL*	01	IS 5182(Part-12):2022
10.	Pb	µg/m ³	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m ³	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m ³	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	µg/m ³	BDL*	-	ICP-OES METHOD

*Below Detection Limit

Manoranjan
Analyzed by:

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****End of Report****

Gaja Nand Mallick
Quality Manager:



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D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P.
Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: A23053064
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Start Date & Time of Sampling	: 27.05.2023, 10:30AM
End Date & Time of Sampling	: 28.05.2023, 10:30AM
Date of Receipt	: 30.05.2023
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.05.2023
End Date of Analysis	: 05.06.2023
Date of Reporting	: 05.06.2023
Sampling Location	: Near Government Animal Hospital Farozpur Bangar Village Haryana
Sample Submitted by	: Mohammad. Ajmal Husain
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST REPORT

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	$\mu\text{g}/\text{m}^3$	206	100	IS 5182(Part-23):2022
2.	PM _{2.5}	$\mu\text{g}/\text{m}^3$	124	60	IS 5182(Part-24):2019
3.	SO ₂	$\mu\text{g}/\text{m}^3$	9	80	IS 5182(Part-2):2022
4.	NO ₂	$\mu\text{g}/\text{m}^3$	19	80	IS 5182(Part-6):2022
5.	NH ₃	$\mu\text{g}/\text{m}^3$	38	400	IS 5182(Part 25):2018
6.	O ₃	$\mu\text{g}/\text{m}^3$	44	100(8 hours)	IS 5182(Part-9):2019
7.	CO	mg/m^3	0.62	02(8 hours)	IS 5182(Part-10):2019
8.	C ₆ H ₆	$\mu\text{g}/\text{m}^3$	0.43	05	IS 5182(Part-11):2022
9.	B(a)P	ng/m^3	BDL*	01	IS 5182(Part-12):2022
10.	Pb	$\mu\text{g}/\text{m}^3$	BDL*	1.0	IS 5182(Part-22):2022
11.	Ni	ng/m^3	BDL*	20	IS 5182(Part-26):2020
12.	As	ng/m^3	BDL*	06	CPCB Guidelines Vol. I, 2011
13.	Hg	$\mu\text{g}/\text{m}^3$	BDL*	-	ICP-OES METHOD

*Below Detection Limit

[Signature]
Manoranjan
Analyzed by:

Seal of Lab

[Signature]
Gaja Nand Mallick
Quality Manager

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****End of Report****

Annexure-IV
TCLP Test Report



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ITS TESTING LABORATORY PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

A-114, SECTOR 80, PHASE-2, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

in the field of
TESTING

Certificate Number: TC-11181

Issue Date: 21/11/2022

Valid Until: 20/11/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : ITS Testing Laboratory Private Limited

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer





ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-88, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)
(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)
Website: www.itslab.in, Email: itslab@gmail.com, info@itslab.in, contact@itslab.in
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TEST REPORT

Report Code: SL-130524-11 (Page 1 of 3)

Ash Sample Analysis

Report Code: MS-130524-11

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT(BAWANA) LIMITED.

ADDRESS: DSHDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110029

SAMPLING & ANALYSIS DATA

Sample Received On : 13/05/2024
Sample Collected on : 13/05/2024
Sample Collected by : ITS Lab Representative
Sampling Location : Nearby Project Site WTE Plant/Dump Site.
Sample Description : Bottom Ash
Analysis Duration : 13/05/2024 to 21/05/2024
Standard Test Method : USEPA-1311-2016

Toxicity Characteristics Leaching Procedure (TCLP) TEST Parameters & Standard Limit

Sr. No.	Parameter	Unit	Method	Results	TCLP Regulatory Level (mg/l)
A	Heavy Metals: -				
1.	Arsenic (as As)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	5.0
2.	Barium (as Ba)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	100
3.	Cadmium (as Cd)	mg/L	ITS-SOP/TCLP-09	0.22	1.0
4.	Chromium (Cr)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	5.0
5.	Lead (as Pb)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	5.0
6.	Mercury (as Hg)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	0.2
7.	Zinc (as Zn)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	—
8.	Nickel (as Ni)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	—
9.	Manganese (as Mn)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	—
10.	Titanium (Ti)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	—
11.	Selenium (Se)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	1.0
12.	Silver (Ag)	mg/L	ITS-SOP/TCLP-09	BDL(DL-0.10)	0.5



Terms & Conditions:

1. Test reports are valid only for the samples tested in our laboratory. 2. Samples will destroyed as per quality policy.
3. Any complaints about the report should be communicated in writing within 7 days.
4. Total liability of our laboratory is limited to insured amount.



ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)
 (An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)
 Website: www.itslab.in, Email: itsclab@gmail.com, info@itslab.in, contact@itslab.in
 +91 9911659800, 9305780312, 09958849764

Report Code: SL-130524-10 (Page 2 of 3)

B	Volatile Organics				
13.	Benzene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.10)	0.5
14.	Carbon Tetrachloride	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.10)	0.5
15.	Chlorobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.50)	100.0
16.	Chloroform	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.50)	6.0
17.	1, 4 Dichlorobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.50)	7.5
18.	1,2 Dichloroethane	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.10)	0.5
19.	1,1 Dichloroethylene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.10)	0.7
20.	Methyl Ethyl Ketone	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.5)	200
21.	Tetrachloroethylene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	0.5
22.	Trichloroethylene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	0.5
C	Semi Volatile Organics				
23.	Cresol(Ortho + Meta + Para)	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.50)	200
24.	2,4 Dinitro toluene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	0.13
25.	Hexachlorobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	3.0
26.	Hexachlorobutadiene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	0.5
27.	Hexachloroethane	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	3.0
28.	Nitrobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	2.0
29.	Pentachlorophenol	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.5)	100
30.	Pyridine	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.5)	5.0
31.	2,4,5-Trichlorophenol	mg/L	ITS/SOP/TCLP-07	BDL(DL-1.0)	400
32.	2,4,6-Trichlorophenol	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	2.0
D	Organochlorine Pesticides				
33.	Chlordane	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	0.03
34.	Endrin	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	0.02



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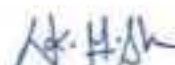
ITS TESTING LABORATORY PRIVATE LIMITED

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Website: www.itslab.in, Email: itsrelab@gmail.com, info@itslab.in, contact@itslab.in
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35.	Heptachlor (& its Epoxide)	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.001)	0.008
36.	Lindane	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	0.4
37.	Methoxychlor	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	10.0
38.	Chlorophenpy Acid Herbicides	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	--
39.	2,4-Dichlorophenoxyacetic acid	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.50)	--

BDL-Below Detection Limit, DL- Detection Limit

****End of Report****


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Report Code: SL-U0824-11(Page 3 of 3)

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TEST REPORT

Report Code: SL-130524-13 (Page 1 of 3)

Ash Sample Analysis

Report Code: MS-130524-13

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT(BAWANA) LIMITED.

ADDRESS: DSIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039

SAMPLING & ANALYSIS DATA

Sample Received On : 13/05/2024
Sample Collected on : 13/05/2024
Sample Collected by : ITS Lab Representative
Sampling Location : Nearby Project Site WTE Plant/Dump Site.
Sample Description : Fly Ash
Analysis Duration : 13/05/2024 to 21/05/2024
Standard Test Method : USEPA-1311-2016

Toxicity Characteristics Leaching Procedure (TCLP) TEST Parameters & Standard Limit.

Sr. No.	Parameter	Unit	Method	Result	TCLP Regulatory Level (mg/l)
A	Heavy Metals: -				
1.	Arsenic (as As)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	5.0
2.	Barium (as Ba)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	100
3.	Cadmium (as Cd)	mg/l.	ITS/SOP/TCLP-09	0.18	1.0
4.	Chromium (Cr)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	5.0
5.	Lead (as Pb)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	5.0
6.	Mercury (as Hg)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	0.2
7.	Zinc (as Zn)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	—
8.	Nickel (as Ni)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	—
9.	Manganese (as Mn)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	—
10.	Titanium (Ti)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	—
11.	Selenium (Se)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.10)	1.0
12.	Silver (Ag)	mg/l.	ITS/SOP/TCLP-09	BDL(DL-0.40)	0.5



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Report Code: SL-130524-13 (Page 2 of 3)

B Volatile Organics					
13.	Benzene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.10)	0.5
14.	Carbon Tetrachloride	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.10)	0.5
15.	Chlorobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.50)	100.0
16.	Chloroform	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.50)	6.0
17.	1,4 Dichlorobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.50)	7.5
18.	1,2 Dichloroethane	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.10)	0.5
19.	1,1 Dichloroethylene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.10)	0.7
20.	Methyl Ethyl Ketone	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.5)	200
21.	Tetrachloroethylene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.1)	0.5
22.	Trichloroethylene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.1)	0.5
C Semi Volatile Organics					
23.	Cresol(Ortho+Meta+Para)	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.50)	200
24.	2,4 Dinitro toluene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.01)	0.13
25.	Hexachlorobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.01)	3.0
26.	Hexachlorobutadiene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.01)	0.5
27.	Hexachloroethane	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.1)	3.0
28.	Nitrobenzene	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.1)	2.0
29.	Pentachlorophenol	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.5)	100
30.	Pyridine	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.5)	5.0
31.	2,4,5-Trichlorophenol	mg/L	ITS/SOP/TCLP-07	BDL(DL=1.0)	400
32.	2,4,6-Trichlorophenol	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.1)	2.0
D Organochlorine Pesticides					
33.	Chlordane	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.01)	0.03
34.	Endrin	mg/L	ITS/SOP/TCLP-07	BDL(DL=0.01)	0.02



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(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

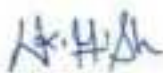
Website: www.itslab.in, Email: itsclab@gmail.com, info@itslab.in, contact@itslab.in

+91 9911688800, 9305780312, 09958848764

35.	Heptachlor (& its Epoxide)	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.001)	0.008
36.	Lindane	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.01)	0.4
37.	Methoxychlor	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	10.0
38.	Chlorophenxy Acid Herbicides	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.1)	--
39.	2,4-Dichlorophenoxyacetic acid	mg/L	ITS/SOP/TCLP-07	BDL(DL-0.50)	--

BDL-Below Detection Limit, DL- Detection Limit

****End of Report****


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AUTHORIZED SIGNATORY

Report Code: SL-130524-13 (Page 3 of 3)

Terms & Conditions

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Annexure-V
Proximate Analysis of MSW Test
Report



ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)
(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)
Website: www.itslab.in, Email: itrlab@gmail.com, info@itslab.in, contact@itslab.in
+91 9911698800, 9306780312, 09958849764

TEST REPORT

Report Code: SW-100524-56 (Page 1 of 2)

Municipal Solid Waste Sample Analysis

Report Code: SW-100524-56

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT(BAWANA) LIMITED.
ADDRESS: DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039

Sampling Location : Shahbad Dairy
Sample Drawn On : 10/05/2024
Sample Collected By : ITS Lab
Sample Received On : 10/05/2024
Sample Description : MSW
Sample Quantity : 2128 Kg
Analysis Duration : 10/05/2024 To 20/05/2024

MUNICIPAL SOLID WASTE

S.No.	Component	TEST METHOD	RESULT	
			Wt. of Component (Kg)	% of Component
A	Physical Composition of MSW- Standard Reference Method: ASTM-D5231-92 (Reapproved-2008)			
1.	Kitchen Waste	ITS/STP/SW-04	32.98	1.55
2.	Vegetable Chhilka/ Maize Chhilka	ITS/STP/SW-04	353.25	16.6
3.	Fruits/ Lemon Chhilka	ITS/STP/SW-04	387.30	18.2
4.	Dry Sugar Canes	ITS/STP/SW-04	21.49	1.01
5.	Coconut Shells/Hair	ITS/STP/SW-04	40.43	1.9
6.	Straw/Hey	ITS/STP/SW-04	0.00	0
7.	Flowers	ITS/STP/SW-04	0.00	0
8.	Green Leaves/Green Matter	ITS/STP/SW-04	61.71	2.9
9.	Dry Leaves/Dry Matter	ITS/STP/SW-04	142.58	6.7
10.	Wooden Pieces	ITS/STP/SW-04	104.06	4.89
11.	Broom	ITS/STP/SW-04	1.70	0.08
12.	Cardboard (Wooden)	ITS/STP/SW-04	16.81	0.79
13.	Paper/Cardboard	ITS/STP/SW-04	85.55	4.02
14.	Textile/Cotton/Jute	ITS/STP/SW-04	181.94	8.55
15.	Rubber /Leather/Tyre	ITS/STP/SW-04	6.60	0.31



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S.No.	Component	TEST METHOD	RESULT	
			Wt. of Component (kg)	% of Component
	Plastic Waste		309.20	14.53
16.	Category-I	ITS/STP/SW-04	18.94	0.89
17.	Category-II	ITS/STP/SW-04	250.04	11.75
18.	Category-III	ITS/STP/SW-04	40.22	1.89
19.	Category-IV	ITS/STP/SW-04	0.00	0
20.	PVC	ITS/STP/SW-04	1.49	0.07
21.	Metal	ITS/STP/SW-04	10.43	0.49
22.	Glass	ITS/STP/SW-04	9.58	0.45
23.	Inert and other	ITS/STP/SW-04	108.32	5.09
24.	Sand/Soil/earth	ITS/STP/SW-04	61.71	2.9
25.	Stones/Brick/Concrete	ITS/STP/SW-04	189.39	8.9
26.	Ceramic and Other	ITS/STP/SW-04	1.06	0.05
27.	Human Hair	ITS/STP/SW-04	0.21	0.01
28.	Batteries	ITS/STP/SW-04	0.00	0
29.	Hazardous Waste	ITS/STP/SW-04	0.00	0

****End of Report***


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Report Code: SW-100524-56 (Page 2 of 2)

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TEST REPORT

Report Code: SW-100524-58 (Page 1 of 1)

Municipal Solid Waste Sample Analysis

Report Code: SW-100524-57

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED,
ADDRESS: DSHDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039

Sampling Location : Dump Site/WTE Plant nearby Project Site
 Sample Drawn On : 10/05/2024
 Sample Collected By : ITS Lab Representative
 Sample Received On : 10/05/2024
 Sample Description : MSW
 Sample Quantity : 10 Kg
 Analysis Duration : 10/05/2024 To 20/05/2024

B. Proximate Analysis of Municipal Solid Waste (MSW)

Standard Reference Method: IS10188-1982(Reaffirmed-2019)

S.No.	Test Parameters	Results	Unit
1.	Gross Calorific Value	2065	Kcal/kg
2.	Net Calorific Value	1651	Kcal/kg
3.	Density (On Received basis)	496	Kg/m ³
4.	Moisture Content (On Received basis)	24.7	% by mass
5.	Ash Content (Dry Basis)	23.6	% by mass
6.	C & N Ratio	32.7	—
7.	Volatile Matter (VM) Dry Basis	0.43	% by mass
8.	Fixed Carbon (Dry Basis)	6.88	% by mass
9.	Total Organic Carbon	39.8	% by mass

B. Ultimate Analysis of Municipal Solid Waste (MSW)

Standard Reference Method: IS10188-1982(Reaffirmed-2019)

S.No.	Test Parameters	Results	Unit
1.	Carbon	15.95	% by mass
2.	Hydrogen	3.46	% by mass
3.	Nitrogen	0.57	% by mass
4.	Sulphur	0.20	% by mass
5.	Oxygen		% by mass

****End of Report****

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TEST REPORT

Report Code: SW-100524-55 (Page 1 of 1)

Municipal Solid Waste Sample Analysis

Report Code: SW-100524-55

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT(BAWANA) LIMITED.

ADDRESS: DSIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039

Sampling Location : Shahbad Dairy
Sample Drawn On : 10/05/2024
Sample Collected By : ITS Lab
Sample Received On : 10/05/2024
Sample Description : MSW
Sample Quantity : 10 Kg
Analysis Duration : 10/05/2024 To 20/05/2024

B. Proximate Analysis of Municipal Solid Waste (MSW) Standard Reference Method: IS 10158-1982(Reaffirmed-2019)			
S.No.	Test Parameters	Results	Unit
1.	Gross Calorific Value	2103	Kcal/kg
2.	Net Calorific Value	1702	Kcal/kg
3.	Density (On Received basis)	488	Kg/m ³
4.	Moisture Content (On Received basis)	27.15	% by mass
5.	Ash Content (Dry Basis)	25.45	% by mass
6.	C & N Ratio	30.9	-
7.	Volatile Matter (VM) Dry Basis	0.78	% by mass
8.	Fixed Carbon (Dry Basis)	5.67	% by mass
9.	Total Organic Carbon	38.6	% by mass
C. Ultimate Analysis of Municipal Solid Waste (MSW) Standard Reference Method: IS 10158-1982(Reaffirmed-2019)			
S.No.	Test Parameters	Results	Unit
1.	Carbon	16.47	% by mass
2.	Hydrogen	3.32	% by mass
3.	Nitrogen	0.45	% by mass
4.	Sulphur	0.21	% by mass
5.	Oxygen	8.76	% by mass

End of Report

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TEST REPORT

Report Code: SW-100524-60 (Page 1 of 1)

Municipal Solid Waste Sample Analysis

Report Code: SW-100524-60

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED,

ADDRESS: DSIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039,

Sampling Location : Bhalswa SLP
Sample Drawn On : 10/05/2024
Sample Collected By : ITS Lab Representative
Sample Received On : 10/05/2024
Sample Description : MSW
Sample Quantity : 10 Kg
Analysis Duration : 10/05/2024 To 20/05/2024

B. Proximate Analysis of Municipal Solid Waste (MSW) Standard Reference Method: IS 10158-1982 (Reaffirmed-2019)			
S.No.	Test Parameters	Results	Unit
1.	Gross Calorific Value	2033	Kcal/kg
2.	Net Calorific Value	1620	Kcal/kg
3.	Density (On Received basis)	478	Kg/m ³
4.	Moisture Content (On Received basis)	22.7	% by mass
5.	Ash Content (Dry Basis)	20.8	% by mass
6.	C & N Ratio	28.7	-
7.	Volatile Matter (VM) Dry Basis	0.71	% by mass
8.	Fixed Carbon (Dry Basis)	3.54	% by mass
9.	Total Organic Carbon	33.9	% by mass
C. Ultimate Analysis of Municipal Solid Waste (MSW) Standard Reference Method: IS 10158-1982 (Reaffirmed-2019)			
S.No.	Test Parameters	Results	Unit
1.	Carbon	15.94	% by mass
2.	Hydrogen	3.34	% by mass
3.	Nitrogen	0.43	% by mass
4.	Sulphur	0.20	% by mass
5.	Oxygen	9.51	% by mass

****End of Report****

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TEST REPORT

Report Code: SW-100524-99 (Page 1 of 2)

Municipal Solid Waste Sample Analysis

Report Code: SW-100524-99

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT(BAWANA) LIMITED.
ADDRESS: DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039.

Sampling Location	: Bhatewa SLF
Sample Drawn On	: 10/05/2024
Sample Collected By	: ITS Lab Representative
Sample Received On	: 10/05/2024
Sample Description	: MSW
Sample Quantity	: 2044 Kg
Analysis Duration	: 10/05/2024 To 20/05/2024

MUNICIPAL SOLID WASTE

S.No.	Component	TEST METHOD	RESULT	
			Wt. of Component (Kg)	% of Component
A	Physical Composition of MSW- Standard Reference Method: ASTM-D5231-92 (Reapproved-2008)			
1.	Kitchen Waste	ITS/STP/SW-04	33.74	1.65
2.	Vegetable Chhikka/ Maize Chhikka	ITS/STP/SW-04	298.57	14.60
3.	Fruits/ Lemon Chhikka	ITS/STP/SW-04	449.90	22.00
4.	Dry Sugar Canes	ITS/STP/SW-04	24.54	1.20
5.	Coconut Shells/Hair	ITS/STP/SW-04	55.22	2.70
6.	Straw/Hay	ITS/STP/SW-04	0.00	0.00
7.	Flowers	ITS/STP/SW-04	0.00	0.00
8.	Green Leaves/Green Matter	ITS/STP/SW-04	60.33	2.95
9.	Dry Leaves/Dry Matter	ITS/STP/SW-04	139.06	6.80
10.	Wooden Pieces	ITS/STP/SW-04	108.39	5.30
11.	Broom	ITS/STP/SW-04	1.43	0.07
12.	Cardboard (Wooden)	ITS/STP/SW-04	14.32	0.70
13.	Paper/Cardboard	ITS/STP/SW-04	106.54	5.21
14.	Textile/Cotton/Jute	ITS/STP/SW-04	174.03	8.51
15.	Rubber /Leather/Tyre	ITS/STP/SW-04		0.25



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Website: www.itslab.in, Email: itsrclab@gmail.com, info@itslab.in, contact@itslab.in

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S.No.	Component	TEST METHOD	RESULT	
			Wt. of Component (kg)	% of Component
	Plastic Waste		266.26	13.02
16.	Category-I	ITS/STP/SW-04	14.72	0.72
17.	Category-II	ITS/STP/SW-04	233.74	11.43
18.	Category-III	ITS/STP/SW-04	17.79	0.87
19.	Category-IV	ITS/STP/SW-04	0.00	0.00
20.	Other Plastic	ITS/STP/SW-04	2.45	0.12
21.	Metal	ITS/STP/SW-04	1.02	0.05
22.	Glass	ITS/STP/SW-04	7.36	0.36
23.	Inert and other	ITS/STP/SW-04	137.02	6.70
24.	Sand/Soil/earth	ITS/STP/SW-04	37.63	1.84
25.	Stones/Brick/Concrete	ITS/STP/SW-04	120.66	5.90
26.	Ceramic and Other	ITS/STP/SW-04	0.61	0.03
27.	Human Hair	ITS/STP/SW-04	0.20	0.01
28.	Batteries	ITS/STP/SW-04	0.00	0.00
29.	Hazardous Waste	ITS/STP/SW-04	0.00	0.00

****End of Report***

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Report Code: SW-100524-89 (Page 2 of 2)

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TEST REPORT

Report Code: SW-100524-57 (Page 1 of 2)

Municipal Solid Waste Sample Analysis

Report Code: SW-100524-57

Issue Date: 21/05/2024

ISSUED To: M/s JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED.
ADDRESS: DSIIDC INDUSTRIAL AREA, SECTOR-5, BAWANA, DELHI-110039

Sampling Location : Dump Site/WTE Plant nearby Project Site
Sample Drawn On : 10/05/2024
Sample Collected By : ITS Lab Representative
Sample Received On : 10/05/2024
Sample Description : MSW
Sample Quantity : 2000 Kg
Analysis Duration : 10/05/2024 To 20/05/2024

MUNICIPAL SOLID WASTE

S.No.	Component	TEST METHOD	RESULT	
			Wt. of Component (Kg)	% of Component
A.	Physical Composition of MSW- Standard Reference Method: ASTM-D5231-92 (Reapproved-2008)			
1.	Kitchen Waste	ITS/STP/SW-04	28.35	1.35
2.	Vegetable Chhulka/ Maize Chhulka	ITS/STP/SW-04	342.72	16.32
3.	Fruits/ Lemon Chhulka	ITS/STP/SW-04	375.90	17.90
4.	Dry Sugar Canes	ITS/STP/SW-04	25.20	1.20
5.	Coconut Shells/Hair	ITS/STP/SW-04	46.20	2.20
6.	Straw/Hey	ITS/STP/SW-04	0.00	0.00
7.	Flowers	ITS/STP/SW-04	0.00	0.00
8.	Green Leaves/Green Matter	ITS/STP/SW-04	59.43	2.83
9.	Dry Leaves/Dry Matter	ITS/STP/SW-04	151.20	7.20
10.	Wooden Pieces	ITS/STP/SW-04	87.15	4.15
11.	Broom	ITS/STP/SW-04	1.26	0.06
12.	Cardboard (Wooden)	ITS/STP/SW-04	19.95	0.95
13.	Paper/Cardboard	ITS/STP/SW-04	104.79	4.99
14.	Textile/Cotton/Jute	ITS/STP/SW-04	181.44	8.64
15.	Rubber /Leather/Tyre	ITS/STP/SW-04	3.09	0.19



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S.No.	Component	TEST METHOD	RESULT	
			Wt. of Component (kg)	% of Component
	Plastic Waste		252.21	12.01
16.	Category-I	ITS/STP/SW-04	16.59	0.79
17.	Category-II	ITS/STP/SW-04	215.88	10.28
18.	Category-III	ITS/STP/SW-04	19.74	0.94
19.	Category-IV	ITS/STP/SW-04	0.00	0.00
20.	Other Plastic	ITS/STP/SW-04	1.47	0.07
21.	Metal	ITS/STP/SW-04	9.24	0.44
22.	Glass	ITS/STP/SW-04	12.60	0.60
23.	Inert and other	ITS/STP/SW-04	132.30	6.30
24.	Sand/Soil/earth	ITS/STP/SW-04	56.70	2.70
25.	Stones/Brick/Concrete	ITS/STP/SW-04	206.43	9.83
26.	Ceramic and Other	ITS/STP/SW-04	0.84	0.04
27.	Human Hair	ITS/STP/SW-04	0.21	0.01
28.	Batteries	ITS/STP/SW-04	0.00	0.00
29.	Hazardous Waste	ITS/STP/SW-04	0.00	0.00

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Report Code: SW-100524-S7 (Page 2 of 2)

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Annexure-VI
Current Bidder Consent
Letter



Ref No: JUL/MCD/WTE/2024-23/01

Date: 22-04-2024

Executive Engineer (DEMS) HQ,
Room No. 1901, 19th Floor, E-1 Block,
Dr. S.P.M. Civic Center, Minla Road,
New Delhi-110002

Subject: Extension of Bid Validity w.r.t RFP For Setting up of Municipal Solid Waste (MSW) to Energy Facility at Narela-Bawana, Delhi.

Reference: NIT No: EE/WIE/DEMS/TC/2022-23/01, Dated: 21/10/2022.
JUL/MCD/WTE/2022-23/006, Dated: 13/03/2023
JUL/MCD/WTE/2022-23/009, Dated: 11/09/2023
JUL/MCD/WTE/2022-23/010, Dated: 01/11/2023.
EE/WIE/DEMS/2024-23/D-01, Dated: 02/04/2024.

Dear Sir,

With reference to caption subject, Validity of bid submitted against NIT No. EE/WIE/DEMS/TC/2022-23/01 was extended by JITF Urban Infrastructure Ltd. till 13th June 2023 vide letter No. JUL/MCD/WTE/2022-23/006 and subsequently till 12th December 2023 vide letter No. JUL/MCD/WTE/2022-23/009 and till 07th May 2024 vide letter No. JUL/MCD/WTE/2022-23/010.

JITF Urban Infrastructure Ltd., having participated in the said tender, is further asked by your good office vide letter no. EE/WIE/DEMS/2024-23/D-01 Dated: 02/04/2024 to extend the validity by another 6 months.

JITF Urban Infrastructure Ltd., having participated in the said tender, hereby extends the validity of our submitted bid till 03rd November 2024, in line with the validity of BG (10090100018542) which is also extended till 03rd November 2024.

We also request you to issue us LOI at the earliest.

Thanking you

For JITF URBAN INFRASTRUCTURE LTD.


Authorized Signatory

Enclosure: Original BG No.:10090100018542, BG Amount: 5,94,26,000.00, BG Expiry Date: 03/11/2024

Annexure-VII
Wildlife Conservation Plan

WILDLIFE CONSERVATION PLAN

(Schedule – I Species as per WPA 2022)

FOR

WASTE TO ENERGY THERMAL POWER PROJECT OF CAPACITY 30 MW

AT

VILLAGES BADLI, SUB-DISTRICT ALIPUR,

DISTRICT NORTH DELHI- 110039

(PROJECT OR ACTIVITY OF SCHEDULE 1(d), CATEGORY-A)



PROJECT PROPONENT



M/s JINDAL URBAN WASTE MANAGEMENT (BAWANA) LIMITED

Prepared by



MANTEC CONSULTANTS PVT.LTD.

(ISO Accredited EIA Consultant)

(NABET Accredited EIA Consultant)

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Ph. 0120-4215000, 0120-4215807 Fax. 0120-4215809,

E-mail: environment@mantecconsultants.com

Website: <http://www.mantecconsultants.com>

July, 2024

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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 (MoEF&CC), New Delhi and according to the Standards Terms of Reference (ToRs) issued by MoEF&CC, 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 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 (MoEF&CC); 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 3600 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 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 improve the wildlife endowment of the area and thereby improving the biodiversity.

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)⁰ 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 3000 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 (MoEF&CC); 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. The 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 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 DSIIIDC 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 (JUWML)
3	Capacity	30 MW
4	General Conditions	Delhi-Haryana State boundary is located at the distance of 4.48 Km in NNW direction.
5	Site Location	
	Village	Bawana
	District	North Delhi
	State	Delhi
6	Land Requirement	15 Acres
7	Fuel (MSW)	3000 TPD of MSW
8	Water Requirement	- During Construction phase-40 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: Domestic water of approx. 10 KLD during

		construction and approx. 7 KLD during operation phase will be required. This water will be supplied by DJS.
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 LOCATION

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

1. Convenient place in DSIIIC Industrial Area, located in North Delhi.
2. Availability of all basic facilities like water, electricity, manpower 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 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 herpetofauna (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.

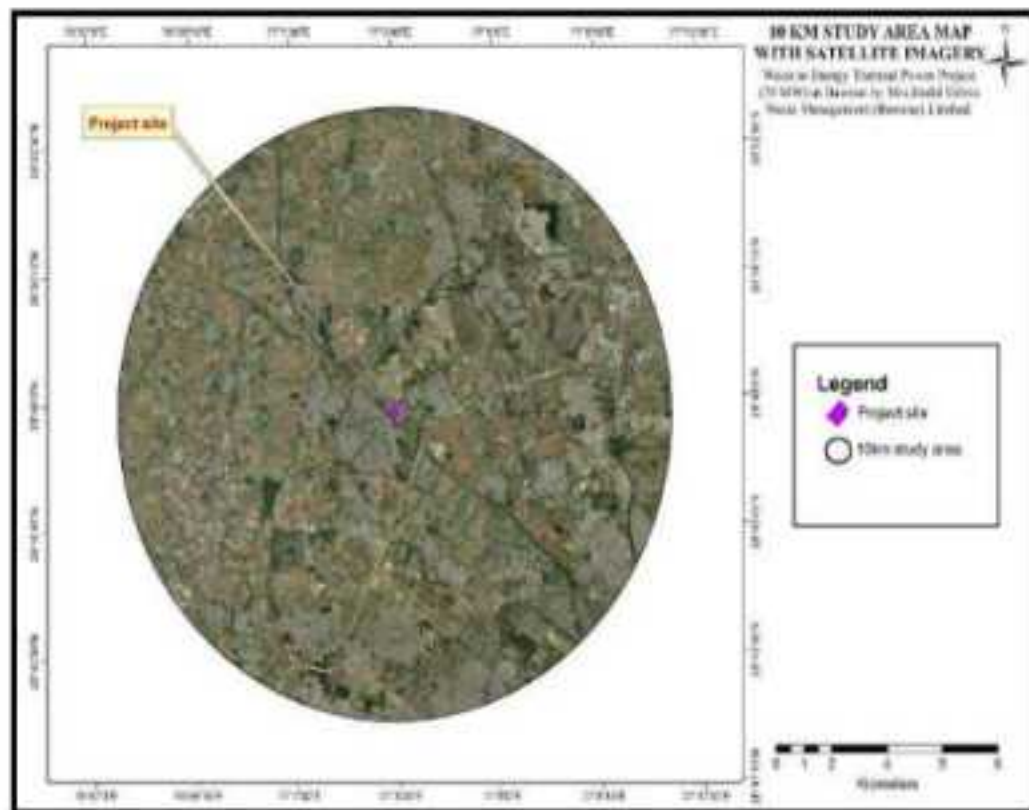


Figure 2.1: Google Earth image showing project site and surrounding within 10km for Waste to Energy Plant, Bawana

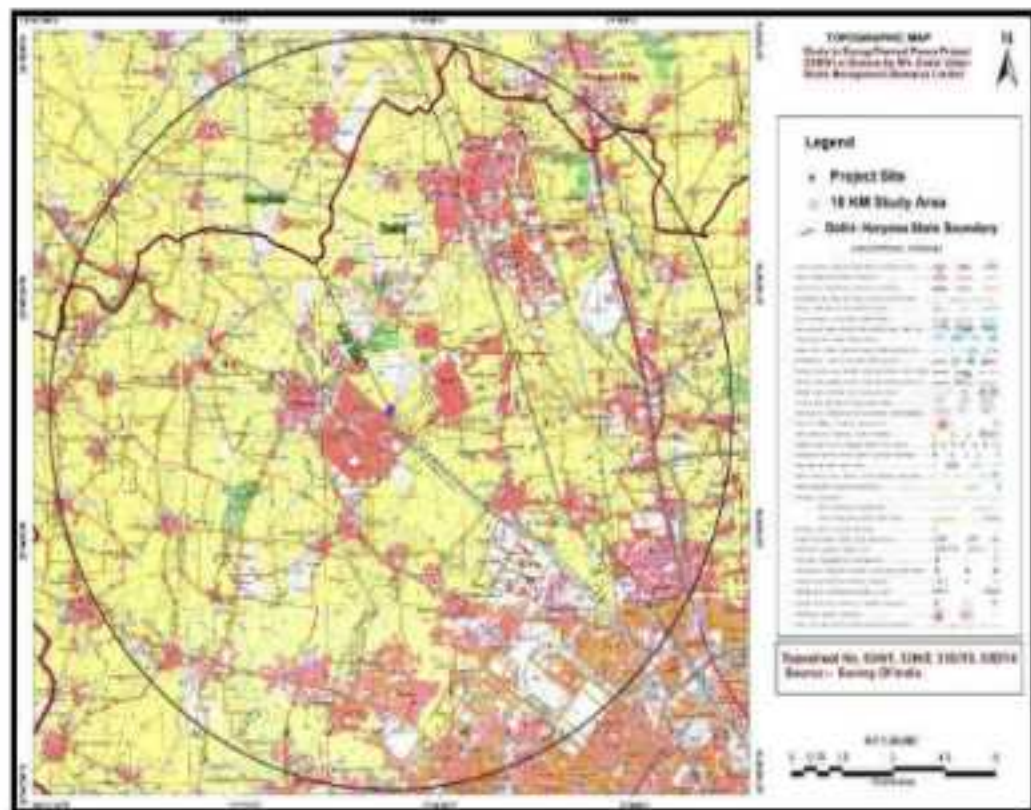


Figure 2.2: Topographic Map Study Area within 10km for Waste to Energy Plant, Bawana

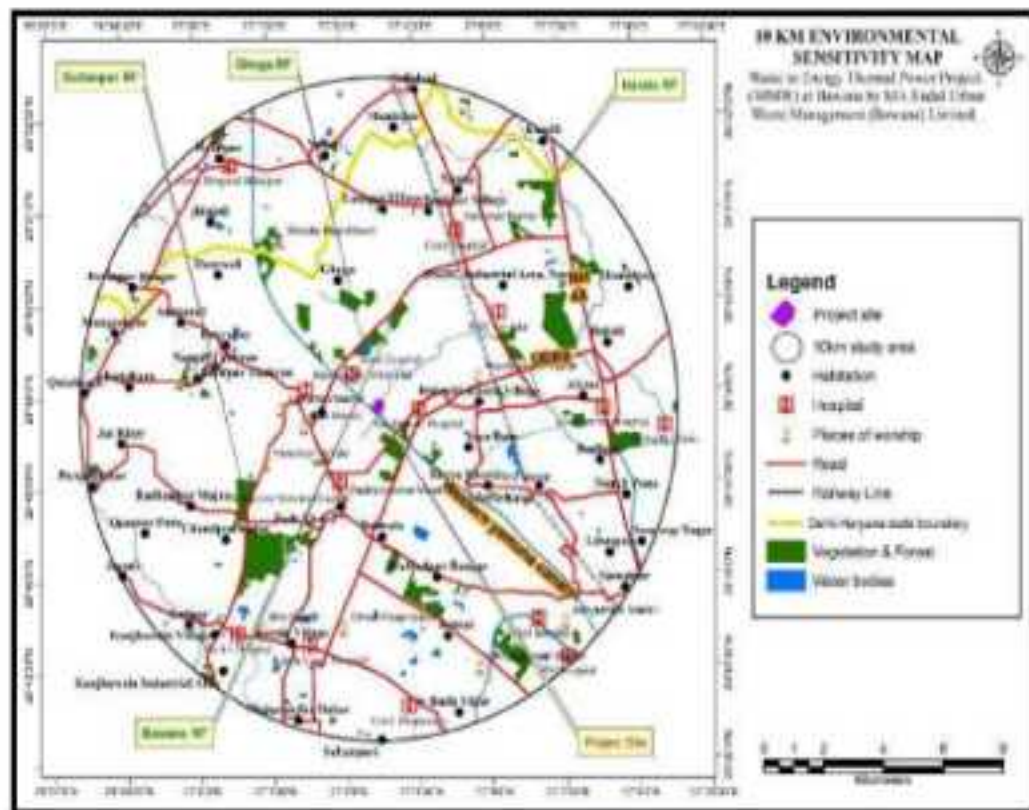


Figure 2.3: Environmental Sensitivity Map Study Area within 10km from Waste to Energy Plant, Bawana

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. Omnia 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.

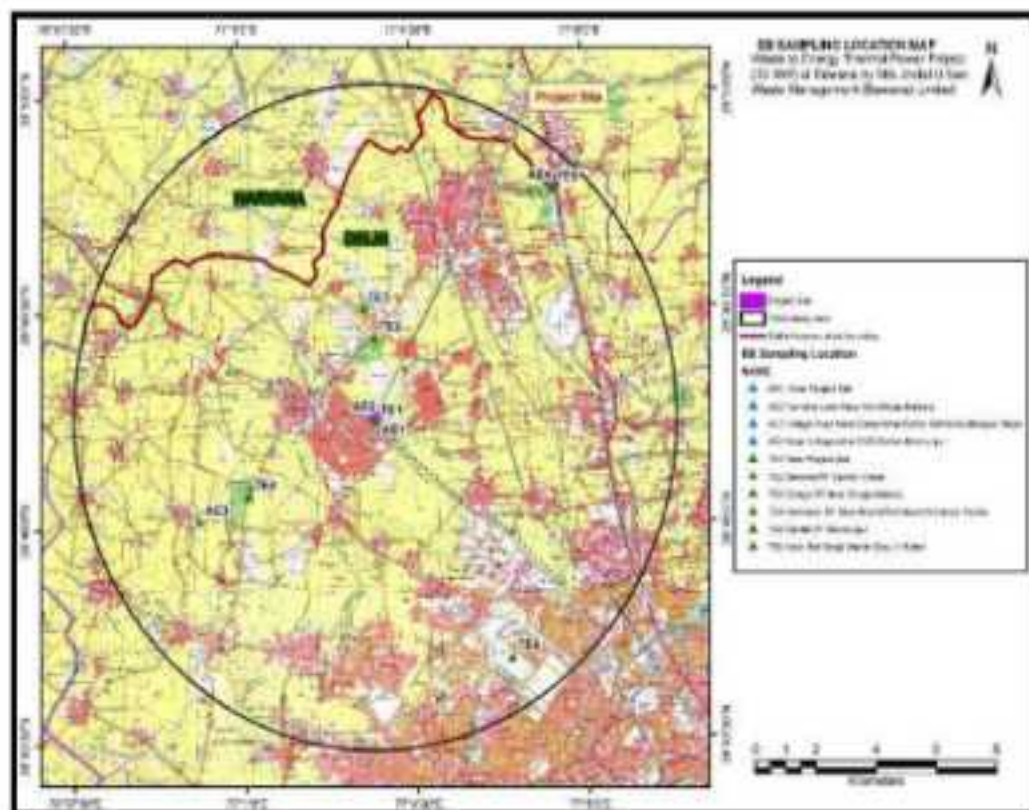


Figure 2.4 Sampling Locations for Terrestrial and Aquatic Sampling in the Study Area

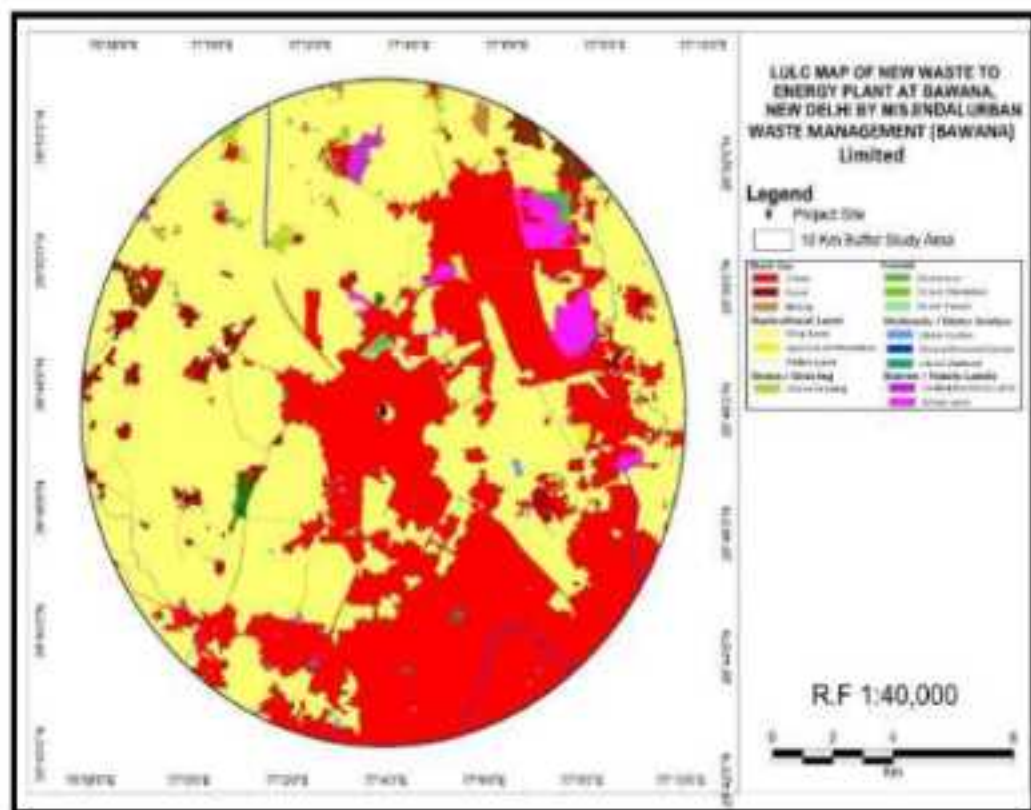


Figure 2.5: Land Use Classification Map of Project Site & Study Area based on Satellite imagery around 10 km Study Area for Waste to Energy Project, Bawana

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	13375.621	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 areas 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

The vegetation of the 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*, *Asadiraakta indica*, *Eucalyptus* sp., *Dalbergia sissoo*, *Moringa oleifera*, *Ailanthia 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 economic as well as ecological reasons.



Figure 2.6: 1. Agricultural fields with Plantation



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

Floral Species Found in Study Area

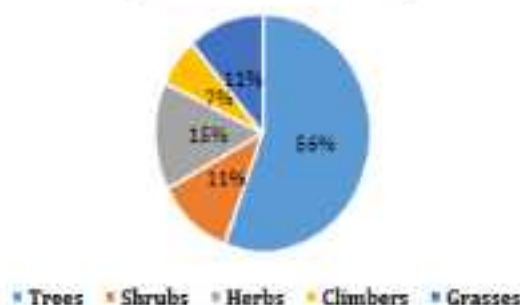


Figure 2.12: Pie diagram showing % distribution of floral species

2.3.5 Village and urban Survey

The study area habitations are spread over the sub districts Narela and Saraswati Vihar of North district, National Capital Territory (NCT) of Delhi and sub districts Sonapat and Kharkhoda of Sonapat 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	Khara Kalan (CT)		*
4	Sanoth villages	*	*
4	Khara Khurd (CT)		*
5	Budhan Pur Village	*	*
6	Nolambi Khurd Village		*
7	Salah Pur Majra Village		*
8	Chand Pur Village	*	*
9	Rohini Sector 11	*	*
10	Mamoor Pur Village	*	*

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, literature etc. Mammals (5), Birds (33), Reptilians (3) and butterflies (3) were recorded from the study area. As per WFA 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.	Cotia	<i>Osteobrama cotia</i>	Cyprinidae
2.	Gangetic Mystus	<i>Mystus cavasius</i>	Bagrifidae
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 cover 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.

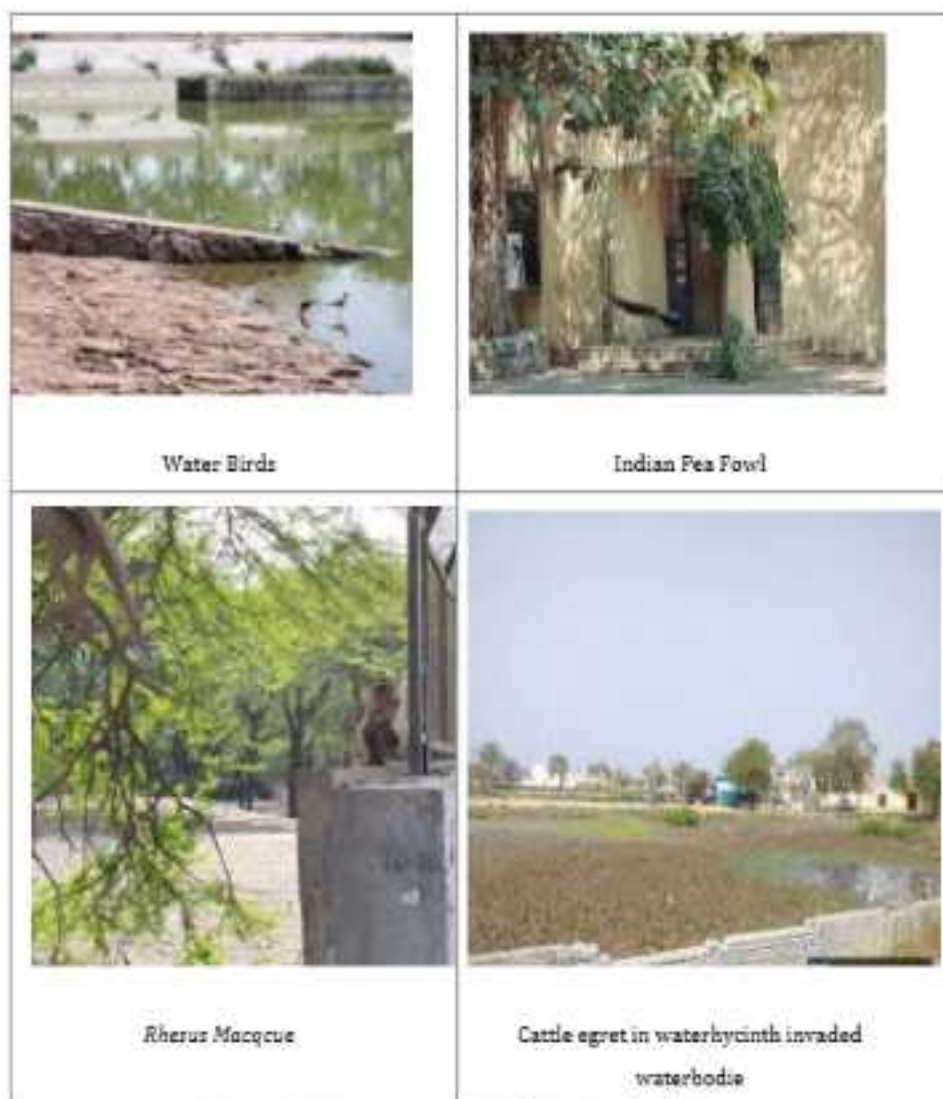


Figure 3.1: Representative Biodiversity of study area

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 comprise of one mammal and two avian which are enlisted Table 3.2. The detailed action plan for these species is discussed in the following sections.

Table 3.2: List of Schedule I species as per the Wildlife (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:

- Long, J. L. (2003). *Introduced Mammals of the World: Their History, Distribution and Influence*. CABI Publishing.
- 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.
- Invasive Species Specialist Group (ISSG). (2020). *Herpestes surpunctatus*. Retrieved from <http://www.iucngisd.org/gisd/species.php?sc=148>

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.

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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 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 JUWM which would be implemented this project. The same shall be monitored regularly by Regional Office of MoEF&CC at Chandigarh. Besides this, few areas where JUWM 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 the 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

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 7 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.

Less than 20 % 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 landfill 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 surroundings in 10km area. A total of 4860 trees will be planted across the project site.

In view of above, an elaborate plantation plan has been chalked out for this project. It is proposed to raise greenbelt development in 40% of the total project area, equivalent to 6 acres (2.43 hectares) of land.

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 industrial 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.
- **Conflict Resolution:** Establish protocols for responding to wildlife sightings or encounters to minimize disturbance and ensure safety for both wildlife and humans.

4.2.3 Monitoring and Research:

- **Population Monitoring:** Implement regular surveys and monitoring programs to track population trends and assess the effectiveness of conservation efforts.
- **Research Initiatives:** Support research studies on the behavior, ecology, and adaptation of these species to urban and industrial environments.

4.2.4 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.

4.2.5 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.

4.2.6 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.

4.2.7 Monitoring and Evaluation:

- **Performance Metrics:** Establish clear benchmarks and indicators to evaluate the success of conservation interventions periodically.

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 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 Bawana will discuss with forest department officials and get an understanding of the existing habitat improvement and wildlife management activities being conducted in in the study area. In consultation with the forest department, JUWML 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 Bawana 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 in 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, JUWML 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 Development of groves for roosting and mating of Indian peafowl

In habitats of Indian pea fowl near villages bushy grooves will be developed. Dumping of garbage in water bodies near villages will be prohibited. Throwing of litter and garbage in scrub and barren lands will be prohibited to further not to deteriorate the habitat.

4.3.6 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, JUWML, Bawana. It would be the responsibility of the DCF North Delhi, to ensure that the 'Wildlife Conservation Plan, JUWML Funds' are not utilised for any purposes other than those mentioned in this Wildlife Conservation Plan under any circumstances whatsoever.

4.3.7 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.

4.3.8 Monitoring Committee

A committee shall be formed under Chairmanship of Chief Wildlife Warden, Dept. of Forests & Wildlife, and govt. of NCT of Delhi. Other members of committee would be local DCF North, SDO or his representative, concerned Forest ACF, concerned Range Officer apart from two representatives of User Agency.

Main responsibilities of Monitoring Committee would be as follows:

- This committee shall monitor the implementation of this Wildlife Conservation Plan and the disbursement of the funds.
- The committee would also review the progress of the recommended measures at-least twice every year and take action to correct the course, if required.
- The committee would also need to send an annual report to the Chief Wildlife Warden.

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	IIInd 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 Signages, 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>	Ramjh	Mimosaceae	LC
2.	<i>Acacia nilotica</i>	Babul	Fabaceae	LC
3.	<i>Aegle marmelos</i>	Bel	Rutaceae	NT
4.	<i>Albizia lebbek</i>	Siris	Fabaceae	LC
5.	<i>Alstonia scholaris</i>	Saptarna	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>Casua firtula</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>	Gulshar	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 azadirach</i>	Bakam	Miliaceae	LC
23.	<i>Moringa oleifera</i>	Sahajan	Moringaceae	LC
24.	<i>Morus alba</i>	Shastoot	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	Mimocaceae	-
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>	Ask	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>	Nagphani	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>Baerhavia diffusa</i>	Red Spiderling	Myrtaginaceae	-
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>Ipomoea 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 furus</i>	Raddish-Yellow Beardgrass	Poaceae	-
4.	<i>Cynodon dactylon</i>	Bermuda Grass	Poaceae	-
5.	<i>Desmodium bipinnate</i>	Dazabhi	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 Mongoose	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 bodius</i>	Shikra	Accipitridae	LC/I
2.	<i>Acridotheres ginginianus</i>	Bank Myna	Sturnidae	LC/II
3.	<i>Acridotheres tristis</i>	Common Myna	Sturnidae	LC/II
4.	<i>Actitis hypoleucos</i>	Common Sandpiper	Scopariidae	LC/II
5.	<i>Alcedo atthis</i>	Common Kingfisher	Alcedinidae	LC/II
6.	<i>Amandava amandava</i>	Red Amdavet	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	Columbidae	LC/-
12.	<i>Coracias benghalensis</i>	Indian Roller	Coraciidae	LC/II
13.	<i>Dendrocyttus 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>Eudynamis scolopacea</i>	Asian Koel	Cuculidae	LC/II
17.	<i>Holcyon smyrenensis</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>Nyctus migrans</i>	Black Kite	Accipitridae	LC/II
21.	<i>Mycteria leucocephala</i>	Painted stork	Ciconiidae	NT/II
22.	<i>Nectarinia asiatica</i>	Purple Sunbird	Nectariniidae	LC/II
23.	<i>Ocyrops bitorstris</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>Pittacula eupatria</i>	Alexandrine Parakeet	Pittaciidae	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>Anaëne merione</i>	Common Castor	Nymphalidae	-
2.	<i>Belenus 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>Mesonitis leda</i>	Common Evening Brown	Nymphalidae	
9.	<i>Papilio demoleus</i>	Common Swallowtail	Papilionidae	LC/-
10.	<i>Phalanta phalartha</i>	Common Leopard	Nymphalidae	LC/-
11.	<i>Spindora vulcanus</i>	Common Silverline	Lycaenidae	-
12.	<i>Zizula hylax</i>	Tiny Grass Blue	Lycaenidae	LC/-
Amphibians				
1.	<i>Bufo stomaticus</i>	Indus Valley Toad	Bufoidea	LC/-
2.	<i>Duttaphrynus melanostictus</i>	Asian Common Toad	Bufoidea	LC/-
3.	<i>Euphlyctis 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 leschenaulti</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

Annexure-VIII

Hotspot Ground Water and Pond water

Test Report

Study Period: March, 2024

Sl. No	Contents	Page No.
	March-2024	
	Hotspot Water Quality	02-19
1.	M/s Seasti Paints Sector-3	02-03
2.	Nigam Prathamik Vidhyalay	04-05
3.	Ganga Toli Temple	06-07
4.	Sandhyashi Hospital	08-09
5.	Primery School Block-N, Sector-3	10-11
6.	R.K.G. Polymers Pvt. Ltd	12-13
7.	Hamman Mandir	14-15
8.	Stellar Plastic Bawana Sector-5	16-17
9.	Pond Near JJ Colony Bus Stand	18-19



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Sample Identification	: W240313 01
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 11.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: M/s Srasti Paints Sector-3
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-6) : 2017
4.	pH	-	7.23	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	20	---	---	IS 3025(Part-9) : 2017
6.	Turbidity	NTU	1.2	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	684	---	---	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	210	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	445	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	222	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	67.2	200	100	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	13.1	30	100	IS 3025(Part-46) : 2019
13.	Chloride as Cl	mg/l	78	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.34	---	---	IS 3025 (Part-31):2022
15.	Nitrate as NO ₃	mg/l	10.5	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	48	200	400	IS 3025(Part-34) : 2019
17.	Fluoride	mg/l	0.68	1.0	1.5	IS 3025(Part-60) : 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34) : 2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26) : 2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26) : 2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39) : 2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27) : 2019

25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.005	No relaxation	IS 3025(Part-2):2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.014	0.3	No relaxation	IS 3025(Part-2):2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-46):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2):2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
40.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
41.	Sodium as Na	mg/l	64	—	—	IS 3025(Part-45):2019
42.	Potassium as K	mg/l	6	—	—	IS 3025(Part-45):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Mallik
Gaja Nand Mallik
Quality Manager:

Notes:

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Sample Identification	: W240313 02
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 11.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Nigam Prathamik Vidhyalay
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.36	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	21	—	—	IS 3025(Part-9) : 2017
6.	Turbidity	NTU	1.4	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	632	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	194	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	411	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	216	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	63.2	200	100	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	14.0	30	100	IS 3025(Part-46) : 2019
13.	Chloride as Cl	mg/l	74	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.56	—	—	IS 3025 (Part-31):2022
15.	Nitrate as NO ₃	mg/l	9.2	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	44	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.56	1.0	1.5	IS 3025(Part-60) : 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34) : 2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26) : 2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26) : 2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39) : 2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27) : 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2) : 2019

26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.003	No relaxation	IS 3025(Part-2):2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.016	0.3	No relaxation	IS 3025(Part-2):2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2):2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
40.	Zinc as Zn	mg/l	<0.02	3	15	IS 3025(Part-2):2019
41.	Sodium as Na	mg/l	54	—	—	IS 3025(Part-43):2019
42.	Potassium as K	mg/l	6	—	—	IS 3025(Part-43):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

Notes:

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Sample Identification	: W240313 03
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 11.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Ganga Toli Temple
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.42	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	20	—	—	IS 3025(Part-9) : 2017
6.	Turbidity	NTU	1.1	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	580	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	184	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	377	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	194	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	60.0	200	100	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	10.6	30	100	IS 3025(Part-46) : 2019
13.	Chloride as Cl	mg/l	64	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.62	—	—	IS 3025 (Part-31):2022
15.	Nitrate as NO ₃	mg/l	9.5	45	No relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	38	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.62	1.0	1.5	IS 3025(Part-60) : 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34):2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26):2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26):2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39):2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27):2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2):2019
26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019

27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.003	No relaxation	IS 3025(Part-2) : 2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2) : 2019
30.	Iron as Fe	mg/l	0.008	0.3	No relaxation	IS 3025(Part-2) : 2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2) : 2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2) : 2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2) : 2019
40.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2) : 2019
41.	Sodium as Na	mg/l	52	—	—	IS 3025(Part-43):2019
42.	Potassium as K	mg/l	5	—	—	IS 3025 (Part-43):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:

Seal of Lab:

Wollick
Gaja Narid Mallick
Quality Manager:

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MANTEC ENVIRONMENTAL LABORATORY

(Recognized by MoEF&CC-Govt. of India)

D-36, SECTOR-VI, NOIDA, District-Gautam BudhNagar, U. P.
Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W240313 04
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Sandhyashi Hospital
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.34	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	22	—	—	IS 3025(Part-9) : 2017
6.	Turbidity	NTU	1.0	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmho/cm	585	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	192	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	380	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	210	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	65.6	200	100	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	11.2	30	100	IS 3025(Part-46) : 2019
13.	Chloride as Cl	mg/l	68	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.64	—	—	IS 3025 (Part-31):2022
15.	Nitrate as NO ₃	mg/l	8.6	45	No relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	32	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.46	1.0	1.5	IS 3025(Part-60) : 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34):2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26):2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26):2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39):2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27):2019
25.	Aluminium as Al	mg/l	<0.05	0.03	0.2	IS 3025(Part-2):2019

26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.005	No relaxation	IS 3025(Part-2) : 2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2) : 2019
30.	Iron as Fe	mg/l	0.002	0.3	No relaxation	IS 3025(Part-2) : 2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2) : 2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2) : 2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2) : 2019
40.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2) : 2019
41.	Sodium as Na	mg/l	48	—	—	IS 3025(Part-45):2019
42.	Potassium as K	mg/l	4	—	—	IS 3025 (Part-45):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Gajja Nand Mallick
Gajja Nand Mallick
Quality Manager:

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Ph. 0120-4215000, 4215605, Fax, 0120-4215609, e-mail: manteclab@gmail.com

Sample Identification	: W240313 05
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Primery School Block-N, Sector-3
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.MP-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2011
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.52	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	20	—	—	IS 3025(Part-9) : 2017
6.	Turbidity	NTU	1.3	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	677	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	218	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	440	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	226	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	64.8	200	100	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	15.6	30	100	IS 3025(Part-46) : 2019
13.	Chloride as Cl	mg/l	78	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.58	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO ₃	mg/l	10.2	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	42	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.62	1.0	1.5	IS 3025(Part-40) : 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34) : 2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26) : 2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26) : 2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39) : 2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27) : 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2) : 2019

26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.003	No relaxation	IS 3025(Part-2): 2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2): 2019
30.	Iron as Fe	mg/l	0.016	0.3	No relaxation	IS 3025(Part-2): 2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2): 2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2): 2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2): 2019
40.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2): 2019
41.	Sodium as Na	mg/l	62	—	—	IS 3025(Part-45):2019
42.	Potassium as K	mg/l	5	—	—	IS 3025 (Part-45):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 3175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W240313 06
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: R.K.G. Polymers Pvt. Ltd.
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4) : 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) : 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8) : 2017
4.	pH	-	7.16	6.5-8.5	No relaxation	IS 3025(Part-11) : 2022
5.	Temperature	°C	19	—	—	IS 3025(Part-9) : 2017
6.	Turbidity	NTU	1.2	1	5	IS 3025(Part-10) : 2017
7.	Conductivity	µmhos/cm	610	—	—	IS 3025(Part-14) : 2019
8.	Alkalinity as CaCO ₃	mg/l	190	200	600	IS 3025(Part-23) : 2019
9.	Total Dissolved Solids	mg/l	397	500	2000	IS 3025(Part-16) : 2017
10.	Total Hardness as CaCO ₃	mg/l	212	200	600	IS 3025(Part-21) : 2019
11.	Calcium as Ca	mg/l	68.8	200	100	IS 3025(Part-40) : 2019
12.	Magnesium as Mg	mg/l	9.7	30	100	IS 3025(Part-46) : 2019
13.	Chloride as Cl	mg/l	72	250	1000	IS 3025(Part-32) : 2019
14.	Total Phosphorous	mg/l	0.54	—	—	IS 3025 (Part-31) : 2022
15.	Nitrate as NO ₃	mg/l	10.5	45	No relaxation	IS 3025(Part-34) : 2019
16.	Sulphate as SO ₄	mg/l	36	200	400	IS 3025(Part-24) : 2019
17.	Fluoride	mg/l	0.48	1.0	1.5	IS 3025(Part-60) : 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34) : 2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26) : 2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26) : 2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39) : 2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43) : 2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27) : 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2) : 2019

26. Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27. Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28. Cadmium as Cd	mg/l	<0.002	0.003	No relaxation	IS 3025(Part-2):2019
29. Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
30. Iron as Fe	mg/l	0.014	0.3	No relaxation	IS 3025(Part-2):2019
31. Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
32. Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33. Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34. Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35. Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36. Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37. Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38. Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2):2019
39. Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
40. Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
41. Sodium as Na	mg/l	52	—	—	IS 3025(Part-45):2019
42. Potassium as K	mg/l	5	—	—	IS 3025(Part-45):2019
43. Pesticides	mg/l	ND*	—	No relaxation	USEPA
44. Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45. Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46. Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47. Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48. Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49. Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50. Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
51. Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
52. E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Mallik
Gaja Nand Mallik
Quality Manager:

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Sample Identification	: W240313 07
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Hanuman Mandir
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEI/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4): 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5): 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8): 2017
4.	pH	-	7.46	6.5-8.5	No relaxation	IS 3025(Part-11): 2022
5.	Temperature	°C	20	—	—	IS 3025(Part-9): 2017
6.	Turbidity	NTU	1.3	1	5	IS 3025(Part-10): 2017
7.	Conductivity	µmhos/cm	650	—	—	IS 3025(Part-14): 2019
8.	Alkalinity as CaCO ₃	mg/l	212	200	600	IS 3025(Part-23): 2019
9.	Total Dissolved Solids	mg/l	422	500	2000	IS 3025(Part-16): 2017
10.	Total Hardness as CaCO ₃	mg/l	226	200	600	IS 3025(Part-21): 2019
11.	Calcium as Ca	mg/l	71.2	200	100	IS 3025(Part-40): 2019
12.	Magnesium as Mg	mg/l	11.6	30	100	IS 3025(Part-46): 2019
13.	Chloride as Cl	mg/l	70	250	1000	IS 3025(Part-32): 2019
14.	Total Phosphorous	mg/l	0.52	—	—	IS 3025 (Part-31):2022
15.	Nitrate as NO ₃	mg/l	8.5	45	No relaxation	IS 3025(Part-34):2019
16.	Sulphate as SO ₄	mg/l	42	200	400	IS 3025(Part-24): 2019
17.	Fluoride	mg/l	0.64	1.0	1.5	IS 3025(Part-60): 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34):2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-28):2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26):2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39):2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43):2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27):2019
25.	Aluminium as Al	mg/l	<0.05	0.03	0.2	IS 3025(Part-2):2019

26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.003	No relaxation	IS 3025(Part-2):2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2):2019
30.	Iron as Fe	mg/l	0.008	0.3	No relaxation	IS 3025(Part-2):2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2):2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2):2019
40.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2):2019
41.	Sodium as Na	mg/l	36	—	—	IS 3025(Part-45):2019
42.	Potassium as K	mg/l	5	—	—	IS 3025(Part-45):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622:1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Mallik
Gajanan Mallik
Quality Manager:

Notes:

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W240313 08
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Ground Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Stellar Plastic Bawana Sector-5
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST REPORT

Sl. No.	Parameter	Units	Value	Desirable Limits	Permissible Limits	Test Method
1.	Colour	Hazen	<5	5	15	IS 3025(Part-4): 2021
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5): 2018
3.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-8): 2017
4.	pH	-	7.36	6.5-8.5	No relaxation	IS 3025(Part-11): 2022
5.	Temperature	°C	21	—	—	IS 3025(Part-9): 2017
6.	Turbidity	NTU	1.1	1	5	IS 3025(Part-10): 2017
7.	Conductivity	µmhos/cm	564	—	—	IS 3025(Part-14): 2019
8.	Alkalinity as CaCO ₃	mg/l	188	200	600	IS 3025(Part-23): 2019
9.	Total Dissolved Solids	mg/l	366	500	2000	IS 3025(Part-16): 2017
10.	Total Hardness as CaCO ₃	mg/l	198	200	600	IS 3025(Part-21): 2019
11.	Calcium as Ca	mg/l	62.4	200	100	IS 3025(Part-40): 2019
12.	Magnesium as Mg	mg/l	10.2	30	100	IS 3025(Part-46): 2019
13.	Chloride as Cl	mg/l	64	250	1000	IS 3025(Part-32): 2019
14.	Total Phosphorous	mg/l	0.52	—	—	IS 3025 (Part-31): 2022
15.	Nitrate as NO ₃	mg/l	8.2	45	No relaxation	IS 3025(Part-34): 2019
16.	Sulphate as SO ₄	mg/l	30	200	400	IS 3025(Part-34): 2019
17.	Fluoride	mg/l	0.42	1.0	1.5	IS 3025(Part-60): 2019
18.	Ammonia as total ammonia-N	mg/l	<0.25	0.5	No relaxation	IS 3025(Part-34): 2019
19.	Anionic detergents (as MBAS)	mg/l	<0.05	0.2	1.0	Annex k of IS 13428
20.	Chloramines as Cl ₂	mg/l	<0.1	4.0	No relaxation	IS 3025(Part-26): 2021
21.	Free residual chlorine	mg/l	<0.1	0.2	1.0	IS 3025(Part-26): 2021
22.	Mineral oil	mg/l	<0.1	0.5	No relaxation	IS 3025(Part-39): 2021
23.	Phenolic compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002	IS 3025(Part-43): 2022
24.	Cyanide as CN	mg/l	<0.01	0.05	No relaxation	IS 3025(Part-27): 2019
25.	Aluminium as Al	mg/l	<0.005	0.03	0.2	IS 3025(Part-2): 2019

26.	Barium as Ba	mg/l	<0.005	0.7	No relaxation	IS 3025(Part-2):2019
27.	Boron as B	mg/l	<0.1	0.5	1.0	IS 3025(Part-2):2019
28.	Cadmium as Cd	mg/l	<0.002	0.003	No relaxation	IS 3025(Part-2) : 2019
29.	Copper as Cu	mg/l	<0.005	0.05	1.5	IS 3025(Part-2) : 2019
30.	Iron as Fe	mg/l	0.006	0.3	No relaxation	IS 3025(Part-2) : 2019
31.	Lead as Pb	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2) : 2019
32.	Manganese as Mn	mg/l	<0.005	0.1	0.3	IS 3025(Part-2):2019
33.	Mercury as Hg	mg/l	<0.0005	0.001	No relaxation	IS 3025(Part-48):2019
34.	Molybdenum as Mo	mg/l	<0.005	0.07	No relaxation	IS 3025(Part-2):2019
35.	Nickel as Ni	mg/l	<0.005	0.02	No relaxation	IS 3025(Part-2):2019
36.	Selenium as Se	mg/l	<0.005	0.01	No relaxation	IS 3025(Part-2):2019
37.	Silver as Ag	mg/l	<0.005	0.1	No relaxation	IS 3025(Part-2):2019
38.	Total Chromium as Cr	mg/l	<0.005	0.05	No relaxation	IS 3025(Part-2) : 2019
39.	Total Arsenic as As	mg/l	<0.005	0.01	0.05	IS 3025(Part-2) : 2019
40.	Zinc as Zn	mg/l	<0.02	5	15	IS 3025(Part-2) : 2019
41.	Sodium as Na	mg/l	48	—	—	IS 3025(Part-45):2019
42.	Potassium as K	mg/l	4	—	—	IS 3025 (Part-45):2019
43.	Pesticides	mg/l	ND*	—	No relaxation	USEPA
44.	Polychlorinated biphenyls	mg/l	ND*	0.0005	No relaxation	ASTM 5175
45.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	0.0005	No relaxation	APHA 6440
46.	Bromoform	mg/l	ND*	0.1	No relaxation	APHA 6232
47.	Dibromochloromethane	mg/l	ND*	0.1	No relaxation	APHA 6232
48.	Bromodichloromethane	mg/l	ND*	0.06	No relaxation	APHA 6232
49.	Chloroform	mg/l	ND*	0.2	No relaxation	APHA 6232
50.	Total Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
51.	Faecal Coliform	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981
52.	E. coli	MPN/100ml	<2	Shall not be detectable in any 100 ml sample		IS 1622 : 1981

#Not Detected

Ajmal
Ajmal Husain
Analyzed by:



Mallik
Gaja Nand Mallik
Quality Manager:

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Ph. 0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W240313 09
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Surface Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Pond Near JJ Colony Bus Stand
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	—	IS 3025(Part-3):2018
2.	Odour	-	Agreeable	—	IS 3025(Part-4):2021
3.	Taste	-	Not done	—	IS 3025(Part-7&8):2017
4.	pH	-	7.37	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	$^\circ\text{C}$	21	—	IS 3025(Part-9):2017
6.	Turbidity	NTU	3.5	—	IS 3025(Part-10):2017
7.	Conductivity	$\mu\text{mhos/cm}$	507	—	IS 3025(Part-14):2019
8.	Alkalinity as CaCO_3	mg/l	208	—	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	524	—	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	3	—	IS 3025(Part-17):2022
11.	Total Hardness as CaCO_3	mg/l	294	—	IS 3025(Part-23):2019
12.	Calcium as CaCO_3	mg/l	196	—	IS 3025(Part-40):2019
13.	Magnesium as CaCO_3	mg/l	98	—	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	146	—	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.22	—	IS 3025(Part-31):2022
16.	Nitrate as NO_3	mg/l	6.30	—	IS 3025(Part-34):2019
17.	Sulphate as SO_4	mg/l	38.00	—	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.33	—	IS 3025(Part-60):2019
19.	Ammonia as total ammonia-N	mg/l	<0.25	—	IS 3025(Part-34):2019
20.	Anionic detergents (as MBAS)	mg/l	<0.05	—	Annex k of IS 13428
21.	Chloramines as Cl_2	mg/l	<0.1	—	IS 3025(Part-26):2021
22.	Free residual chlorine	mg/l	<0.1	—	IS 3025(Part-26):2021
23.	Mineral oil	mg/l	<0.1	—	IS 3025(Part-39):2021
24.	Phenolic compounds as $\text{C}_6\text{H}_5\text{OH}$	mg/l	<0.001	—	IS 3025(Part-43):2022
25.	Cyanide as CN	mg/l	<0.01	—	IS 3025(Part-27):2019
26.	Aluminium as Al	mg/l	<0.005	—	IS 3025(Part-2):2019
27.	Barium as Ba	mg/l	<0.005	—	IS 3025(Part-2):2019
28.	Boron as B	mg/l	<0.1	—	IS 3025(Part-2):2019
29.	Cadmium as Cd	mg/l	<0.002	—	IS 3025(Part-2):2019
30.	Copper as Cu	mg/l	<0.005	—	IS 3025(Part-2):2019
31.	Iron as Fe	mg/l	0.08	—	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	<0.005	—	IS 3025(Part-2):2019

33.	Manganese as Mn	mg/l	<0.005	---	IS 3025(Part-2):2019
34.	Mercury as Hg	mg/l	<0.0005	---	IS 3025(Part-48):2019
35.	Molybdenum as Mo	mg/l	<0.005	---	IS 3025(Part-2):2019
36.	Nickel as Ni	mg/l	<0.005	---	IS 3025(Part-2):2019
37.	Selenium as Se	mg/l	<0.005	---	IS 3025(Part-2):2019
38.	Silver as Ag	mg/l	<0.005	---	IS 3025(Part-2):2019
39.	Total Arsenic as As	mg/l	<0.005	---	IS 3025(Part-2):2019
40.	Total Chromium as Cr	mg/l	<0.005	---	IS 3025(Part-2):2019
41.	Zinc as Zn	mg/l	<0.02	---	IS 3025(Part-2):2019
42.	Sodium as Na	mg/l	64	---	IS 3025(Part-45):2019
43.	Potassium as K	mg/l	6	---	IS 3025(Part-45):2019
44.	Pesticides	mg/l	ND*	---	USEPA
45.	Polychlorinated biphenyls	mg/l	ND*	---	ASTM 5175
46.	Polynuclear aromatic hydrocarbons as PAH	mg/l	ND*	---	APHA 6440
47.	Bromoform	mg/l	ND*	---	APHA 6232
48.	Dibromochloromethane	mg/l	ND*	---	APHA 6232
49.	Bromodichloromethane	mg/l	ND*	---	APHA 6232
50.	Chloroform	mg/l	ND*	---	APHA 6232
51.	Dissolved Oxygen	mg/l	5.6	24mg/l	IS 3025(Part-38):2019
52.	BOD	mg/l	20	---	IS 3025(Part-44):2019
53.	COD	mg/l	54	---	IS 3025(Part-58):2017
54.	Total Coliform	MPN/100ml	2210	---	IS: 1622-1981
55.	Faecal Coliform	MPN/100ml	940	---	IS: 1622-1981
56.	E. coli	MPN/100ml	460	---	IS: 1622-1981

#Not Detected

Designated Best Use	Class
Drinking Water source without conventional treatment but after disinfection	A
Outdoor Bathing (Organized)	B
Drinking water source after conventional treatment & disinfection	C
Propagation of wild life & Fisheries	D
Irrigation, Industrial cooling, Controlled Waste Disposal	E
	Below E

Ajmal
Ajmal Husain
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager:

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 Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: W240313 09
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Surface Water (Hotspot)
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Pond Near JJ Colony Bus Stand
Sample Submitted by	: Mr. Ankit Kumar Tiwari
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameters	Units	Value	Designated Class D	Test Method
1.	Colour	Hazen	<5	---	IS 3025(Part-5):2018
2.	Odour	-	Agreeable	---	IS 3025(Part-4):2021
3.	Taste	-	Not discern	---	IS 3025(Part-7&8):2017
4.	pH	-	7.37	6.5-8.5	IS 3025(Part-11):2022
5.	Temperature	$^\circ\text{C}$	21	---	IS 3025(Part-9):2017
6.	Turbidity	NTU	3.5	---	IS 3025(Part-10):2017
7.	Conductivity	$\mu\text{mhos/cm}$	807	---	IS 3025(Part-14):2019
8.	Alkalinity as CaCO_3	mg/l	208	---	IS 3025(Part-23):2019
9.	Total Dissolved Solids	mg/l	524	---	IS 3025(Part-16):2017
10.	Total Suspended Solids	mg/l	3	---	IS 3025(Part-17):2022
11.	Total Hardness as CaCO_3	mg/l	294	---	IS 3025(Part-21):2019
12.	Calcium as CaCO_3	mg/l	196	---	IS 3025(Part-40):2019
13.	Magnesium as CaCO_3	mg/l	98	---	IS 3025(Part-46):2019
14.	Chloride as Cl	mg/l	146	---	IS 3025(Part-32):2019
15.	Total Phosphorous	mg/l	0.22	---	IS 3025(Part-31):2022
16.	Nitrate as NO_3	mg/l	6.30	---	IS 3025(Part-34):2019
17.	Sulphate as SO_4	mg/l	38.00	---	IS 3025(Part-24):2019
18.	Fluoride	mg/l	0.33	---	IS 3025(Part-60):2019
19.	Ammonia as total ammonia-N	mg/l	<0.25	---	IS 3025(Part-34):2019
20.	Anionic detergents (as MBAS)	mg/l	<0.05	---	Annex k of IS 13428
21.	Chloramines as Cl_2	mg/l	<0.1	---	IS 3025(Part-26):2021
22.	Free residual chlorine	mg/l	<0.1	---	IS 3025(Part-26):2021
23.	Mineral oil	mg/l	<0.1	---	IS 3025(Part-39):2021
24.	Phenolic compounds as $\text{C}_6\text{H}_5\text{OH}$	mg/l	<0.001	---	IS 3025(Part-43):2022
25.	Cyanide as CN	mg/l	<0.01	---	IS 3025(Part-27):2019
26.	Aluminium as Al	mg/l	<0.005	---	IS 3025(Part-2):2019
27.	Barium as Ba	mg/l	<0.005	---	IS 3025(Part-2):2019
28.	Boron as B	mg/l	<0.1	---	IS 3025(Part-2):2019
29.	Cadmium as Cd	mg/l	<0.002	---	IS 3025(Part-2):2019
30.	Copper as Cu	mg/l	<0.005	---	IS 3025(Part-2):2019
31.	Iron as Fe	mg/l	0.08	---	IS 3025(Part-2):2019
32.	Lead as Pb	mg/l	<0.005	---	IS 3025(Part-2):2019

Annexure-IX
Test Report Fly Ash And Bottom Ash
For Proposed Project
Waste to Energy Bawana



MANTEC ENVIRONMENTAL LABORATORY

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D-36, SECTOR-6, NOIDA, District-Gautam Budh Nagar, U. P. -201301

Ph: 0120-4215000, 4215805, Fax: 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: AS240313 01
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 11.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Fly Ash
Sample Condition	: Ok
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2023
Date of Reporting	: 19.03.2023
Sampling Location	: Dump Site/WTE Plant Near Project Site
Sample Submitted by	: By Courier
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEI/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Texture	-	Sandy Clay Loam	IS 2720(Part-04):2020
2.	Sand	%	65	IS 2720(Part-04):2020
3.	Clay	%	29	IS 2720(Part-04):2020
4.	Silt	%	06	IS 2720(Part-04):2020
5.	CBC	mg/100gm	14.22	IS 2720(Part-24):2020
6.	Bulk Density	gm/cm ³	1.42	IS 2720(Part-28):2020
7.	Loss of Ignition	%	0.74	IS 3812 (Part-01)
8.	Organic Carbon	%	1.68	IS 2720(Part-22)

Ankit Kumar Tiwari
Ankit Kumar Tiwari
Analyzed by:



Manoranjan Kumar
Technical Manager:

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D-36, SECTOR-6, NOIDA, District-Gautam Budh Nagar, U. P. -201301
Ph: 0120-4215000, 4215805, Fax: 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: AS240313 02
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana) Ltd.
Date of Sampling	: 11.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Bottom Ash
Sample Condition	: Ok
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2023
Date of Reporting	: 19.03.2023
Sampling Location	: Dump Site/WTE Plant Near Project Site
Sample Submitted by	: By Courier
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEI/MSP/7/MP-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Texture	-	Clay	IS 2720 (Part-04):2020
2.	Sand	%	37	IS 2720 (Part-04):2020
3.	Clay	%	55	IS 2720 (Part-04):2020
4.	Silt	%	08	IS 2720 (Part-04):2020
5.	CEC	mg/100gm	14.22	IS 2720 (Part-24):2020
6.	Bulk Density	gm/cm ³	1.46	IS 2720 (Part-26):2020
7.	Loss of Ignition	%	0.86	IS 3812 (Part-01)
8.	Organic Carbon	%	1.72	IS 2720 (Part-22)

Ankit kumar Tiwari
Ankit Kumar Tiwari
Analyzed by:



Mahoranj Kumar
Technical Manager:

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****End of Report****

Annexure-X
Corporate environmental policy

CORPORATE ENVIRONMENTAL POLICY

The Jindal Saw Limited Company has a corporate Environment, Health and Safety policy which is duly approved by the board. Proposed green field project M/s Jindal Urban Waste Management (Bawana) Limited shall adopt the same as.

EHS policy is given as:



ENVIRONMENT, HEALTH & SAFETY (EHS) POLICY

Jindal Urban Waste Management (Bawana) Limited aims to be pioneer in the field of Solid Waste Management and maintain Environment friendly, Healthy, Safe and Sustainable working condition in all its operations to achieve sustainable development.

To achieve the above, we are committed to:

- > Optimize consumption of natural resources through the principles of reduce, reuse/recycle, and recover.
- > Comply with all the applicable Environmental, Health, Safety, Legal and other requirements and remain a responsible member towards society.
- > Prevention of Pollution and Health & Safety impact due to our operations.
- > Develop awareness, skills & competence amongst employees towards a "Sustainable, Safe & Green World".
- > Adhere to quality systems with innovative approach.
- > Review EHS Policy on regular basis and communicate the same to relevant internal as well as external stakeholders.
- > Retain leadership position in Environment protection through continual improvement.

Date: 02.05.2023
Revision: 00


(Executive Director)

Annexure-XI

CSR Policy

CORPORATE SOCIAL RESPONSIBILITY (CSR) POLICY OF JINDAL SAW LIMITED

The proposed Greenfield project will be implemented by M/s Jindal Urban Waste Management (Bawana) Limited, subsidiary company of Jindal Saw Limited. The Jindal Saw Limited having a Corporate Social Responsibility (CSR) Policy and same will be adopted by M/s Jindal Urban Waste Management (Bawana) Limited. The Corporate Social Responsibility is strongly connected with the principles of sustainability. Therefore, it is the core corporate responsibility of Jindal SAW Limited to practice its corporate values through its commitment to grow in a socially and environmentally responsible way. The company is committed to undertake activities such as free medical check-up camps for nearby local population, providing organic manure to local farmers to increase yield of crops, Vocational training (Skill Development) to women, local villagers & rag pickers on Developing packaging & other products from recyclables/reusable, Books/Stationary distribution in nearby schools, plantation of Medicinal and Fragrance Trees in Nearby Localities in the surrounding areas. The CSR activities will be dovetailed with government schemes. The CSR activities will be monitored by an independent cell comprising of higher officials after project completion.

Annexure-XII
GRAP Recommendation for
NCR



No.120017/27/GRAP/2021/CAQM

October 06, 2023

ORDER

Sub.: Implementation of Actions under Stage-I ('Poor' Air Quality) of revised Graded Response Action Plan in Delhi-NCR- steps to be taken.

The Commission for Air Quality Management in NCR and adjoining areas, vide Direction No. 77 dated 6th October, 2023, issued statutory direction for implementation of the revised schedule of the Graded Response Action Plan (GRAP) with immediate effect, which is also available on the CAQM website (caqm.nic.in).

The sub-Committee constituted for invoking actions under the GRAP in its meeting held on 06.10.2023 comprehensively reviewed the air quality scenario in the region as well as the forecasts for meteorological conditions and air quality index made available by IMD/IITM.

It was noted that there has been a sudden dip in air quality parameters in the last 48 hrs in the region which led to the AQI for Delhi moving into the 'POOR' category and the forecasts also predict air quality to mainly remain in Poor category in coming days (except for one or two days) owing to the unfavorable meteorological condition. Therefore, the sub-committee decided that **ALL actions** as envisaged **under Stage I of the GRAP - 'Poor' Air Quality (DELHI AQI ranging between 201-300)**, be implemented in right earnest by all the agencies concerned, with immediate effect in the NCR.

These include:

1. Ensure proper implementation of Directions/ guidelines on dust mitigation measures in Construction and Demolition (C&D) activities and sound environmental management of C&D waste.
2. Ensure strict compliance of Direction Nos. 11-18 dated 11.06.2021 not to permit C&D activities in respect of such projects with plot size equal to or more than 500 sqm which are not registered on the 'web portal' of the respective state / GNCTD, for remote monitoring of dust mitigation measures.
3. Ensure regular lifting of Municipal Solid Waste (MSW), Construction & Demolition (C&D) waste, and Hazardous wastes from dedicated dump sites and ensure that no waste is dumped illegally in open land areas.
4. Carry out periodic mechanized sweeping and water sprinkling on roads and ensure scientific disposal of the dust collected in designated sites/landfills.

5. Ensure that C&D materials & waste are properly stored/ contained, duly covered in the premises. Ensure transportation of C&D waste in covered vehicles and its recycling at an appropriate processing facility.
6. Strictly enforce directions and yardsticks for use of anti-smog guns at C&D sites.
7. Intensify use of anti-smog guns, water sprinkling and dust suppression measures in road construction / maintenance / repair projects.
8. Stringently enforce prohibition on open burning of biomass and municipal solid waste. Impose maximum EC upon violations in accordance with Hon'ble NGT's orders dated 04.12.2014 and 28.04.2015 in OA 21/2014.
9. Strict vigil to ensure that there are no burning incidents in the landfill sites / dumpsites.
10. Deploy traffic police for smooth traffic flow at all identified corridors with heavy traffic and congestion prone intersections.
11. Strict vigilance and enforcement of PUC norms for vehicles.
12. No tolerance for visible emissions- Stop visibly polluting vehicles by impounding and / or levying maximum penalty.
13. Strictly enforce the Hon'ble Supreme Court order on diversion of non-destined truck traffic for Delhi, through Eastern and Western Peripheral Expressways.
14. Strictly enforce NGT / Hon'ble SC's order on overaged diesel / petrol vehicles and as per extant statutes.
15. Ensure strict penal/ legal action against non compliant and illegal industrial units.
16. Stringently enforce all pollution control regulations in Industries, brick kilns and hot mix plants etc. - strict compliance of the prescribed standards of emissions.
17. Ensure that only approved fuels are used by the industries in NCR including in brick kilns and hot mix plants and enforce closure in case of violations, if any.
18. Stringently enforce emission norms in thermal power plants and strict actions be taken against non-compliance.
19. Strictly enforce Hon'ble Courts/Tribunal orders regarding ban on fire crackers.
20. Ensure regular lifting and proper disposal of industrial waste from industrial and non-development areas.
21. DISCOMs to minimise power supply interruptions in NCR.

22. Ensure that diesel generator sets are not used as regular source of power supply.
23. Enforce complete ban on coal / firewood in Tandoors in Hotels, Restaurants and open eateries.
24. Ensure hotels, restaurants and open eateries use only electricity / clean fuel gas-based appliances.
25. Information dissemination including through social media and bulk SMS etc. Mobile Apps to be used to inform people about the pollution levels, contact details of control room, enable them to report polluting activities / sources to the concerned authorities and inform them about actions that would be taken by Government.
26. Ensure quick actions for redressal of complaints on 311 APP, Green Delhi App, SAMEER App and other such social media platforms to curb polluting activities.
27. Encourage offices to start unified commute for employees to reduce traffic on road.

Further, citizens may be urged to adhere to the citizen charter and assist in effective implementation of the GRAP measures aimed towards sustaining and improving the Air Quality in the region, as under:

- Keep engines of your vehicles properly tuned.
- Maintain proper tyre pressure in vehicles.
- Keep PUC certificates of your vehicles up to date.
- Do not idle your vehicle, also turn off the engine at red lights.
- Prefer hybrid vehicles or EVs to control vehicular pollution.
- Do not litter / dispose wastes, garbage in open spaces.
- Report air polluting activities through 311 App, Green Delhi App, SAMEER App etc.
- Plant more trees.
- Celebrate festivals in an eco-friendly manner – avoid firecrackers.
- Do not drive / ply end of life / 10/15 years old Diesel/Petrol vehicles.


(R.K. Agrawal)

Director (Technical)

(Member & Convenor of Sub-Committee on GRAP)

To:

1. The Chief Secretary, Government of Uttar Pradesh, 101, Lok Bhawan, U. P. Civil Secretariat, Vidhan Sabha Marg, Lucknow – 226 001.
2. The Chief Secretary, Government of Rajasthan, Government Secretariat, Jaipur, Rajasthan – 302 005.
3. The Chief Secretary, Government of Haryana, 4th Floor, Civil Secretariat, Sector – 1, Chandigarh.
4. The Chief Secretary, Government of NCT of Delhi, 3rd Floor, Delhi Secretariat, I. P. Estate, New Delhi – 110 002.
5. Additional Chief Secretary/Principal Secretary, Department of Environment, Uttar Pradesh.
6. Additional Chief Secretary, Department of Environment, Room No. 335, 3rd Floor, Haryana New Secretariat, Sector 17, Chandigarh.
7. Additional Chief Secretary / Principal Secretary, Department of Environment, Government of NCT of Delhi, Room No. 801, 8th Floor, B Wing, Delhi Secretariat, Delhi - 110002.
8. Principal Secretary, Department of Environment, Room No. 4224, 2nd Floor, Main Building, Government of Rajasthan Sectt. Jaipur.
9. Principal Secretary, Department of Transport, Government of Uttar Pradesh, Room No. 701, Bapu Bhawan, Hazratganj, Lucknow, Uttar Pradesh.
10. Addl. Chief Secretary, Department of Transport, Govt. of Rajasthan, Room No. 4102, Main Building, Rajasthan Sachivalaya, Jaipur, Rajasthan.
11. Principal Secretary, Department of Transport, Government of Haryana, Room No. 621, 6th Floor, New Secretariat Bldg. Sector 17, Chandigarh.
12. Principal Secretary cum Commissioner, Department of Transport, Government of NCT of Delhi 5/9, Under Hill Road, Ludlow Castle, Civil Lines, Delhi – 110054.
13. Principal Secretary, Urban Local Bodies, Uttar Pradesh, 201, Lok Bhawan, Lucknow, Uttar Pradesh.
14. Principal Secretary, Urban Local Bodies, Rajasthan, Food Building, Secretariat Jaipur, Rajasthan.
15. Principal Secretary, Urban Local Bodies, Haryana, 506, 5th Floor, New Civil Secretariat, Sector 17, Chandigarh.
16. Commissioner of Police, Delhi, New Police Hqrs., Jaisingh Road, New Delhi.
17. Director General of Police, Uttar Pradesh, Police Headquarters, 9th Floor, Tower -2, Gomti Nagar Ext., Shaheed Path, Lucknow, Uttar Pradesh.
18. Director General of Police, Rajasthan, Police Headquarters, Lal Kothi, Tonk Road, Jaipur, Rajasthan.
19. Director General of Police, Haryana, Police Headquarters, Sector-6, City-Panchkula, Haryana -134109.
20. Special Commissioner of Police (Traffic) Delhi, Delhi Police New Headquarters, Tower-I, 3rd Floor, Jaisingh Road, New Delhi.
21. Addl. Director General of Police, (Traffic) Uttar Pradesh, Police Headquarters, Signature Bldg. Gomti Nagar Vistar, Lucknow, Uttar Pradesh.
22. Addl. Director General of Police (Traffic), Rajasthan, Room No. 740, Police Headquarters, Nehru Palace, Tonk Road, Jaipur, Rajasthan.

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23. Inspector General of Police (Traffic & Highways), Haryana, Sector-7, Karnal, Haryana.
24. Chairman, National Highway Authority of India (NHAI), G 5&7, Sector 10, Dwarka, New Delhi – 110075.
25. Vice-Chairman, Delhi Development Authority (DDA), B Block, 1st Floor, Vikas Sadan, INA, New Delhi – 110023.
26. Chairman, New Delhi Municipal Council (NDMC), Palika Kendra, Parliament Street, New Delhi – 110001.
27. Commissioner, Municipal Corporation of Delhi, Civic Centre, 4th Floor, Minto Road, Delhi – 110002.
28. Engineer in chief (E in C-I/I, III) Municipal Corporation of Delhi, Civic Centre, Minto Road, New Delhi 110002.
29. Chief Executive Officer, Delhi Cantonment Board, Sadar Bazar Road, Delhi Cantonment, Delhi 110010.
30. Chairman, Central Pollution Control Board (CPCB), Parivesh Bhawan, East Arjun Nagar, Delhi – 110032.
31. Chairman, Uttar Pradesh Pollution Control Board, T C, 12 V, Vibhuti Khand, Gomati Nagar, Lucknow, Uttar Pradesh.
32. Chairman, Rajasthan Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongari, Jaipur, Rajasthan – 302004.
33. Chairman, Haryana Pollution Control Board, C-11, Sector 6, Panchkula, Haryana - 134109.
34. Chairman, Delhi Pollution Control Committee, 8th Floor, C Wing, Delhi Secretariat, IP Estate, Delhi – 110002.
35. Engineer-in-Chief, Public Work Department (PWD), Delhi, 12th Floor, Maso Building, Indraprastha Estate, New Delhi-110002.
36. Engineer-in-Chief, Public Works Department, Haryana, Nirman Sadan, Plot No.1, Dakshana Marg, Sector -33 A, Haryana PWD (B&R), Chandigarh.
37. Engineer-in-Chief, Public Works Department, Rajasthan, 170, Kamala Nehru Nagar, Ganpati Nagar, Jaipur, Rajasthan – 302007.
38. Engineer In Chief, U.P. Public Works Department, Nirman Bhavan, 96 M.G. Marg, Opp. Raj Bhavan, Lucknow-226001.
39. CMD, NTPC, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi – 110003.
40. Managing Director, DMRC Ltd., Metro Bhawan, Brigade Lane, Barakhamba Road, New Delhi – 110 001.
41. Managing Director & CEO, DIMTS, 8th Floor, A Block, IT Park Road, Metro Vihar, Shastri Park, Shahdara, New Delhi, Delhi -110053.
42. Managing Director, National Capital Region Transport Corporation, Gati Shakti Bhawan, INA, New Delhi – 110023.
43. Chairman cum Managing Director, NBCC Bhawan, Lodhi Rd, New Delhi - 110003.
44. Chairman, New Okhla Industrial Development Authority (NOIDA), Main Administrative Bldg. Sector 6, NOIDA, Uttar Pradesh.
45. Chairman, Greater Noida Industrial Development Authority, Plot No. 01, Knowledge Park -04, Greater NOIDA, Gautam Budh Nagar, UP – 201308.

46. Vice Chairman, Ghaziabad Development Authority, Vikas Path, Old Bus Stand, Ghaziabad, Uttar Pradesh – 201001.
47. Chief Executive Officer, Gurugram Metropolitan Development Authority, Metro Station, Plot No.3, Sector 44, Near HUDA City Centre, Gurugram, Haryana.
48. Member Secretary, Central Pollution Control Board (CPCB), Parivesh Bhawan, East Arjun Nagar, Delhi – 110032.
49. Member Secretary, Uttar Pradesh Pollution Control Board, TC-12V, Vibhuti Khand, Gomati Nagar, Lucknow, Uttar Pradesh – 226010.
50. Member Secretary, Rajasthan Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongari, Jaipur, Rajasthan – 302004.
51. Member Secretary, Haryana Pollution Control Board, C-11, Sector 5, Panchkula, Haryana – 134109.
52. Member Secretary, Delhi Pollution Control Committee, 6th Floor, C Wing, Delhi Secretariat, I P Estate, Delhi – 110002.
53. Chief Engineer, Urban Local Bodies, Haryana, Directorate of Urban Local Bodies, Bays No. 11-14, Sector 4, Panchkula, Haryana – 134112.
54. Chief Engineer, Directorate of Urban Local Bodies, Plot No. 18, Sector-7, Gomati Nagar, Uttar Pradesh.
55. Chief Engineer, Directorate of Urban Local Bodies, 22 Godam, Near Shiv Line Fatak, Jaipur, Rajasthan.
56. The Deputy Commissioner, Central Delhi, 14, Daryaganj, New Delhi – 110002.
57. The Deputy Commissioner, East Delhi, I. M Bund, Shastri Nagar, Delhi – 110031.
58. The Deputy Commissioner, New Delhi, 12/1, Jam Nagar House, Sahajahan Road, New Delhi – 110011.
59. The Deputy Commissioner, North Delhi, Alipur, Delhi – 110036.
60. The Deputy Commissioner, North East Delhi, DC Office Complex, Nand Nagari, Opposite Gagan Cinema, Delhi – 110093.
61. The Deputy Commissioner, North West Delhi, O/o of the Deputy Commissioner, Kanjhawala, Delhi – 110081.
62. The Deputy Commissioner, Shahdra, Nand Nagari, Opposite Gagan Cinema, Delhi – 110093.
63. The Deputy Commissioner, South Delhi, M B Road, Saket, New Delhi 110068.
64. The Deputy Commissioner, South East Delhi, Old Gargi College Building, Lajpat Nagar-IV, New Delhi – 110024.
65. The Deputy Commissioner, South West Delhi, Old Terminal Tax Building, Kapashera, New Delhi- 110037.
66. The Deputy Commissioner, West Delhi, Plot No. 3, Shivaji Palace, Near West Mail Gate, Raja Garden, New Delhi – 110027.
67. The District Magistrate, Meerut, Office of the District Magistrate, Collectorate, District Meerut, Uttar Pradesh – 250002.
68. The District Magistrate, Ghaziabad, District Magistrate Office, Collectorate, Rajnagar, Ghaziabad, Uttar Pradesh – 201001.
69. The District Magistrate, Shamli, Bara bazar, Shamli, Uttar Pradesh - 247776.
70. The District Magistrate, Bulandshahr Collectorate, Bulandshahr, Uttar Pradesh – 203001.

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71. The District Magistrate, Muzaffarnagar, Collectorate, (Near Prakash Chowk), District – Muzaffarnagar, Uttar Pradesh -251001.
72. The District Magistrate, Hapur, Collectorate, Hapur, Uttar Pradesh -245101.
73. The District Magistrate, Baghpat, Collectorate, Baghpat, Uttar Pradesh -250619.
74. The District Magistrate, Gautam Budhha Nagar, Tulsī Marg, Pocket G, Sector -27, Noida, Gautam Budhha Nagar, Uttar Pradesh -201301.
75. The Deputy Commissioner, Rohtak, Mini Secretariat, District Rohtak, Haryana - 124001.
76. The Deputy Commissioner, Gurugram, First Floor, Mini Secretariat, Gurugram
77. The Deputy Commissioner, Sonapat, Mini Secretariat, District Sonapat, Haryana – 131001.
78. The Deputy Commissioner, Panipat, 1st Floor, Mini Secretariat, District Panipat, Haryana – 132103.
79. The Deputy Commissioner, Karnal, Mail Road, Karnal, District Karnal, Haryana – 132001.
80. The Deputy Commissioner, Faridabad, Room No.- 111, 1st Floor, Mini Secretariat, Sec-12, Faridabad -121004.
81. The Deputy Commissioner, Bhiwani, Commissioners' Office, Bhiwani, Haryana - **127021**.
82. The Deputy Commissioner, Rewari, Mini Secretariat, Bawal Road, Rajiv Chowk, Rewari, Haryana – 123401.
83. The Deputy Commissioner, Mahendragarh 1st Floor Mini Secretariat, Narnaul, Mahendragarh, Haryana.
84. The Deputy Commissioner, Palwal, Room No-201, Second Floor, Mini Secretariat, Palwal, Haryana- 121102.
85. The Deputy Commissioner, Nuh, Second Floor, Mini Secretariat Nuh, Haryana – 122107.
86. The Deputy Commissioner, Jhajjar, Mini Secretariat, DC Office, Jhajjar, Haryana – 124103.
87. The Deputy Commissioner, Charkhi Dadri, Mini Secretariat, Charkhi Dadri, Haryana.
88. The Deputy Commissioner, Jind, O/o Deputy Commissioner, Mini Secretariat, Jind, Haryana -126102.
89. The District Collector & Magistrate, Collectorate, Rajendra Nagar, Bharatpur, Rajasthan – 321001.
90. The District Collector & Magistrate, Mohalla Ladiya, Alwar, Rajasthan – 301001.
91. The Commissioner, Meerut Nagar Nigam, Near Ghanta Ghar, Kaiser Garj Road, Meerut – 250002.
92. The Commissioner, Ghaziabad Nagar Nigam, Navyug Market, Opp. Old Bus Stand, Ghaziabad, Uttar Pradesh – 201001.
93. The Chairman, Nagar Palika Parishad Shamli Mill Road, Shamli, Uttar Pradesh – 247776.
94. The Chairman, Nagar Palika, Bulandshahr, Uttar Pradesh.
95. The Chairman, Nagar Palika Parishad, SD Area, Muzaffarnagar, Uttar Pradesh – 251002.
96. The Chairman, Nagar Palika Parishad, Hapur, Lothi Gate Nagar, Atarpura Chopla, Hapur, Uttar Pradesh -245101.

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97. The Chairman, Nagar Palika Prishad, Baghpat, Uttar Pradesh.
98. Chief Executive Officer, Gautam Budhha Nagar, Uttar Pradesh.
99. The Commissioner, Municipal Corporation Rohtak, Ambedkar Chowk, M C Office, Opp. BSNL Office, Rohtak, Haryana – 124001.
100. The Commissioner, Municipal Corporation Sonapat, Near Railway Station, Railway Road, Sonapat, Haryana – 131001.
101. The Commissioner, Municipal Corporation Panipat, Tau Devi Lal Complex, Railway Road, Panipat, Haryana – 132103.
102. The Commissioner, Municipal Corporation Kamal, Sector-12, (near Mini Secretariat), Urban State, Kamal, Haryana – 132001.
103. The Commissioner, Municipal Corporation Faridabad, B.K Chowki, New Industrial Town, Faridabad, Haryana – 121001.
104. The Commissioner, Municipal Corporation Gurugram, C 1, Info City, Sector 34, Gurugram, Haryana -122001.
105. The District Municipal Commissioner, Bhiwani Municipal Committee, Near Railway Station, Bhiwani, Haryana.
106. The Additional Deputy Commissioner, Municipal Council Rewari, Bharawas Rd, Near Agarsen Chowk, Bhajan Ka Bagh, Raam Bagh Mahalla Rewari, Haryana -123401.
107. The District Municipal Commissioner, Municipal Council Narnaul, Near PWD Rest House, Narnaul, Mahendragarh, Haryana.
108. The Deputy Commissioner, Municipal Council, Palwal, Second Floor, Mini Secretariat, Palwal, Haryana- 121102.
109. The Executive Officer, Municipal Committee, Nuh, Near Sabzi Mandi, Civil Lines, Nuh, Haryana - 122107.
110. The Executive Officer, Municipal Council, Jhajar, Chhuchhakwas Road, Jhajar, Haryana - 124103.
111. The Deputy Commissioner, Municipal Council, Mini Secretariat, District Charkhi Dadri, Haryana.
112. The Deputy Commissioner, Municipal Council, Police Lines, District Jind, Haryana - 126102.
113. The Commissioner, Nagar Nigam Bharatpur, Mathura Gate, Bharatpur, Rajasthan – 321001.
114. The Commissioner, Nagar Parishad, Alwar Church Road, Alwar, Rajasthan.
115. The Chief Executive Officer (CEO), Plot No. 3, Sector 44, Near HUDA City Centre Metro Station, Gurugram, Haryana – 122003.
116. Chief Controller of Explosives, PESO, CGO Complex, 5th, A Block, Seminary Hills, Nagpur, Maharashtra – 440001.
117. Managing Director, BSES Rajdhani Power Limited, BSES Rajdhani Power Limited, BSES Bhawan, Nehru Place, New Delhi - 110019.
118. The Managing Director, BSES Yamuna Power Limited, Shakti Kiran Building, Vishwas Nagar, Shahdara, Delhi -110032.
119. Chief Executive Officer, Tata Power Delhi Distribution Limited (TPDDL), Tata Power Delhi Distribution Ltd, Hudson Lines, Kingsway Camp, Delhi-110 009.
120. Managing Director, Uttar Haryana Vidyut Vitran Nigam Limited (UHVVN) Vidyut Sadan, Plot No. C-16, Sector-6, Panchkula, Haryana.

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121. Managing Director, Dakshani Haryana Vidyut Vitran Nigam Limited (DHVVNL), Vidyut Sadan, Vidyut Nagar, Hisar, Haryana -125005.
122. Managing Director, Pashchimanchal Vidyut Vitran Nigam Limited (PVVNL), Urja Bhawan, Victoria Park, Meerut, Uttar Pradesh - 250001.
123. Managing Director, Noida Power Company Limited (NPCL) Commercial Complex, 1st Avenue, Pocket H, Sector Alpha II, Greater Noida, Uttar Pradesh.
124. Managing Director, Jaipur Vidyut Vitran Nigam Limited (JVNL), Vidyut Bhawan, Jyoti Nagar, Jaipur, Rajasthan - 302005.
125. Managing Director, Bharatpur Electricity Service Limited (JVNL) Vidyut Bhawan, Jyoti Nagar, Jaipur, Rajasthan - 302005.
126. Managing Director, Delhi Transport Corporation (DTC), Government of National Capital Territory of Delhi, DTC Headquarters, IP Estate, New Delhi-110002.
127. Managing Director, U P State Road Transport Corporation, Tehri Kothi, MG Marg, Lucknow, Uttar Pradesh - 226 001.
128. Managing Director, State Road Transport Corporation of Haryana, 30 Bays Building, 2nd Floor, Sector - 17C, Chandigarh - 160017.
129. Managing Director, Rajasthan State Road Transport Corporation, Parivahan Marg, Chaumu House, Jaipur, Rajasthan - 302 001
130. The Chief Engineer (O&M), Rajiv Gandhi Thermal Power Project, Haryana Power Generation Corporation Ltd., Tehsil, Khedar, Barwala, Vidyut Sadan Vidyut Nagar Hisar, Haryana - 125 122.
131. The Chief Engineer (O&M), Deen Bandhu Chhotu Ram Thermal Power Station, Haryana Power Generation Corporation Ltd, Village- Pansara, Yamunanagar - 135 004.
132. The Chief Engineer (O&M), Panipat Thermal Power Station, Haryana Power Generation Corporation Ltd, Village Assan, Jind Road, Panipat, Haryana - 132 105.
133. Sr. Vice President (O&M), Jhajjar Power Ltd., Mahatma Gandhi Thermal Power Plant, CLP India Ltd, Tehsil- Matanhai, Dist- Jhajjar, Haryana - 124106
134. Plant in charge, Harduaganj Thermal Power Station, **Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited**, 14, Ashok Marg, Shakti Bhavan, Lucknow
135. The Chief Engineer (O&M) Talwandi Sabo Power Ltd, Village - Banawala, Mansa, Talwandi Sabo Road, Mansa - 151 302.
136. Sr. Vice President (O&M), Rajpura Thermal Power Plant, Nabha Power Ltd, Nalash/Nalas Village, Rajpura, Dist. Patiala, Punjab.
137. The Chief Engineer (O&M), Guru Gobind Singh Thermal Power Station, Punjab State Electricity Board, Ropar, Punjab.
138. The Chief Engineer (O&M), Guru Hargobind Singh Thermal Power Station, Punjab State Electricity Board Lehra Mohabbat, Bhatinda, Punjab.
139. Chief General Manager, National Capital Thermal Power Station (NCTPS) National Thermal Power Corporation, Dadri, Dist. Gautam Budhnagar, Uttar Pradesh -201 008.
140. The Chief Engineer (O&M) Rajiv Gandhi Thermal Power Project, Haryana Power Generation Corporation Ltd., Tehsil, Khedar, Barwala, Hisar, Haryana - 125 122.

Copy for information and appropriate action to:

1. The Chairman and CEO, Railway Board, Raisina Road, Central Secretariat, New Delhi, Delhi 110001.
2. The Secretary, Department of Personnel and Training (DoPT), Government of India, Room No. – 112, North Block, New Delhi – 110 001
3. The Director General, Central Public Work Department (CPWD) A-Wing, Room No. 101 Nirman Bhawan, New Delhi

Copy also to:

1. The Secretary, Ministry of Environment, Forest and Climate Change, Government of India, Indira Paryavaran Bhawan, Jor Bagh, New Delhi – 110 003.
2. The Defence Secretary, Ministry of Defence, Government of India, South Block, New Delhi – 110 001.
3. The Secretary, Ministry of Petroleum and Natural Gas, Government of India, Shastri Bhawan, New Delhi – 110 001.
4. The Secretary, Ministry of Road Transport and Highways, Government of India, Transport Bhawan, New Delhi – 110 001.
5. The Secretary, Ministry of Power, Government of India, Rafi Marg, Shram Shakti Bhawan, New Delhi, Delhi 110001
6. The Secretary, Department of Telecommunication, Ministry of Communication & IT, Government of India, Sanchar Bhawan, 20 Ashoka Road, New Delhi-110 001
7. The Chairperson and all Members (including Associate Members), CAQM



(R.K. Agrawal)

Director (Technical)

(Member & Convenor of Sub-Committee on GRAP)



No.120017/27/GRAP/2021/CAQM/4572

27th February, 2024

ORDER

Sub.: Revocation of actions under stage I ('Poor' Air quality, AQI: 201-300) of GRAP.

The Commission for Air Quality Management in NCR and adjoining areas, vide Direction No. 77 dated 6th October, 2023, had issued statutory direction for implementation of the revised schedule of the Graded Response Action Plan (GRAP). The same is also available on the CAQM website (caqm.nic.in).

2. Based on the decision of the Sub-Committee actions under Stage-I were first invoked vide CAQM order dated 06.10.2023, pursuant to forecast of deterioration in the average Air quality of Delhi due to calm winds and stable atmospheric conditions as per forecast of IITM/IMD.

3. Currently, Stage-I of GRAP is in force in NCR pursuant to revocation of stage-II on 19.02.2024. Subsequently, from time to time, based on the Air Quality in Delhi and predictions by IMD/IITM, further stages of GRAP were also imposed/revoked. GRAP Stage- IV, Stage-III and Stage- II were withdrawn on 18.11.2023, 18.01.2024 and 19.02.2024 respectively.

4. The sub-Committee in its meeting held on 27th February, 2024 further reviewed the air quality scenario in the region as well as the IMD/IITM forecasts for meteorological conditions and air quality index of Delhi and observed as under:

"Average AQI of Delhi has improved considerably during last few days and is in "Moderate" category with an AQI of less than 200 consistently since 22nd February, 2024 onwards. The forecast by IMD/IITM also predicts the AQI levels to be in "Moderate category" in coming days".

5. The sub-Committee, accordingly, hereby decides to revoke the order, issued on 06.10.2023, for actions under Stage-I of the GRAP with immediate effect.

6. All the agencies concerned of the State Govts./GNCTD in the NCR, in an effort to sustain the better AQI levels as being experienced currently and not to let the air quality slip to the "Poor" category, however need to ensure that all statutory directions, advisories, orders etc. issued by the Commission are followed and implemented in right earnest, including the rules/regulations/guidelines issued by MoEFCC and the Central Pollution Control Board and related instructions/ guidelines issued by the respective

17 वीं मंजिल, जवाहर व्यापार भवन (एस. टी.सी. बिल्डिंग), टोलट्रय मार्ग, नई दिल्ली-110001

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State Govts./GNCTD and Pollution Control Boards/DPCC, across all contributing sectors.

7. In this context, all the agencies concerned are also required to take note of various actions and the targeted timelines as envisaged in the comprehensive policy issued by the Commission to curb air pollution in the NCR and take appropriate actions accordingly in the field.

8. The sub-Committee shall be keeping a close watch on the air quality scenario and may take appropriate decisions depending on the air quality, as recorded from time to time, and the forecasts made by IMD/IITM to this effect.



Director (Technical)

(Member & Convener of Sub-Committee on GRAP)

To:

1. The Chief Secretary, Government of Uttar Pradesh, 101, Lok Bhawan, U. P. Civil Secretariat, Vidhan Sabha Marg, Lucknow - 226 001.
2. The Chief Secretary, Government of Rajasthan, Government Secretariat, Jaipur, Rajasthan - 302 005.
3. The Chief Secretary, Government of Haryana, 4th Floor, Civil Secretariat, Sector - 1, Chandigarh.
4. The Chief Secretary, Government of NCT of Delhi, 3rd Floor, Delhi Secretariat, I. P. Estate, New Delhi - 110 002.
5. Additional Chief Secretary / Principal Secretary, Department of Environment, Uttar Pradesh.
6. Additional Chief Secretary, Department of Environment, Room No. 335, 3rd Floor, Haryana New Secretariat, Sector 17, Chandigarh.
7. Additional Chief Secretary / Principal Secretary, Department of Environment, Government of NCT of Delhi, Room No. 801, 8th Floor, B Wing, Delhi Secretariat, Delhi - 110002.
8. Principal Secretary, Department of Environment, Room No. 4224, 2nd Floor, Main Building, Government of Rajasthan Sectt. Jaipur.
9. Principal Secretary, Department of Transport, Government of Uttar Pradesh, Room No. 701, Babu Bhawan, Hazratganj, Lucknow, Uttar Pradesh.
10. Addl. Chief Secretary, Department of Transport, Govt. of Rajasthan, Room No. 4102, Main Building, Rajasthan Sachivalya, Jaipur, Rajasthan.
11. Principal Secretary, Department of Transport, Government of Haryana, Room No. 621, 6th Floor, New Secretariat Bldg. Sector 17, Chandigarh.
12. Principal Secretary cum Commissioner, Department of Transport, Government of NCT of Delhi 5/9, Under Hill Road, Ludlow Castle, Civil Lines, Delhi - 110054.
13. Principal Secretary, Urban Local Bodies, Uttar Pradesh, 201, Lok Bhawan, Lucknow, Uttar Pradesh.
14. Principal Secretary, Urban Local Bodies, Rajasthan, Food Building, Secretariat Jaipur, Rajasthan.
15. Principal Secretary, Urban Local Bodies, Haryana, 506, 5th Floor, New Civil Secretariat, Sector 17, Chandigarh.
16. Commissioner of Police, Delhi, New Police Hqrs., Jaisingh Road, New Delhi.
17. Director General of Police, Uttar Pradesh, Police Headquarters, 9th Floor, Tower -2, Gomti Nagar Ext., Shaheed Path, Lucknow, Uttar Pradesh.
18. Director General of Police, Rajasthan, Police Headquarters, Lal Kothi, Tonk Road, Jaipur, Rajasthan.
19. Director General of Police, Haryana, Police Headquarters, Sector-6, City-Panchkula, Haryana -134109.
20. Special Commissioner of Police (Traffic) Delhi, Delhi Police New Headquarters, Tower-I, 3rd Floor, Jaisingh Road, New Delhi.

21. Addl. Director General of Police, (Traffic) Uttar Pradesh, Police Headquarters, Signature Bldg. Gomati Nagar Vistar, Lucknow, Uttar Pradesh.
22. Addl. Director General of Police (Traffic), Rajasthan, Room No. 740, Police Headquarters, Nehru Palace, Tonk Road, Jaipur, Rajasthan.
23. Inspector General of Police (Traffic & Highways), Haryana, Sector-7, Karnal, Haryana.
24. Chairman, National Highway Authority of India (NHAI), G 5&7, Sector 10, Dwarka, New Delhi - 110075.
25. Vice-Chairman, Delhi Development Authority (DDA), B Block, 1st Floor, Vikas Sadan, INA, New Delhi - 110023.
26. Chairman, New Delhi Municipal Council (NDMC), Palika Kendra, Parliament Street, New Delhi - 110001.
27. Commissioner, Municipal Corporation of Delhi, Civic Centre, 4th Floor, Minto Road, Delhi - 110002.
28. Engineer in chief (E in C-I, II, III) Municipal Corporation of Delhi, Civic Centre, Minto Road, New Delhi 110002.
29. Chief Executive Officer, Delhi Cantonment Board, Sadar Bazar Road, Delhi Cantonment, Delhi 110010.
30. Chairman, Central Pollution Control Board (CPCB), Parivesh Bhawan, East Arjun Nagar, Delhi - 110032.
31. Chairman, Uttar Pradesh Pollution Control Board, T C, 12 V, Vibhuti Khand, Gomati Nagar, Lucknow, Uttar Pradesh.
32. Chairman, Rajasthan Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongari, Jaipur, Rajasthan - 302004.
33. Chairman, Haryana Pollution Control Board, C-11, Sector 6, Panchkula, Haryana - 134109.
34. Chairman, Delhi Pollution Control Committee, 6th Floor, C Wing, Delhi Secretariat, IP Estate, Delhi - 110002.
35. Engineer-in-Chief, Public Work Department (PWD), Delhi, 12th Floor, Maso Building, Indraprastha Estate, New Delhi-110002.
36. Engineer-in-Chief, Public Works Department, Haryana, Nirman Sadan, Plot No.1, Dakshana Marg, Sector -33 A, Haryana PWD (B&R), Chandigarh.
37. Engineer-in-Chief, Public Works Department, Rajasthan, 170, Kamala Nehru Nagar, Ganpati Nagar, Jaipur, Rajasthan - 302007.
38. Engineer In Chief, U.P. Public Works Department, Nirman Bhavan, 96 M.G. Marg, Opp. Raj Bhavan, Lucknow-226001.
39. CMD, NTPC, NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi - 110003.
40. Managing Director, DMRC Ltd., Metro Bhawan, Brigade Lane, Barakhamba Road, New Delhi - 110 001.
41. Managing Director & CEO, DIMTS, 8th Floor, A Block, IT Park Road, Metro Vihar, Shastri Park, Shahdara, New Delhi, Delhi - 110053.
42. Managing Director, National Capital Region Transport Corporation, Gati Shakti Bhawan, INA, New Delhi - 110023.

17 वीं मजिल, जवाहर व्यापार भवन (एस. टी. सी. बिल्डिंग), टॉलस्टॉय मार्ग, नई दिल्ली-110001

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43. Chairman cum Managing Director, NBCC Bhawan, Lodhi Rd, New Delhi - 110003
44. Chairman, New Okhla Industrial Development Authority (NOIDA), Main Administrative Bldg. Sector 6, NOIDA, Uttar Pradesh.
45. Chairman, Greater Noida Industrial Development Authority, Plot No. 01, Knowledge Park -04, Greater NOIDA, Gautam Budh Nagar, UP - 201308.
46. Vice Chairman, Ghaziabad Development Authority, Vikas Path, Old Bus Stand, Ghaziabad, Uttar Pradesh - 201001.
47. Chief Executive Officer, Gurugram Metropolitan Development Authority, Metro Station, Plot No3, Sector 44, Near HUDA City Centre, Gurugram, Haryana.
48. Member Secretary, Central Pollution Control Board (CPCB), Parivesh Bhawan, East Arjun Nagar, Delhi - 110032.
49. Member Secretary, Uttar Pradesh Pollution Control Board, TC-12V, Vibhuti Khand, Gomati Nagar, Lucknow, Uttar Pradesh - 226010.
50. Member Secretary, Rajasthan Pollution Control Board, 4, Jhalana Institutional Area, Jhalana Doongari, Jaipur, Rajasthan - 302004.
51. Member Secretary, Haryana Pollution Control Board, C-11, Sector 6, Panchkula, Haryana - 134109.
52. Member Secretary, Delhi Pollution Control Committee, 6th Floor, C Wing, Delhi Secretariat, I P Estate, Delhi - 110002.
53. Chief Engineer, Urban Local Bodies, Haryana, Directorate of Urban Local Bodies, Bays No. 11-14, Sector 4, Panchkula, Haryana - 134112.
54. Chief Engineer, Directorate of Urban Local Bodies, Plot No. 18, Sector-7, Gomati Nagar, Uttar Pradesh.
55. Chief Engineer, Directorate of Urban Local Bodies, 22 Godam, Near Shiv Line Fatak, Jaipur, Rajasthan.
56. The Deputy Commissioner, Central Delhi, 14, Daryaganj, New Delhi - 110002.
57. The Deputy Commissioner, East Delhi, L M Bund, Shastri Nagar, Delhi - 110031.
58. The Deputy Commissioner, New Delhi, 12/1, Jam Nagar House, Sahajahan Road, New Delhi - 110011.
59. The Deputy Commissioner, North Delhi, Alipur, Delhi - 110036.
60. The Deputy Commissioner, North East Delhi, DC Office Complex, Nand Nagari, Opposite Gagan Cinema, Delhi - 110093.
61. The Deputy Commissioner, North West Delhi, O/o of the Deputy Commissioner, Kanjhawala, Delhi - 110081.
62. The Deputy Commissioner, Shahdra, Nand Nagari, Opposite Gagan Cinema, Delhi - 110093.
63. The Deputy Commissioner, South Delhi, M B Road, Saket, New Delhi 110068.
64. The Deputy Commissioner, South East Delhi, Old Gargi College Building, Lajpat Nagar-IV, New Delhi - 110024.

65. The Deputy Commissioner, South West Delhi, Old Terminal Tax Building, Kapashera, New Delhi- 110037.
66. The Deputy Commissioner, West Delhi, Plot No. 3, Shivaji Palace, Near West Mall Gate, Raja Garden, New Delhi - 110027.
67. The District Magistrate, Meerut, Office of the District Magistrate, Collectorate, District Meerut, Uttar Pradesh - 250002.
68. The District Magistrate, Ghaziabad, District Magistrate Office, Collectorate, Rajnagar, Ghaziabad, Uttar Pradesh - 201001.
69. The District Magistrate, Shamli, Bara bazar, Shamli, Uttar Pradesh - 247776
70. The District Magistrate, Bulandshahr Collectorate, Bulandshahr, Uttar Pradesh - 203001.
71. The District Magistrate, Muzaffarnagar, Collectorate, (Near Prakash Chowk), District - Muzaffarnagar, Uttar Pradesh -251001.
72. The District Magistrate, Hapur, Collectorate, Hapur, Uttar Pradesh - 245101.
73. The District Magistrate, Baghpat, Collectorate, Baghpat, Uttar Pradesh - 250619.
74. The District Magistrate, Gautam Budhha Nagar, Tulsi Marg, Pocket G, Sector -27, Noida, Gautam Budhha Nagar, Uttar Pradesh -201301.
75. The Deputy Commissioner, Rohtak, Mini Secretariat, District Rohtak, Haryana - 124001.
76. The Deputy Commissioner, Gurugram, First Floor, Mini Secretariat, Gurugram
77. The Deputy Commissioner, Sonapat, Mini Secretariat, District Sonapat, Haryana - 131001.
78. The Deputy Commissioner, Panipat, 1st Floor, Mini Secretariat, District Panipat, Haryana - 132103.
79. The Deputy Commissioner, Karnal, Mall Road, Karnal, District Karnal, Haryana - 132001.
80. The Deputy Commissioner, Faridabad, Room No.- 111, 1st Floor, Mini Secretariat, Sec-12, Faridabad -121004.
81. The Deputy Commissioner, Bhiwani, Commissioners' Office, Bhiwani, Haryana - **127021**.
82. The Deputy Commissioner, Rewari, Mini Secretariat, Bawal Road, Rajiv Chowk, Rewari, Haryana - 123401.
83. The Deputy Commissioner, Mahendragarh 1st Floor Mini Secretariat, Narnaul, Mahendragarh, Haryana.
84. The Deputy Commissioner, Palwal, Room No-201, Second Floor, Mini Secretariat, Palwal, Haryana- 121102.
85. The Deputy Commissioner, Nuh, Second Floor, Mini Secretariat Nuh, Haryana - 122107.
86. The Deputy Commissioner, Jhajjar, Mini Secretariat, DC Office, Jhajjar, Haryana - 124103.

87. The Deputy Commissioner, Charkhi Dadri, Mini Secretariat, Charkhi Dadri, Haryana.
88. The Deputy Commissioner, Jind, O/o Deputy Commissioner, Mini Secretariat, Jind, Haryana - 126102.
89. The District Collector & Magistrate, Collectorate, Rajendra Nagar, Bharatpur, Rajasthan - 321001.
90. The District Collector & Magistrate, Mohalla Ladiya, Alwar, Rajasthan - 301001.
91. The Commissioner, Meerut Nagar Nigam, Near Ghanta Ghar, Kaiser Garj Road, Meerut - 250002.
92. The Commissioner, Ghaziabad Nagar Nigam, Navyug Market, Opp. Old Bus Stand, Ghaziabad, Uttar Pradesh - 201001.
93. The Chairman, Nagar Palika Parishad Shamli Mill Road, Shamli, Uttar Pradesh - 247776.
94. The Chairman, Nagar Palika, Bulandshahr, Uttar Pradesh.
95. The Chairman, Nagar Palika Parishad, SD Area, Muzaffarnagar, Uttar Pradesh - 251002.
96. The Chairman, Nagar Palika Parishad, Hapur, Lothi Gate Nagar, Atarpura Chopla, Hapur, Uttar Pradesh - 245101.
97. The Chairman, Nagar Palika Prishad, Baghpat, Uttar Pradesh.
98. Chief Executive Officer, Gautam Budhha Nagar, Uttar Pradesh.
99. The Commissioner, Municipal Corporation Rohtak, Ambedkar Chowk, M C Office, Opp. BSNL Office, Rohtak, Haryana - 124001.
100. The Commissioner, Municipal Corporation, Sonapat, Near Railway Station, Railway Road, Sonapat, Haryana - 131001.
101. The Commissioner, Municipal Corporation Panipat, Tau Devi Lal Complex, Railway Road, Panipat, Haryana - 132103.
102. The Commissioner, Municipal Corporation Karnal, Sector-12, (near Mini Secretariat), Urban State, Karnal, Haryana - 132001.
103. The Commissioner, Municipal Corporation Faridabad, B.K Chowki, New Industrial Town, Faridabad, Haryana - 121001.
104. The Commissioner, Municipal Corporation Gurugram, C 1, Info City, Sector 34, Gurugram, Haryana - 122001.
105. The District Municipal Commissioner, Bhiwani Municipal Committee, Near Railway Station, Bhiwani, Haryana.
106. The Additional Deputy Commissioner, Municipal Council Rewari, Bharawas Rd, Near Agarsen Chowk, Bhajan Ka Bagh, Raam Bagh Mahalla Rewari, Haryana - 123401.
107. The District Municipal Commissioner, Municipal Council Narnaul, Near PWD Rest House, Narnaul, Mahendragarh, Haryana.
108. The Deputy Commissioner, Municipal Council, Palwal, Second Floor, Mini Secretariat, Palwal, Haryana - 121102.
109. The Executive Officer, Municipal Committee, Nuh, Near Sabzi Mandi, Civil Lines, Nuh, Haryana - 122107.

110. The Executive Officer, Municipal Council, Jhajjar, Chhuchhakwas Road, Jhajjar, Haryana - 124103.
111. The Deputy Commissioner, Municipal Council, Mini Secretariat, District Charkhi Dadri, Haryana.
112. The Deputy Commissioner, Municipal Council, Police Lines, District Jind, Haryana - 126102.
113. The Commissioner, Nagar Nigam Bharatpur, Mathura Gate, Bharatpur, Rajasthan - 321001.
114. The Commissioner, Nagar Parishad, Alwar Church Road, Alwar, Rajasthan.
115. The Chief Executive Officer (CEO), Plot No. 3, Sector 44, Near HUDA City Centre Metro Station, Gurugram, Haryana - 122003.
116. Chief Controller of Explosives, PESO, CGO Complex, 5th, A Block, Seminary Hills, Nagpur, Maharashtra - 440001.
117. Managing Director, BSES Rajdhani Power Limited, BSES Rajdhani Power Limited, BSES Bhawan, Nehru Place, New Delhi - 110019.
118. The Managing Director, BSES Yamuna Power Limited, Shakti Kiran Building, Vishwas Nagar, Shahdara, Delhi - 110032.
119. Chief Executive Officer, Tata Power Delhi Distribution Limited (TPDDL), Tata Power Delhi Distribution Ltd, Hudson Lines, Kingsway Camp, Delhi - 110009.
120. Managing Director, Uttar Haryana Vidyut Vitran Nigam Limited (UHVVNL), Vidyut Sadan, Plot No. C-16, Sector-6, Panchkula, Haryana.
121. Managing Director, Dakshani Haryana Vidyut Vitran Nigam Limited (DHVVNL), Vidyut Sadan, Vidyut Nagar, Hisar, Haryana - 125005.
122. Managing Director, Pashchimanchal Vidyut Vitran Nigam Limited (PVVNL), Urja Bhawan, Victoria Park, Meerut, Uttar Pradesh - 250001.
123. Managing Director, Noida Power Company Limited (NPCL) Commercial Complex, 1st Avenue, Pocket H, Sector Alpha II, Greater Noida, Uttar Pradesh.
124. Managing Director, Jaipur Vidyut Vitran Nigam Limited (JVVNL), Vidyut Bhawan, Jyoti Nagar, Jaipur, Rajasthan - 302005.
125. Managing Director, Bharatpur Electricity Service Limited (JVVNL) Vidyut Bhawan, Jyoti Nagar, Jaipur, Rajasthan - 302005.
126. Managing Director, Delhi Transport Corporation (DTC), Government of National Capital Territory of Delhi, DTC Headquarters, IP Estate, New Delhi - 110002.
127. Managing Director, U P State Road Transport Corporation, Tehri Kothi, MG Marg, Lucknow, Uttar Pradesh - 226 001.
128. Managing Director, State Road Transport Corporation of Haryana, 30 Bays Building, 2nd Floor, Sector - 17C, Chandigarh - 160017.
129. Managing Director, Rajasthan State Road Transport Corporation, Parivahan Marg, Chaumu House, Jaipur, Rajasthan - 302 001.

130. The Chief Engineer (O&M), Rajiv Gandhi Thermal Power Project, Haryana Power Generation Corporation Ltd., Tehsil, Khedar, Barwala, Vidut Sadan Vidut Nagar Hisar, Haryana - 125 122.
131. The Chief Engineer (O&M), Deen Bandhu Chhotu Ram Thermal Power Station, Haryana Power Generation Corporation Ltd, Village- Pansara, Yamunanagar - 135 004.
132. The Chief Engineer (O&M), Panipat Thermal Power Station, Haryana Power Generation Corporation Ltd, Village Assan, Jind Road, Panipat, Haryana - 132 105.
133. Sr. Vice President (O&M), Jhajjar Power Ltd., Mahatma Gandhi Thermal Power Plant, CLP India Ltd, Tehsil- Matanhai, Dist- Jhajjar, Haryana - 124106.
134. Plant in charge, Harduaganj Thermal Power Station, **Uttar Pradesh Rajya Vidut Utpadan Nigam Limited**, 14, Ashok Marg, Shakti Bhavan, Lucknow
135. The Chief Engineer (O&M) Talwandi Sabo Power Ltd, Village - Banawala, Mansa, Talwandi Sabo Road, Mansa - 151 302.
136. Sr. Vice President (O&M), Rajpura Thermal Power Plant, Nabha Power Ltd, Nalash/Nalas Village, Rajpura, Dist. Patiala, Punjab.
137. The Chief Engineer (O&M), Guru Gobind Singh Thermal Power Station, Punjab State Electricity Board, Ropar, Punjab.
138. The Chief Engineer (O&M), Guru Hargobind Singh Thermal Power Station, Punjab State Electricity Board Lehra Mohabbat, Bhatinda, Punjab.
139. Chief General Manager, National Capital Thermal Power Station (NCTPS) National Thermal Power Corporation, Dadri, Dist: Gautam Budhnagar, Uttar Pradesh -201 008.
140. The Chief Engineer (O&M) Rajiv Gandhi Thermal Power Project, Haryana Power Generation Corporation Ltd., Tehsil, Khedar, Barwala, Hisar, Haryana - 125 122.

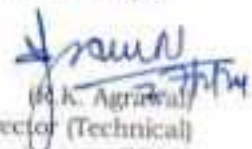
Copy for information and appropriate action to:

1. The Chairman and CEO, Railway Board, Raisina Road, Central Secretariat, New Delhi, Delhi 110001.
2. The Secretary, Department of Personnel and Training (DoPT), Government of India, Room No. - 112, North Block, New Delhi - 110 001
3. The Director General, Central Public Work Department (CPWD) A-Wing, Room No. 101 Nirman Bhawan, New Delhi
4. The Additional Chief Secretary, Health Department, Govt. of Haryana
5. The Additional Chief Secretary, Medical Health & Family Welfare Department, Govt. of Rajasthan
6. The Principal Secretary, Medical Health & Family Welfare, Govt. of Uttar Pradesh

7. The Secretary, Health & Family Welfare, Govt. of NCT of Delhi

Copy also to:

1. The Secretary, Ministry of Environment, Forest and Climate Change, Government of India, Indira Paryavaran Bhawan, Jor Bagh, New Delhi
2. The Defence Secretary, Ministry of Defence, Government of India, South Block, New Delhi - 110 001.
3. The Secretary, Ministry of Petroleum and Natural Gas, Government of India, Shastri Bhawan, New Delhi - 110 001.
4. The Secretary, Ministry of Road Transport and Highways, Government of India, Transport Bhawan, New Delhi - 110 001.
5. The Secretary, Ministry of Power, Government of India, Rafi Marg, Shram Shakti Bhavan, New Delhi, Delhi 110001
6. The Secretary, Department of Telecommunication, Ministry of Communication & IT, Government of India, Sanchar Bhawan, 20 Ashoka Road, New Delhi
7. The Chairperson and all Members (including Associate Members), CAQM


(H.K. Agrawal)
Director (Technical)
(Member & Convenor of Sub-Committee on GRAP)

CUMULATIVE IMPACT ASSESSMENT OF NEARBY INDUSTRIES

Bawana Industrial Area, located in North-West Delhi, is one of the largest industrial hubs in the region. Established to promote industrial growth and development, Bawana Industrial Area hosts a wide range of manufacturing and service industries, contributing significantly to the local economy. The area was developed by the Delhi State Industrial and Infrastructure Development Corporation (DSIIDC) to accommodate the relocation of industries from non-conforming areas within Delhi, thereby promoting a more organized and environmentally sustainable industrial development.

Spread across several acres, Bawana Industrial Area is strategically positioned to benefit from its proximity to major transportation networks, including highways and railways, facilitating easy access to raw materials and markets. The industrial area includes a variety of sectors such as textiles, plastics, chemicals, engineering and electronics among others. It is equipped with essential infrastructure, including roads, water supply, power and waste management facilities, ensuring a conducive environment for industrial operations. Additionally, the presence of various amenities and support services further enhances its appeal as a prime location for industrial enterprises.

The proposed project is located in Bawana Industrial Area in which more than thousand small and medium size industries are existing. Most of the industries are non-polluting and have very less impact on the environment. However, there are 2-3 major industries are operating in the vicinity of the proposed WtE project. These industries are as follows;

1. WtE plant of Delhi Municipal Solid Waste Solutions Limited (DMSWSL), Bawana.
2. Treatment Storage Disposal Facility (TSDF), Bawana.
3. Pragati Power Corporation Limited (PPCL), Bawana.

Within 15km radius of the proposed WtE plant there are 5 major industries which are in operation. The map showing these industries is depicted below:-

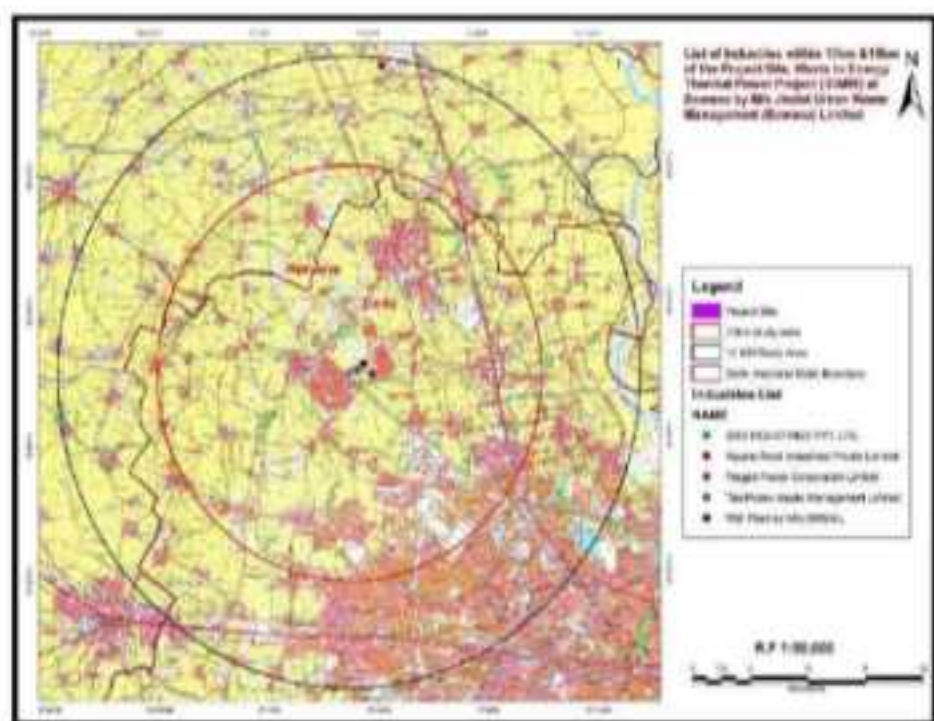


Figure 1: 15km Study area of waste to energy project, Bawana

Since, DGC Industries Pvt. Ltd and Kayem Food Industries Private Limited are located well beyond 10km radius of the proposed WtE plant, the impact caused by these industries has not been taken into consideration for this cumulative impact study.

An effort has been undertaken to assess the cumulative impact of existing projects within 15 km radius of the proposed WtE plant, drawing upon primary data from above-mentioned nearby projects and secondary sources including Environmental Impact Assessment (EIA) reports and information gathered through internet research. The assessment focuses on evaluating the combined environmental, social and economic implications of both existing industrial operations and the proposed WtE project. This comprehensive approach involves analysing factors such as air and water quality, noise levels, waste management practices and the socio-economic benefits generated by these industries. By integrating primary project data with secondary research findings, the assessment aims to provide a holistic understanding of the cumulative impact of industrial activities in the vicinity of the proposed project, facilitating informed decision-making.

to promote sustainable development and mitigate potential adverse effects on the environment and local communities.

1. INTRODUCTION TO THE NEARBY INDUSTRIES

The various impacts and mitigation measures proposed by the existing industries operating within 15km radius of the proposed WtE plant have been described below:-

1.1 WtE plant of Delhi Municipal Solid Waste Solutions Limited (DMSWSL), Bawana

M/s. Delhi MSW Solutions Ltd. (DMSWSL) is in the process of developing a 60MW RDF (Refuse Derived Fuel) based power plant within its Integrated Municipal Solid Waste Management Facility (IMSWMF). The Terms of Reference (ToR) for this plant were granted by the Ministry of Environment, Forest and Climate Change (MoEF&CC) under file no. J-13012/01/2022-IA.1 (T) on 29th June, 2022. The proposed power plant will utilize approximately 3000 tons per day (TPD) of RDF as raw material. Since, the Environmental Clearance (EC) for the 60MW RDF-based power plant is still under process, the current study focuses on the existing 24MW capacity of the plant. This existing plant has been successfully operating after obtaining the necessary EC from MoEF&CC under file no. 10-67/2009-IA.III dated 8th May 2012, as well as the Consent for Establishment (CFE) and Consent for Operation (CFO) from the Delhi Pollution Control Committee (DPCC) via letter no. DPCC/PLG/2016/36691 dated 10th March, 2016 and letter no. DPCC/PLG/2017/39391 dated 20th February 2017, respectively.

The raw material requirement for the existing 24MW power plant is approximately 1200 TPD of RDF. This plant has been instrumental in managing the municipal solid waste effectively while generating power. The successful operation of this facility demonstrates the feasibility and efficiency of utilizing RDF in power generation, contributing to waste management and energy production goals. As DMSWSL progresses with the development of the 60MW RDF-based power plant, the lessons learned and data collected from the existing 24MW plant will be invaluable in ensuring the new plant's efficiency and compliance with environmental standards. The integration of the new plant within the IMSWMF highlights the company's commitment to sustainable waste management and energy generation.

1.2. Treatment Storage Disposal Facility (TSDF), Bawana.

The facility operated by M/s Tamil Nadu Waste Management Limited is a comprehensive Treatment, Storage, and Disposal Facility (TSDF) designed for the management of various types of hazardous, industrial and domestic hazardous waste. This state-of-the-art plant has been operating successfully since obtaining Environmental Clearance (EC) from the Ministry of Environment, Forest and Climate Change (MoEF&CC) under file no. 10-60/2019-IA.III dated 23rd November 2020. The facility encompasses three main waste disposal and recycling/recovery units that treat different categories of hazardous waste following the stringent rules and guidelines issued by MoEF&CC and the Central Pollution Control Board (CPCB). A notable feature is its secured landfill, which began with an initial capacity of 65,000 metric tons per annum (MTA) and is designed to reduce to 20,000 MTA from the second year onwards, continuing this trend until the 25th year of operation. This reduction strategy ensures long-term sustainability and efficient use of space.

In addition to the secured landfill, the TSDF boasts several advanced treatment units, including stabilization units and an incineration unit with a scalable capacity ranging from 300 kg/hr to 1.5 tons/hr. The facility also provides services for alternative fuel and raw material recovery, E-waste management, used oil recycling, Bio-Medical Waste recycling and the recycling of spent solvents, hazardous paper, plastics and drums. These capabilities address the critical need for the safe and scientifically sound disposal of hazardous waste generated. Upon arrival at the disposal facilities, waste undergoes rigorous processes such as decontamination, disinfection, shredding, granulation and baling before any final disposal steps. This comprehensive approach ensures that hazardous waste is managed responsibly, minimizing environmental impact and promoting public health and safety.

1.3. Pragati Power Corporation Limited (PPCL), Bawana.

Pragati Power Corporation Limited (PPCL), located in Bawana, is a key player in the power sector, dedicated to generating and distributing electricity in the region. Established with a mission to enhance the reliability and efficiency of the power supply, PPCL has been instrumental in meeting the energy demands of various stakeholders, including industries, businesses and residential consumers in and around Bawana. Pragati Power Station, a flagship project of PPCL, boasts an installed capacity of 1500 MW and operates with a commitment to sustainable practices and

technological innovation. This significant capacity underscores PPCL's role in supporting the regional grid and ensuring a stable and continuous power supply.

The primary fuel for the gas turbines at Pragati Power Station is natural gas, which is supplied by M/s GAIL through the Hazira-Vijaipur-Jagdishpur (HBJ) pipeline. The gas is received at a GAIL terminal located in the vicinity of the power station, with GAIL committed to supplying 1.75 million cubic meters per day (MCMD) of gas. The calorific value of the natural gas used for power generation ranges between 8200 kCal and 8500 kCal, ensuring efficient and effective energy production. As a secondary fuel, high-speed diesel (HSD) or naphtha is utilized, but only when the supply of natural gas is unavailable. To control nitrogen oxide (NO_x) emissions while operating on liquid fuels like HSD/naphtha, demineralized water is injected into the system. This approach reflects PPCL's dedication to minimizing environmental impact and adhering to stringent emission standards, thereby contributing to cleaner and more sustainable energy production.

1.4. Proposed WtE project at Bawana by Jindal Urban Waste Management (Bawana) Limited

The proposed Waste to Energy Project at DSIIDC Industrial Area, Sector-5, Bawana, Delhi, is being developed by M/s Jindal Urban Waste Management (Bawana) Limited. This ambitious project, with a capacity of 30 MW, aims to address the waste management challenges in North-West Delhi by converting 3000 tons per day (TPD) of municipal solid waste (MSW) into energy. Spanning approximately 15 acres, the facility is strategically located 4.34 km south-southeast of the Delhi-Haryana state boundary. Water requirements for the project include 50 KLD during the construction phase and 625 KLD during the operational phase which will be met by Pragati Power Corporation Limited (PPCL) or treated sewage from the Delhi Jal Board (DJB). Additionally, around 10 KLD of drinking water will be required during construction and 5 KLD during operation, which will be supplied by DJB. To ensure uninterrupted power supply during construction, Tata Power Delhi Distribution Limited (TPDDL) will provide electricity, supplemented by a 750 kVA diesel generator (DG) set for use during grid failures in the operational phase.

The Waste to Energy Project is expected to generate significant employment opportunities, contributing to the local economy. During the construction phase, it will create a total of 630 jobs, including 570 contract positions and 60 permanent on-roll positions. In the operational phase, the

project will sustain 242 jobs, comprising 156 contract positions and 86 on-roll positions. The project's proximity to key transport hubs enhances its logistical viability, with Narela Railway Station located 6.06 km to the northeast and Indira Gandhi International Airport situated 26.81 km to the south. With an estimated project cost of Rs 660 Crore, this initiative not only aims to tackle waste management and energy production challenges but also promises to bring socio-economic benefits to the region by providing employment and improving infrastructure.

2. IMPACT ASSESSMENT AND ENVIRONMENT MANAGEMENT MEASURES

The impacts and the various mitigation measures taken by the nearby industries are described below:-

2.1 WtE plant of Delhi Municipal Solid Waste Solutions Limited (DMSWSL), Bawana

2.1.1 Impacts

High Speed Diesel (HSD) was used for DG set and Light Diesel Oil (LDO) was used only for power plant start-up activity. The major air pollutants generated from the proposed operation were:

- > Dust particulates in flue gas from chimney
- > SO₂, NO_x, dioxins and furans in flue gas
- > Fly ash dust particles from ash handling areas

The construction of production blocks contributed significantly to the pollution of nearby water bodies due to site runoff and the washing of construction equipment. The presence of workers introduced additional challenges, such as generation of waste and wastewater from eating areas and temporary sanitary facilities. Direct discharge of untreated sewage from these facilities into receiving waters posed a considerable risk to water quality.

The major activities which produced periodic noise were as follows:

- > Foundation works
- > Fabrication of structures
- > Plant erection
- > Operation of construction equipment
- > Movement of vehicles
- > Material loading and unloading activities

2.1.2 Pollution control and mitigation measures

Acid gases (HCl, HF, and SO₂) were typically mitigated using semi-dry flue gas cleaning systems, where an aqueous lime slurry was used to neutralize the acids. Nitrogen oxides (NO_x) were primarily controlled by techniques like boiler over fire air systems and low NO_x burners, aimed at minimizing their formation from the nitrogen present in the fuel. These mitigation strategies were essential to mitigate air pollution from waste-to-energy plants, ensuring compliance with environmental standards and reducing the impact of harmful emissions on air quality and public health.

Runoff water from the site gets collected into working pit and the over flow will be diverted to nearby greenbelt/plantation area. All the wastewater generated due to the equipment washing will be diverted to working pit to arrest the suspended solids and the settled water will be reused for construction purposes and for sprinkling on roads to control the dust emission. The power plant is designed to achieve zero liquid discharge (ZLD) hence, there will be no effluents released to surrounding water bodies.

Adequate measures for noise control, at the design stage was taken and regular maintenance as suggested by the manufacturer was carried out. The mitigation measures proposed were as follows:

- > Noise level specification of various equipment's as per the Occupational Safety and Health Association (OSHA) standards
- > Providing suitable enclosures (adequate insulation) to minimize the impact of high noise generating sources.
- > Employees will be provided with PPE like ear plugs, helmets, safety shoes etc.
- > Development of greenbelt all along the boundary and along the roads within the project.
- > Regular operation & maintenance of equipment as per suppliers' instructions.

2.2 Treatment Storage Disposal Facility (TSDF), Bawana

2.2.1 Impacts

The principal source of air quality impact was from the construction of the project. Generation of fugitive dust, Particulate Matter resulting from construction activities were the major issues during construction. Other sources included loading and unloading materials, topsoil removal, vehicle movement on unpaved roads, civil constructions, provision of infrastructure and wind erosion.

Exhaust emissions from vehicles and equipment used caused a marginal increase in SO_2 , NO_x , PM, CO and unburnt hydrocarbons. However, these impacts were temporary, restricted to the construction phase and primarily affected the working environment with negligible effects outside the plant boundaries.

Domestic activities generated waste and wastewater from canteens and sewage from temporary sanitary facilities, characterized by high BOD, COD and coliform presence, potentially impacting water quality if discharged untreated into receiving water.

2.2.2 Pollution control and mitigation measures

Dust generation was primarily due to vehicle movement, unloading materials and soil removal. To control these emissions, regular water sprinkling on haulage roads, speed regulation for vehicles, short-duration stockpiling, adequate covering of material storage, prompt cleanup of spills and the erection of barriers were implemented. Trees were planted around the project boundary and regularly watered. Gaseous emissions were controlled through regular maintenance of machinery, ensuring all vehicles had valid "Pollution Under Control (PUC)" certification and conducting ambient air quality monitoring.

Precautions were taken to ensure runoff water from the site was collected in a working pit with overflow diverted to the nearby greenbelt or plantation area. Water from washed equipment was also directed to the working pit to capture suspended solids. The settled water was reused for construction purposes and sprinkling on haul roads to control dust emissions. Domestic sewage generated was treated in a portable STP.

2.3 Pragati Power Corporation Limited (PPCL), Bawana

2.3.1 Impacts

Gas power plants impact the environment through various emissions, including nitrogen oxides (NO_x), Carbon Monoxide (CO), Sulfur Dioxide (SO_2), Particulate Matter (PM) and Volatile Organic Compounds (VOC's), which degrade air quality and contribute to greenhouse gases like Carbon Dioxide (CO_2). These emissions cause respiratory and cardiovascular health issues. The plant consumed large amounts of water for cooling, leading to potential strain on local water resources and thermal pollution, which disrupts aquatic ecosystems. Chemicals used in cooling and boiler processes poses a risk of water contamination. Additionally, operational noise from

turbines, compressors and machinery was disruptive to nearby communities and wildlife, with intermittent high-decibel noise during maintenance. Soil contamination was a concern due to spills and leaks of fuel, lubricants and chemicals.

2.3.2 Pollution Control and Mitigation Measures

To mitigate the environmental impact, several measures were implemented. In order to make control on flue gas emission specifically NO_x & CO₂ a special emphasis was given. To control NO_x & CO₂, State of art, Dry Low NO_x (DLN) Burners was installed on gas turbine while on natural gas. While the machine was running on HSD/Naptha water injection arrangement was provided to control the NO_x & CO₂. At present the value of NO_x & CO₂ is in order on 17-18 PPM and 4.22% respectively on base load while O₂ is 15%. The allowable limit of NO_x, approved by DPCC (Delhi Pollution Control Committee) is 35 PPM. However, there is no cap on CO₂ emission. This was the first plant in India with a facility to control NO_x emission and is an eco-friendly power station. Also, a thick belt of plantation was grown on periphery of the power plant to make it environment friendly. Raw water requirement was met through Sewage treated water being drawn from Sen Nursing Home and Delhi Gate Sewage Treatment Plant. The demineralized water requirement for steam generation was met up through sewage treated water by treating this through RODM (Reverse Osmosis De-mineralization) process. The production of cooling water requirement for condenser and other equipment was also met through STW after processing through Lime softening system. The plant effluent was discharged after naturalizing. Noise pollution was addressed by installing noise barriers, using noise-dampening materials, maintaining equipment regularly and scheduling operations to reduce noise during sensitive times. Soil protection involved implementing spill prevention and control measures, proper disposal and treatment of hazardous waste and regular soil monitoring to detect and address contamination early.

2.4 Proposed WtE project at Bawana by Jindal

2.4.1 Impacts

The construction of the Waste to Energy Project at DSIIDC Industrial Area, Sector-5, Bawana, Delhi will involve sourcing various materials from specific locations. Stone dust, cement, aggregates and steel will be sourced from Kotputli, Rajasthan. Additionally, steel will be sourced

locally from Ghaziabad. Cut and fill excavations have been planned, involving 80,000 cubic meters of cutting material to be backfilled on-site, with an equal quantity of filling material sourced from the project site itself. This approach aims to reuse excavated materials effectively, minimizing external sourcing and transportation impacts. During the operation of the WtE plant, fugitive emissions from vehicular movement and fly ash handling are expected, with dust emissions likely remaining localized. There will be emission of pollutants like SO_2 , NO_x , particulates, CO, dioxins, furans and other gaseous pollutants as part of its operations. Measures are implemented to mitigate these emissions, ensuring compliance with environmental standards and minimizing environmental impact beyond the immediate vicinity of the plant.

During the operation phase of the proposed Waste to Energy (WtE) plant, water supply will primarily consist of blowdown water from Pragati Power Corporation Limited (PPCL) and treated sewage water from Delhi Jal Board's supply line, ensuring no fresh water is drawn from other sources. Main sources of water pollution at the plant include leachate collection areas, blowdown from boiler and cooling tower, DM plant effluent, floor washings and sewage water. Groundwater will not be utilized for any plant purposes to prevent impacts from wastewater percolation and process chemicals.

The construction phase activities likely to increase ambient noise levels include foundation work, vehicle movements for material transport, and loading and unloading activities. Additional noise sources are excavation machines, concrete mixers, and other construction equipment, as well as noise generated during concreting, hammering, and similar tasks.

2.4.2 Pollution Control and Mitigation Measures

The primary sources of air pollution in the proposed activities include boilers, DG sets, excavation, and screening. Boilers emit pollutants such as PM, HCL, SO_2 , CO, TOC, HF, NO_x , Dioxins and Furans, which will be mitigated using state-of-the-art technology including FGCS (FGD & Bag Filters) and SNCR for NO_x control. DG sets produce noise, PM, CO, and NO_x , and mitigation measures include noise monitoring and the use of acoustic enclosures. Excavation and screening generate PM_{10} and $\text{PM}_{2.5}$, which will be controlled by water sprinkling, collecting fine dust and silt for secure landfill disposal, and handling loose materials in covered sheds. Additionally, dust control systems, tree plantation around the site periphery, covering vehicles carrying raw materials

with tarpaulin sheets, ensuring PUC certificates for vehicles, maintaining construction machinery, and limiting DG set use to power failures are also proposed as mitigation measures.

The water system for the project is designed with a zero liquid discharge concept, ensuring treated wastewater is reused and leachate from the plant is treated in a combined leachate treatment plant. Condensate water from this treatment will be used for quenching bottom ash, while blowdown water from the boiler and cooling tower, and waste from the DM plant will be neutralized and repurposed. Sewage water will be treated in the biological pretreatment section of the leachate treatment plant. An air-cooled cooling tower system will be constructed, and all drains, effluent collection systems, and neutralization pits will be properly concretized to prevent groundwater contamination.

To minimize noise pollution, noise-generating equipment will be operated only during daytime. All vehicles entering the project site will adhere to speed limits and avoid blowing horns unless necessary. Additionally, workers operating major noise-generating construction equipment will be provided with personal protective equipment such as earplugs and earmuffs.

3. CUMULATIVE MITIGATION MEASURES

During the construction and operation phase of the nearby projects, extensive efforts were made to mitigate environmental impacts. Site leveling and grading were conducted strategically to preserve natural elevations wherever feasible, focusing primarily on areas designated for roadways, sewage networks, storm water systems and infrastructure installation. The majority of excavated materials were efficiently reused within the project boundaries thereby reducing the need for external disposal and minimizing disturbance. Dust generation, primarily from vehicle movements and material handling, was carefully managed through dust suppression techniques and strict adherence to operational protocols.

Water management was a critical focus to prevent contamination and ensure efficient use. Runoff from the site were channeled into designated working pits with provisions in place to divert any overflow to nearby greenbelt areas for absorption. Wastewater generated from equipment washing and domestic sources underwent treatment in portable sewage treatment plants or was directed to septic systems, ensuring compliance with environmental standards and preventing discharge into nearby water bodies. Noise reduction measures were integrated into the project design, with low-

noise equipment being selected and operational hours so scheduled to minimize disruption to nearby residents.

The combustion process generated exhaust gases containing pollutants such as CO, SO₂, NO_x and various other micro-pollutants including heavy metals and organic compounds. Rigorous control measures were implemented to mitigate these emissions before their release into the atmosphere. Acid gases were neutralized using a semi-dry flue gas cleaning system with aqueous lime slurry, effectively reducing their impact. Nitrogen oxides were minimized through advanced boiler technologies, while dioxins and heavy metals were targeted with activated carbon injection and filtration systems to enhance pollutant removal efficiency. Wastewater from plant operations was treated through innovative technologies like Mechanical Vapour Recompression (MVR), ensuring effective management of reject streams and leachate.

Overall, a comprehensive approach to environmental stewardship during both construction and operation phases have been carried out by the nearby industries by implementing stringent dust control, wastewater management and noise mitigation measures. These industries successfully minimized their ecological footprint and upheld regulatory standards. These efforts not only mitigated immediate environmental impacts but also supported long-term sustainability goals, ensuring that the existing industries operated in harmony with its surroundings.

4. CONCLUSION

While during development of Bawana Industrial area, initially some local flora and fauna must have been disturbed. However, plantation activities undertaken by different stakeholders have contributed in enhancing ecology of the area.

It is pertinent to mention that the baseline environmental data described in Chapter-3 of EIA report of the proposed WtE project reflect the impacts of all the industries operating within 10km radius. Impact of proposed project will be mitigated through various control and mitigation measures and implementation of an elaborate EMP.

The industries proactively implemented a variety of mitigation measures to effectively address these challenges. Stringent dust control practices were enforced to minimize airborne particulate matter. Robust wastewater management protocols were put in place to treat and reuse water efficiently, ensuring compliance with environmental regulations and preventing contamination of

nearby water bodies. Additionally, comprehensive noise reduction strategies were employed to mitigate disturbances to both onsite workers and neighboring communities.

In conclusion, while essential for project development, the construction phase presented significant environmental challenges. The project team implemented a range of mitigation measures to address these challenges effectively, including stringent dust control practices, wastewater management protocols, noise reduction strategies and erosion prevention techniques. These efforts aimed to ensure compliance with regulatory requirements and promote sustainable construction practices throughout the project lifecycle.

Moving forward, collaborative efforts among industries, regulatory authorities and local communities would play a vital role in sustaining a balance between industrial development and environmental preservation in Bawana area. By prioritizing environmental protection and adopting best practices, stakeholders can work towards minimizing adverse impacts while fostering sustainable growth and enhancing the quality of life for all residents.

Annexure-XIV

Soil Test Report



MANTEC ENVIRONMENTAL LABORATORY
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 Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail:manteclab@gmail.com

Sample Identification	: L240313 01
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Project Site
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/T-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	6.625	USEPA-3050B
3.	Boron as B	mg/kg	9.872	USEPA-3050B
4.	Barium as Ba	mg/kg	307.652	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	25.352	USEPA-3050B
7.	Copper as Cu	mg/kg	28.982	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	256.503	USEPA-3050B
10.	Nickel as Ni	mg/kg	20.654	USEPA-3050B
11.	Lead as Pb	mg/kg	16.791	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	63.025	USEPA-3050B

Pradeep
 Pradeep
 Analyzed by:



Mallick
 Gaja Nand Mallick
 Quality Manager:

Note:-

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****End of Report****



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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail :manteclab@gmail.com

Sample Identification	: L240313 02
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Ramky Enviro Engineers Ltd. Sector 5, Bawana Delhi
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. $25 \pm 2^\circ\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	5.883	USEPA-3050B
3.	Boron as B	mg/kg	9.972	USEPA-3050B
4.	Barium as Ba	mg/kg	79.281	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	26.534	USEPA-3050B
7.	Copper as Cu	mg/kg	28.558	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	271.190	USEPA-3050B
10.	Nickel as Ni	mg/kg	24.936	USEPA-3050B
11.	Lead as Pb	mg/kg	14.889	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	61.530	USEPA-3050B

Pradeep
Analyzed by:

Gaja Nand Mallick
Quality Manager

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Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	:	L240313 03
Name & Address of the Customer	:	Jindal Urban Waste Management (Rawana)
Date of Sampling	:	12.03.2024
Date of Receipt	:	13.03.2024
Sample Description	:	Soil
Sample Condition	:	OK
Start Date of Analysis	:	13.03.2024
End Date of Analysis	:	19.03.2024
Date of Reporting	:	19.03.2024
Sampling Location	:	Near Shani Dev Mandir Ghoga Delhi
Sample Submitted by	:	Mr. Ankit Kumar
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	1.029	USEPA-3050B
3.	Boron as B	mg/kg	1.606	USEPA-3050B
4.	Barium as Ba	mg/kg	14.917	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	4.750	USEPA-3050B
7.	Copper as Cu	mg/kg	3.998	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	59.237	USEPA-3050B
10.	Nickel as Ni	mg/kg	4.639	USEPA-3050B
11.	Lead as Pb	mg/kg	2.177	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	11.014	USEPA-3050B

Pradeep
Analyzed by:

Gaja Nand Mallick
Quality Manager

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Sample Identification	: L240313 04
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Chor Chiap Forest - National Forest Kanjhawala
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	5.206	USEPA-3050B
3.	Boron as B	mg/kg	16.788	USEPA-3050B
4.	Barium as Ba	mg/kg	250.718	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	26.348	USEPA-3050B
7.	Copper as Cu	mg/kg	23.402	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	284.538	USEPA-3050B
10.	Nickel as Ni	mg/kg	24.110	USEPA-3050B
11.	Lead as Pb	mg/kg	12.363	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	56.739	USEPA-3050B

Pradeep
Analyzed by:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: L240313 05
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Camp Deva Farm - Picnic Ground Alipur New Delhi
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	5.784	USEPA-3050B
3.	Boron as B	mg/kg	17.152	USEPA-3050B
4.	Barium as Ba	mg/kg	256.571	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	26.954	USEPA-3050B
7.	Copper as Cu	mg/kg	23.884	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	292.224	USEPA-3050B
10.	Nickel as Ni	mg/kg	24.669	USEPA-3050B
11.	Lead as Pb	mg/kg	12.916	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	57.635	USEPA-3050B

Pradeep
Analyzed by:

Gaja Nand Mallick
Quality Manager:

Note:-

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Sample Identification	: L240313 06
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Gopal Gau Sadan Harawali New Delhi
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. $25 \pm 2^{\circ}\text{C}$ Humidity $50 \pm 10\%$
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	1.425	USEPA-3050B
3.	Boron as B	mg/kg	2.913	USEPA-3050B
4.	Barium as Ba	mg/kg	62.741	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	6.791	USEPA-3050B
7.	Copper as Cu	mg/kg	5.495	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	65.426	USEPA-3050B
10.	Nickel as Ni	mg/kg	6.738	USEPA-3050B
11.	Lead as Pb	mg/kg	4.237	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	18.256	USEPA-3050B

Pradeep
Analyzed by:

Gaja Nand Mallik
Quality Manager:

Note:-

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- > This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- > The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- > This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

****End of Report****



MANTEC ENVIRONMENTAL LABORATORY

[Recognized by MoEF&CC-Govt. of India]

D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P.

Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail: manteclab@gmail.com

Sample Identification	: L240313 07
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Vivansh Air & Water Solutions Prahladpur, Rohini Delhi
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	5.969	USEPA-3050B
3.	Boron as B	mg/kg	7.365	USEPA-3050B
4.	Barium as Ba	mg/kg	166.168	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	17.222	USEPA-3050B
7.	Copper as Cu	mg/kg	17.500	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	206.431	USEPA-3050B
10.	Nickel as Ni	mg/kg	17.903	USEPA-3050B
11.	Lead as Pb	mg/kg	7.528	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	34.939	USEPA-3050B

Pradeep
Analyzed by:

Gaja Nand Mallick
Quality Manager:

Note:-

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****End of Report****



MANTEC ENVIRONMENTAL LABORATORY

[Recognized by MoEF&CC-Govt. of India]

D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P.
Ph.0120-4215000, 4215805, Fax, 0120-4215809, e-mail : manteclab@gmail.com

Sample Identification	: L240313 08
Name & Address of the Customer	: Jindal Urban Waste Management (Bawana)
Date of Sampling	: 12.03.2024
Date of Receipt	: 13.03.2024
Sample Description	: Soil
Sample Condition	: OK
Start Date of Analysis	: 13.03.2024
End Date of Analysis	: 19.03.2024
Date of Reporting	: 19.03.2024
Sampling Location	: Near Khara Sports Club, Khara Khurd Rd Sector 35, Rohini
Sample Submitted by	: Mr. Ankit Kumar
Environmental Condition at Lab	: Temp. 25 $\pm$ 2 $^{\circ}$ C Humidity 50 $\pm$ 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/7.3/P-01

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.	Silver as Ag	mg/kg	ND	USEPA-3050B
2.	Arsenic as As	mg/kg	ND	USEPA-3050B
3.	Boron as B	mg/kg	1.550	USEPA-3050B
4.	Barium as Ba	mg/kg	38.189	USEPA-3050B
5.	Cadmium as Cd	mg/kg	ND	USEPA-3050B
6.	Chromium as Cr	mg/kg	4.120	USEPA-3050B
7.	Copper as Cu	mg/kg	4.853	USEPA-3050B
8.	Mercury as Hg	mg/kg	ND	USEPA-3050B
9.	Manganese as Mn	mg/kg	47.558	USEPA-3050B
10.	Nickel as Ni	mg/kg	4.535	USEPA-3050B
11.	Lead as Pb	mg/kg	2.034	USEPA-3050B
12.	Selenium as Se	mg/kg	ND	USEPA-3050B
13.	Zinc as Zn	mg/kg	11.005	USEPA-3050B

Pradeep
Pradeep
Analyzed by:



Mallick
Gaja Nand Mallick
Quality Manager.

Note:-

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****End of Report****

Annexure-XV
Monitoring Photographs

Air Monitoring Photographs







Soil Sampling Photographs





Groundwater Sampling Photographs



Surface Water Sampling Locations





Socio-Economic Site Visit Photographs



Interaction with the Vice Principal of Govt. Co-Ed. 333
Ghoga Village



Education Facility in the Study Area (Primary School)



Focus Group Discussion with school teachers at Saneek
Village



Religious place in the Study Area



Gurdwara at Marnwarpur in the Study Area



Interaction with Villager at Ghoga village



Interaction with school teacher of the newly constructed Primary School at J.I. Colony, Dewana



Livestock Rearing in the Study Area, Ghoga Village



Education Facility in the study area



Education Facility in the study area



Educational Facility at Ghoga Village



Service in the Study Area

Guest Bus



Temple in the Study Area



Park Adjacent to the Temple in the Study Area, Salokpur
Majra Village



Village Road in the Study Area



Agricultural Field in the Study Area



Facilitated Group Discussion



Project Site



Interaction with School Teacher in the Study Area



Village Road in the Study Area



Banking Facility in the Study Area, Ghoga Branch



Drainage Facility in the Study Area, JJ Colony



Govt. Educational Facility in the Study Area



Post Office in the Study Area

Site Visit Photographs



Project Site





Quadrat sampling



Quadrat sampling



Image of Landscape



Village Pond



Yankona canal near Project site



Well structure near Marakurpur



Nargis plant



Blueweed



Bistorta



Vegetation sampling



Wheat cultivation



Sugarcane Cultivation



Black winged stilt and Red winged lapwing in Village Pond



Puccock



Rhesus Macaque



Cattle egret in waterhyacinth invaded waterbody



Aquatic Ecological Study

Annexure-XVI
Letter from MCD for
Land allotment, allotment and MSW
Water allotment



MUNICIPAL CORPORATION OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER (WE) DEMS
Room No.1501, 15th Floor, Dr. SPM, Civic Centre
J.N Marg, New Delhi- 110002
email: eedems-hq@mdc.nic.in
Phone: 011-23278349

No: EEW/MCD/DEM/2024/25/EL-17

Date: 03/09/2024

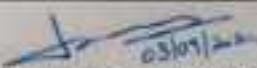
JITF Urban Infrastructure Limited
Jindal ITF Centre, 28 Shivaji Marg
New Delhi - 110015

Subject: Setting up of Municipal Solid Waste (MSW) to Energy Facility at Narela-Bawana, Delhi
Ref: Your Letter No. JUWMBL/2024-25/12 dated 25/07/2024

This is in reference to your above-mentioned letter vide which you have requested MCD to provide essential documents for the Draft EIA Report. Point-wise reply to your request is as under:

S N	Essential documents sought	Reply of MCD
1	Land Allotment Letter for the Project Site	The total land required for the project is in possession of MCD and the same shall be handed over to the lowest successful bidder i.e. M/s. JITF Urban Infrastructure Limited, after approval of Rate & Agency contract by the Competent Authority. It is further informed that LOA could not be issued to the lowest successful bidder due to non-formation of the Standing Committee in MCD and tariff adoption matter pending in the Hon'ble Supreme Court. MCD also sent a letter to the MoEFCC on 09/11/2023 clarifying the applicant's status (Copy attached). Consequently, the Terms of Reference (TOR) were issued to the applicant by MoEFCC on 10/01/2024.
2	Consent Letter for the Supply of Municipal Solid Waste (MSW) as fuel	MCD has already consented to supply MSW for the entire term in the tender documents and draft concession agreement which shall be signed subsequent to the approval of the Rate & Agency Contract by the Competent Authority.
3	Consent Letter for Sewage Treatment Plant (STP) or Blowdown (BD) water supply from CUBPPCL	This issue was taken up with the Special Secretary, Power Department, GNCTD in May 2022 and also discussed in the meeting chaired by the Chief Secretary, Delhi on 14/05/2022 during which it was recommended to the Power Department, GNCTD for consideration. Formal consent letter from Power Department can only be issued after issuance of LOA to the successful bidder.

End: As above


03/09/2024
Executive Engineer (WE) DEMS

Copy for kind information to:

1. Additional Commissioner (DEMS)
2. E in C.B.
3. CE (Project)/DEMS
4. SE/DEMSHQ


03/09/2024
Executive Engineer (WE) DEMS

Annexure-XVII
Receiving Letter from DFO

Ref No: JIWMML/2023-24/006

76/3p204
Date: 12.03.2024

To,

Dy. Conservator of Forests (HQ)

Department of Forests and Wildlife, Govt. of NCT of Delhi.

A-Block, 2nd Floor, Vikas Bhawan, I.P. Estate,

New Delhi-110002.

Sub: Request to provide list of Floral and Faunal species for preparation of EIA Report for Proposed Waste to Energy Project 30 MW, DSIDC Industrial Area, sector-5, Bawana, Delhi-110029 by M/s. Jindal Urban Waste Management (Bawana) Limited.

Sir,

This has reference to the subject as cited above that M/s Jindal Urban Waste Management (Bawana) Limited has been issued Terms of Reference (ToR) by the MOEF & CC for Waste to Energy Plant at Bawana. As the study area of project falls under North West Delhi, therefore, you are requested to provide authenticated list of floral and faunal species found in the study area (Study area Map of 10 km is attached herewith as Annexure-I). This would help us in verification of floral and faunal species found during field study.

Please acknowledge the receipt of this letter and we look forward to your urgent action in this regard.

Yours faithfully,

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



(Authorized Signatory)

Enc: 1. Annexure - I

Dr. Ravi Kumar
24/3/24

Dr. Ravi Kumar
Govt. of NCT of Delhi
R & I Branch
A-Block, 2nd Floor, Vikas Bhawan
I.P. Estate, New Delhi-110002

Ref No: JUMHL/2023-24/007

28/3/2024
 Date: 12.03.2024

To,
The Chief Wildlife Warden,
 Department of Forests and Wildlife, Govt. of NCT of Delhi,
 A-Block, 2nd Floor, Vikas Bhawan, I.P. Estate,
 New Delhi-110002.

Sub: Request to provide Authenticated Map for preparation of UIA Report for Proposed Waste to Energy Project 30 MW, DSIDC Industrial Area, sector 5, Bawana, Delhi-110029 by M/s. Jindal Urban Waste Management (Bawana) Limited.

Sir,

This has reference to the subject as cited above that M/s Jindal Urban Waste Management (Bawana) Limited has been issued Terms of Reference (ToR) by the MOEF & CC, for Waste to Energy Plant at Bawana. As per ToR (Letter is attached herewith as Annexure - I) "Location of any National Park, Sanctuary, Elephant Tiger Reserve existing as well as proposed migratory routes/wildlife corridor, if any, within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden of the State or an Officer authorized by him."

Therefore, you are requested to provide Map duly authenticated by Chief Wildlife Warden showing proposed areas falling within 10 km radius study area (Study area Map attached herewith as Annexure-II).

Please acknowledge the receipt of this letter and we look forward to your urgent action in this regard.

Yours faithfully,

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



(Authorized Signatory)



Encl: 1. ToR letter

2. Study area map of 10 km radius around project

@ Letter head
 JUMHL

Department of Forests & Wildlife
 Govt. of NCT of Delhi
 R & I Branch
 2nd Floor, Vikas Bhawan
 Delhi, New Delhi-110002