

DLF HOME DEVELOPERS LIMITED

CIN: - U74899HR1995PLC082458
Regd. Off - 2nd Floor, Arjun Marg,
DLF Shopping Mall, DLF City, Phase - I
Gurugram -122002, Haryana (India)
Tel.: +91-124-4334200, Email ID: corporateaffairs@dlf.in



To

Date:

The Joint Director (S)
Northern Regional Office
Ministry of Environment, Forest & Climate Change
Bays No. 24-25
Sector 31-A Dakshin Marg
Chandigarh- 160030

Sub: Submission of six-monthly compliance report of stipulated conditions of Environmental Clearance for Proposed Group Housing Colony at Phase IV, Village-Chakkarpur, Sector-28, Gurugram, Haryana for the period of April 2025 to September 2025. (Due to 1st Dec 2025).

Sir,

In accordance with the Environmental Clearance received from the State Environment Impact Assessment Authority (SEIAA), Haryana, for the above project vide letter no. SEAC/HR/2024/082 dated 27.09.2024 we are submitting herewith Six-monthly Compliance Report of stipulated condition of Environment Clearance (in one soft copy in CD) for the period of **April 2025 to September 2025**.

Thanking You

Yours sincerely,
For DLF HOME DEVELOPERS LTD. & OTHERS.

For DLF Home Developers Limited


Authorized Signatory
(Authorized Signatory)

Name -
Designation -
E-mail -
Contact No. -

Encl: As stated above

Copy to:

1. The Chairman, Haryana State Pollution Control Board (HSPCB), C-11 Sector -6, Panchkula (Haryana).
2. Member Secretary, State Environment Impact Assessment Authority (SEIAA), Haryana, Bays no. 55-57, Prayatan Bhawan, Sector-2, Panchkula (Haryana).


28/11/25

Haryana State Pollution Control Board
C-11, Sector-6, Panchkula

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28.11.2025



Alok kumar <dlfldcrest2@gmail.com>

**Half yearly compliance report for submission period April 2024 to September 2025
DLF Homes Developers Ltd & Other's Group Housing Colony at, Village-
Chakkarpur, Sector-28, Gurugram Haryana**

Alok kumar <dlfldcrest2@gmail.com>
To: ecompliance-nro@gov.in

29 November 2025 at 14:31

Respected Sir,

Please find enclosed half yearly compliance report for submission period April 2025 to September 2025 for M/s DLF Homes Developers Ltd & Other's Group Housing Colony at, Village-Chakkarpur, Sector-28, Gurugram Haryana

Yours Sincerely

 **DLF Hamilton.pdf**
17371K

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	SIA/HR/INFRA2/473513/2024
Compliance ID	666589578
Compliance Number(For Tracking)	EC/M/COMPLIANCE/666589578/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	28-11-2025
RO/SRO Name	Shri Satya Prakash Negi
RO/SRO Email	jhk119@ifs.nic.in
State	HARYANA
RO/SRO Office Address	Integrated Regional Offices, Chandigarh

Note:- SMS and E-Mail has been sent to Shri Satya Prakash Negi, HARYANA with Notification to Project Proponent.

DLF HOME DEVELOPERS LIMITED

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A.C.

1

INTRODUCTION

1.1 Introduction

M/S DLF HOME DEVELOPERS LTD has Proposed Group Housing Colony at Phase IV revenue estate of Village-Chakkarpur, Sector-28, Gurugram, Haryana.

This Project has obtained Environmental Clearance from State Environmental Impact Assessment Authority (SEIAA), Haryana, with certain conditions.

1.2 Status of the Project:

The project is in construction phase and construction is being carried out as per EC conditions.

1.3 Purpose of the Report

As per the "Sub Para (i)" of "Para 10" of EIA Notification 2006, it is stated that *"It shall be mandatory for the project proponent to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the concerned regulatory authority, on 1st June and 1st December of each calendar year"* and as per compliance condition mentioned in Environment Clearance Letter.

The regulatory authorities in this case are SEIAA, Panchkula, MoEF& CC, Chandigarh, HSPCB, Panchkula and MoEF Delhi. Various scheduled Site Visits were conducted by a team of Experts to Monitor Pollution related parameters as defined by CPCB / HSPCB. Samples for water and soil were also collected by NABL/MoEF approved laboratory for analysis.

Based on the Specific and General Conditions mentioned in the EC Letter, a Compliance Report has been prepared and submitted regularly to the authority.

The Environmental assessment has been carried out to verify:

- 1) The proposed project has not any adverse effect on the project site as well as it's surrounding.
- 2) There is compliance with the conditions stipulated in the Environmental Clearance Letter.
- 3) The Project proponent is implementing the environmental safeguards in true spirit.
- 4) The non-conformity in the project with respect to the environmental implication of the project.
- 5) The project proponent is implementing the environmental pollution mitigative measures as suggested in approved Form-1 and Form - 1A, Environmental Management Plan and Building Plan.

1.4 Methodology for Preparation of Report is as follows:

- 1) Study of EC Letter & Related Documents,
- 2) Site Visits by a Team of Experts,
- 3) Monitoring of Environment Parameters, viz. Ambient Air, Water, and Noise& Soil by the NABL/Moef lab.
- 4) Interpretation of Monitoring Results.

- 5) Preparation of half yearly Environmental Compliance Report.

1.5 Generic Structure of Report:

- 1) Purpose of the Report, explaining the need of a Compliance Report and Methodology Adopted for preparation of Report.
- 2) Compliance Report, explaining the entire General & specific conditions in the EC Letter and providing details w.r.t. each condition/ guideline.
- 3) Monitoring Reports & Analysis, showing the level of emission within the project site for various Environment Parameters.
- 4) Photographs showing status of the project and site.
- 5) Supporting Documents which are mandatory for the project.

2

ADHERENCE TO SPECIFIC AND GENERAL CONDITIONS

I. Specific Condition

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	The project is recommended on concept basis as such in case of any change in planning, the PP will obtain fresh EC.	Agreed & noted. We will obtain fresh EC in case of change in planning.
2.	Sewage shall be treated in the STP based on latest Technology with tertiary treatment i.e. Ultra Filtration to achieve standards ordered by NGT. The Treated effluent from STP shall be recycled /reused for flushing, DG cooling and Gardening. The dimension of each component of STP should be properly designed as per Norms.	Agreed & noted. We will install Sewage treatment plant & the dimension of each component of STP will be properly designed as per applicable standards during the construction phase. Sewage will be treated in the STP based on latest Technology with tertiary treatment i.e. Ultra Filtration to achieve standards ordered by NGT. The Treated effluent from STP will be recycled /reused for flushing, DG cooling and Gardening during the operation phase.
3.	The Project Proponent would devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coli forms and other pathogenic bacteria.	Agreed & noted. We will devise a monitoring plan to the satisfaction of the State Pollution Control Board so as to continuously monitor the treated waste water being used for flushing in terms of faecal coli forms and other pathogenic bacteria during the operation phase.
4.	The PP shall ensure that total EMP Budget shall be spent on project during construction as well as during operational phase as per table given above. The EMP cost on Socio Economic activities shall be used before the commencement of the project & EMP recurring inside the project shall be implemented throughout the operation of the project. The PP shall establish Environment monitoring cell as per documents submitted.	Agreed. EMP spent details for the construction phase is attached as Annexure-I .
5.	The project proponent shall upload the status of compliance of the basic details (given in above tables), stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agreed & noted. We will comply with the same.
6.	The Project Proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.	Agreed & noted. We will commission a third party study on the implementation of conditions related to quality and quantity during the operation phase.
7.	Separate wet and dry bins must be provided in each unit and at ground level for facilitating segregation of waste. Solid Waste shall be segregated into wet garbage and inert materials. Wet Garbage shall be composted in Organic waste convertor. Adequate area shall be provided for solid waste management within	Agreed. Separate wet and dry bins will be provided in each unit and at ground level for facilitating segregation of waste during the operation phase. Solid waste will be segregated into wet garbage and inert materials. Composting of Wet garbage will be done in Organic Waste Convertor of capacity 600 Kg/day (1 in number).

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Phase IV revenue estate of Village-Chakkarpur, Sector-28, Gurugram, Haryana
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	the premises which will include area for segregation, composting. The Inert waste from the project will be sent to dumping site.	An adequate area will be provided within the premises which will include area for segregation, composting. The Inert waste will be sent to dumping site.
8.	Traffic management plan as submitted shall be implemented in letter and spirit. Apart, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is marinated and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habilitation being carried out or purpose to be carried out by the project or other agencies in this 05 kms radius of the site in different scenarios of space and time.	Agreed. Traffic management plan as submitted will be implemented during the operation phase. Traffic Management plan is attached as Annexure-II .
9.	The Project Proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	Agreed. We have obtained all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction will be done in accordance with the local building byelaws. Copy of EC letter vide EC file No. SEAC/HR/2024/082 dated: 27.09.2024 having validity period of 10 years is attached as Annexure-III . Copy of CTE vide Consent No. HSPCB/Consent/ : 329962324GUNOCTE80659067 is valid till 26.09.2034 is attached as Annexure-IV . Copy of License vide No. 26 of 2023 valid till 08.02.2028 is attached as Annexure-V .
10.	Consent to establish/operate for the expansion project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of pollution) Act, 1981 and the Water (Prevention and control of pollution) Act, 1974.	Agreed & noted. We will obtain Consent to establish/operate for the esteemed project from the Haryana State Pollution Control Board.
11.	The Approval of the Competent Authority shall be obtained for structural safety of building code due to earthquakes, adequacy of firefighting equipments etc. as per National Building Code including protection measures from lightening etc.	Agreed. Copy of Structural Stability Certificate is attached as Annexure-VI .
12.	The PP shall not carry any construction above or below the Revenue Rasta, if any.	Agreed & noted.
13.	The PP shall keep the ROW below the HT Line passing through the project, if any.	Agreed & noted.
14.	The PP shall obtain the Fire NOC from the competent Authority before taking occupation of the building.	Agreed. Acknowledge of Fire NOC is attached as Annexure-VII .
15.	The PP shall install the Eco Friendly Green Transformer based on ester oil to reduce the carbon footprint. The PP shall shift to gas based generator set when the gas is available. The PP shall install APCM for the DG set. The PP shall reduce the SO2 load by 30% if HSD is used. The DG sets will be operated for maximum 04 hours during power failure through Executing Agency.	Agreed. Eco Friendly Green Transformer based on Ester oil will be installed. We will also install APCM for the DG set during the construction phase.
16.	The PP shall not give occupation or possession before the water supply, electricity and sewage connection permitted by the competent authority.	Agreed & noted. We will not give occupation or possession before the water supply, electricity and sewage connection permitted by the competent authority.
17.	The PP shall carry out the quarterly awareness programs for the stakeholders of the commercial	Agreed & noted. We will carry out the quarterly awareness programs for the stakeholders during the

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	colony/project.	construction phase as well as operation phase.
18.	The PP shall install Digital water level recorder for monitoring the water recharge and carry out quarterly maintenance and cleaning of RWH pits .	Agreed. We will install Digital water level recorder for monitoring the water recharge and the quarterly maintenance and cleaning of RWH pits will be carried out.
19.	The PP shall take all preventive measures including water sprinkles to control dust during construction and operational phase.	Agreed. All preventive measures including water sprinkles will be taken to control dust during construction phase as well as operational phase.
20.	The PP may provide electric charging stations to facilitate electric vehicle commuters.	Agreed & noted.
21.	Any change in stipulations of EC will lead to Environment Clearance void-ab initio and PP will have to seek fresh Environment Clearance.	Agreed & noted. We will not draw/make any change in stipulations of EC Letter.
22.	The Project Proponent shall ensure that trees planted under the project shall be well grown healthy and established trees of more than 10cm DBH (diameter above 137cm above ground level) or more than 31.4cm in girth.	Agreed & noted. Copy of Landscape plan is attached as Annexure-VIII .
23.	The Project Proponent shall ensure raising the number of established trees as per norms proposed for the project and finally approved during the EC granting process.	Agreed & noted. We will maintain the green area and plant trees as per the requirement during the operation phase. Copy of Landscape plan is attached as Annexure-VII .
24.	In the proposed landscape plan, native species shall be included as per the list of concerned DFO.	Agreed & noted. We will plant native species as per the list of concerned DFO during the operation phase.
25.	The minimum growth of trees should be 03 meters with sufficient canopy.	Agreed & noted.
26.	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority.	Agreed & noted.
27.	Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	Agreed & noted. We will follow the same.
28.	A minimum of 1 tree (5' tall) for every 80 sqm of land should be planted and maintained and the existing trees will be counted for this purpose.	Agreed & noted. We will comply with the same.
29.	The species with heavy foliage, broad leaves and wide canopy cover are desirable.	Agreed & noted.
30.	Water intensive and/or invasive species should not be used for landscaping.	Agreed & noted. We will implement the same.
31.	As proposed green area is 9,022.857 m2 (20% of plot area) in which block plantation area is 5413.714 m2 (12% of total plot area) and Avenue/ peripheral plantation is 3609.143 sqmt (08 % of total plot area) shall be provided for green area development.	Agreed. We will start Green area development after completion of the construction work.
32.	11 Rain Water Harvesting Pits shall be provided for ground water recharging as per the CGWB norms.	Agreed & noted. We will provide the required number of Rain Water Harvesting Pits during the operation phase as per the CGWB norms.
33.	The PP shall install required number of Anti Smog Guns at the project site as per the requirement of HSPCB.	Agreed & noted. Anti-smog guns will be installed in required number at the project site during the construction phase.
34.	The PP shall enhance solar power capacity from 40 KWp to 60 KWp.	Agreed & noted.
35.	The PP shall get project electrification plan approved from the competent authority before operation of the project.	Agreed & noted.
36.	The PP shall register themselves on the	Agreed & noted.

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	http://dustapphspcb.comportal as per the Direction No.14 dated 11.06.2021 issued regarding dust mitigation by Commission for Air Quality Management in National Capital Region and Adjoining Areas.	
37.	The PP will adopt a nearby government school for renovation and improvement with budget allocated under CER of Rs. 30 lakhs.	Agreed & noted.

I. Statutory Compliance:

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority for ground coverage, FAR and should be in accordance with zoning plan approved by Competent Authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	Agreed. All the construction will be done in accordance with the local building byelaws. We have obtained all necessary clearance/permission from all relevant agencies. Copy of EC letter vide EC file No. SEAC/HR/2024/082 dated: 27.09.2024 having validity period of 10 years is attached as Annexure-III . Copy of CTE vide Consent No. HSPCB/Consent/ : 329962324GUNOCTE80659067 is valid till 26.09.2034 is attached as Annexure-IV . Copy of License vide No. 26 of 2023 valid till 08.02.2028 is attached as Annexure-V . Copy of Zoning plan, Master plan, and Layout plan is attached as Annexure-IX, Annexure-X, and Annexure-XI respectively.
2.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes. adequacy of firefighting equipment etc as per National Building Code including protection measures from lightening etc.	Agreed. Copy of Structural stability certificate is attached as Annexure-VI .
3.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Agreed. Forest clearance under the provisions of Forest (Conservation) Act, 1986 is not applicable as there is no diversion of forest land is involved for non-forest purpose in the esteemed project.
4.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable and shall abide with the conditions imposed in NOC, if any issued by Forest Department and NBWL.	Agreed. We have not obtained clearance from the National Board of Wildlife as this is not applicable for our esteemed project.
5.	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Haryana State Pollution Control Board.	Agreed & noted. We will obtain Consent to establish/operate for the esteemed project from the Haryana State Pollution Control Board.
6.	The PP shall obtain the permission for withdrawal of ground/surface water from competent authority before the start of the project and also obtain the CTO from HSPCB after the approval from competent authority.	Agreed. Copy of Water assurance from GMDA is attached as Annexure-XII .
7.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Agreed. Copy of Power assurance from Dakshin Haryana Bijli Vitran Nigam (DHBVN) vide Memo No. Ch-20/DGR-26B Dated: 19.03.2024 is attached as Annexure-XIII .
8.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation	Agreed. All other Statutory clearances have been obtained from Competent authorities. AAI NOC is attached as Annexure-XIV .

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	Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	Forest NOC is attached as Annexure-XV . Aravali NOC is attached as Annexure-XVI .
9.	The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, the Plastics Waste (Management) Rules, 2016 and Batteries waste (Management Handling) Rules 2001 (as amended in 2020) shall be followed.	Agreed. The provisions of the Solid Waste (Management) Rules, e-Waste (Management) Rules, the Plastics Waste (Management) Rules, and Batteries waste (Management Handling Rules) will be followed during the operation phase.
10.	The project proponent shall follow the ECBC Act/ECBC- Rules prescribed by Bureau of Energy Efficiency, Ministry of Power strictly in addition of bylaws of the State Government.	Agreed. ECBC Act/ECBC-Rules prescribed by Bureau of Energy Efficiency, Ministry of power strictly in addition of bylaws of the State Government will be followed during the operation phase.

II. Air Quality Monitoring and Preservation

S. No.	Conditions of Environmental Clearance	Status of Compliance
i	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental clearance shall be complied with.	Agreed. Dust Mitigation measures will be mandatorily implemented for Construction and Demolition activities for projects requiring Environmental Clearance and the same will be complied with during the construction phase.
ii	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	Agreed. We will implement a Management Plan during the construction phase as well as operation phase in order to contain the current exceedance in ambient air quality at the site.
iii	The project proponent shall install system to carryout Ambient Air quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5}) covering upwind and downwind directions during the construction period.	Agreed. We will install system to carryout Ambient Air quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5}) covering upwind and downwind directions during the construction period. Latest Monitoring report is attached as Annexure-XVII .
iv	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of ultra low sulphur diesel shall be ensured for DG sets. The location of the DG sets may be decided with in consultation with State pollution Control Board.	Agreed. Diesel power generating sets proposed as source of backup power will be enclosed type and conform to rules made under the Environment (Protection) Act, 1986 during the operation phase. The height of stack of DG sets will be adequate as per the CPCB norms. Ultra low sulphur diesel will be used. The location of the DG sets will be decided with in consultation with State Pollution Control Board.
v	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.	Agreed. Construction site is being adequately barricaded. Dust, smoke & other air pollution prevention measures will be provided for the building as well as the site. Plastic/tarpaulin sheet covers will be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site during the construction phase.
vi	Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	Agreed. Sand, murrum, loose soil, cement, stored on site will be covered adequately so as to prevent dust pollution during the construction phase.
vii	Wet jet shall be provided for grinding and stone cutting.	Agreed. Wet jet will be provided for grinding and stone cutting during the construction phase.
viii	Unpaved surfaces and loose soil shall be adequately	Agreed. Unpaved surfaces and loose soil is being

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	sprinkled with water to suppress dust.	adequately sprinkled with water for the suppression of dust.
ix	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.	Agreed. All construction and demolition debris will be stored at the site at appropriate places (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste will be managed as per the provisions of Construction and Demolition Waste Rules during the construction phase.
x	The diesel generator sets to be used during construction phase shall be ultra low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	Agreed. Ultra low sulphur diesel type DG sets will be used during construction phase and conform to Environmental (Protection) prescribed for air and noise emission standards.
xi	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Ultra low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	Agreed. The gaseous emissions from DG set will disperse through Stack of adequate height as per CPCB standards during the operation phase. Adequate enclosures will be provided to the DG sets for Noise mitigation. Ultra low sulphur diesel will be used. The location of the DG set and exhaust pipe height will be adequate as per the provisions of the Central Pollution Control Board (CPCB) norms.
xii	For indoor air quality the ventilation provisions as per National Building Code of India.	Agreed. For Indoor air quality the ventilation provisions will be as per National Building Code of India during the construction & operation phase.

III. Water quality monitoring and preservation

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	Agreed. The natural drain system will be maintained for ensuring unrestricted flow of water. No construction will be done to obstruct the natural drainage through the site, on wetland and water bodies during the operation phase.
2.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Agreed. Buildings will be designed to follow the natural topography as much as possible as per National Building Code. Minimum cutting and filling will be done during the construction phase.
3.	Total fresh water use shall not exceed the proposed requirement as provided in the project details. The per capita supply should adhere to NBC 2016 and CGWA Notification dated 12.12.2018.	Agreed. Total fresh water use will not exceed the proposed requirement as provided in the project details during the construction phase as well as operation phase.
4.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF& CC along with six monthly Monitoring reports.	Agreed. The quantity of fresh water usage, water recycling and rainwater harvesting will be measured and recorded to monitor the water balance during the operation phase.

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S. No.	Conditions of Environmental Clearance	Status of Compliance
5.	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	Agreed. Copy of water assurance from GMDA is attached as Annexure-XII .
6.	At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.	Agreed & noted.
7.	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	Agreed. Dual plumbing system will be installed during the construction phase for the supply of fresh water for drinking, cooking and bathing etc. other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc.
8.	Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.	Agreed. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation will be incorporated in the building plan during construction phase & operation phase.
9.	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Agreed. Grey and black water will be separated by the use of dual plumbing system during the operational phase.
10.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Agreed. Ready mixed concrete, curing agents and other best practices will be used to reduce water demand during construction.
11.	The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain Water Harvesting pits shall be provided for ground water recharging as per the CGWB norms.	Agreed. The local bye-law provisions on rain water harvesting will be followed and the rain water harvesting pits for ground water recharging will be provided as per the CGWB norms.
12.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for use. The ground water shall not be withdrawn	Agreed. Rain water harvesting plan is attached as Annexure-XVIII .

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S. No.	Conditions of Environmental Clearance	Status of Compliance
	without approval from the Competent Authority.	
13.	All recharge should be limited to shallow aquifer.	Agreed. All recharge will be limited to shallow aquifer.
14.	No ground water shall be used during construction phase of the project.	Agreed. No ground water will be used during construction phase of the project as the water demand will be fulfilled by taking water supply permission from GMDA and the NOC for use of treated water for construction phase is attached as Annexure-XIX .
15.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	Agreed. Copy of water assurance is attached as Annexure-XII .
16.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Agreed. The quantity of fresh water usage, water recycling and rainwater harvesting will be measured and recorded to monitor the water balance during the operation phase.
17.	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.	Agreed. Sewage will be treated in the STP with tertiary treatment. The treated effluent from STP will be recycled/re-used for flushing, AC make up water and gardening. As proposed, No treated water will be disposed into municipal drain during the operation phase.
18.	No sewage or untreated effluent water would be discharged through storm water drains.	Agreed. No sewage or untreated effluent water will be discharged through storm water drains during the operations of the project. Sewerage assurance is attached as Annexure-XX .
19.	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	Agreed. Onsite sewage treatment of capacity of 100% waste water will be installed. The installation of the sewage treatment plant will be certified by an independent expert during the construction phase of the project. Treated waste water will be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water will be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems will be promoted during the operation phase.
20.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made	Agreed. Periodical monitoring of water quality of treated sewage will be conducted. We will make necessary measures to mitigate the odour problem from

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S. No.	Conditions of Environmental Clearance	Status of Compliance
	to mitigate the odour problem from STP.	STP during the operation phase.
21.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	Agreed. Collection, Convey and Disposal of the Sludge from the On-site sewage treatment including septic tanks will be done during the operation phase as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems.

IV. Noise monitoring and prevention.

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	Ambient noise levels shall conform to residential area/commercial area both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB /SPCB.	Agreed. Ambient noise levels have been in accordance to the Noise Pollution standards for residential/commercial area during day and night. Latest Ambient air quality monitoring report is attached as Annexure-XVII .
2.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional officer of the Ministry as a part of six-monthly compliance report.	Agreed. Noise level survey has been carried out as per the prescribed guidelines. Latest monitoring report is attached as Annexure-XVII .
3.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Agreed. We will implement the mitigation measures for noise impact due to ground sources such as Acoustic enclosures for DG sets, noise barriers for ground run bays, ear plugs for operating personnel during the operation phase.

V. Energy Conservation measures

S. No.	Conditions of Environmental Clearance	Status of Compliance
(i)	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency as per ECBC Act, 2017 read with ECBC Rules, 2018 shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC also which is in no case should be less than 25% as prescribed.	Agreed. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency will be ensured during the operation phase.
(ii)	Outdoor and common area lighting shall be LED.	Agreed. Outdoor and common area lighting will be LED.
(iii)	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window and roof R & U-values shall be as per ECBC specifications.	Agreed. We will incorporate the concept of passive solar design to minimize the energy consumption in buildings. Wall, window and roof R & U-values will be as per ECBC specifications during the construction phase.
(iv)	Energy conservation measures like installation of CFLs/ LED for the lighting outside the building should	Agreed. Energy conservation measures such as CFLs/ LED will be installed for the lighting the area outside

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	be integral part of the project design and should be in place before project commissioning.	the building during the construction phase and will be an integral part of the project design and will be in place before project commissioning.
(v)	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.	Agreed. We will install solar lights or panels during the construction phase to meet electricity generation equivalent to 1% of the demand load or as per the state level/local building bye-laws requirement, whichever is higher.
(vi)	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	Agreed. Solar power will be used for lighting in the apartment to reduce the power load on grid during the operation phase.
(vii)	The PP will submit report indicating compliance of each parameter of ECBC requirement and submit quantification saving report for each component.	Agreed & noted. We will comply with the same.

VI. Waste Management

S. No.	Conditions of Environmental Clearance	Status of Compliance
(i)	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W generated from project shall be obtained.	Agreed & noted.
(ii)	Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Agreed. Disposal of muck during construction phase will not create any adverse effect on the neighboring communities and will be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
(iii)	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	Agreed. Separate wet and dry bins will be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste will be segregated into wet garbage and inert materials during the construction phase as well as operational.
(iv)	Organic Waste Converter within the premises with a minimum capacity of 0.5 kg/person/day must be installed. Leaves to be put in earmarked pits for converting them into compost to be used as manure.	Agreed. An Organic waste converter will be installed within the premises having capacity of 600 Kg/day (1 in number) during the construction phase. Leaves will be put in earmarked pits for converting them into compost to be used as manure during the operation phase.
(v)	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	Agreed. All non-biodegradable waste will be handed over to authorized recyclers during the construction phase and operation phase.
(vi)	Any hazardous waste generated during construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution control Board.	Agreed. Only a limited amount of hazardous waste (Spent oil from DG set) will be generated during construction phase and will be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
(vii)	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime	Agreed. We will use Environment friendly materials in bricks, blocks and other construction materials.

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	Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	
(viii)	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27 th August, 2003 and 25 th January, 2016. Ready mixed concrete must be used in building construction.	Agreed. Fly ash will be used as building material in the construction as per the provisions. Also, Ready mixed concrete will be used in building construction.
(ix)	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.	Agreed. Any wastes from construction and demolition activities related thereto will be managed so as to strictly conform to the Construction and Demolition Rules.
(X)	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	Agreed. Collection and disposal of used CFL's and TFL's will be done properly for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination during the operation phase.

VII. Green Cover

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every single tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.	Agreed. Prior permission for the felling of trees has been obtained from concerned local authority and the compensatory plantation will be done as per the standard ration. Tree felling acknowledgement is attached as Annexure-XXI .
2.	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	Agreed. Topsoil will be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services during the construction phase. It will be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
3.	The PP shall ensure that the area marked for greenery and trees will not be rendered impervious by any means like soil, compaction or cement concrete or brick or tiles or rubber or plastic cover or any other impervious material in any manner and the area must be maintained pervious for water Infiltration/percolation and air flow in the soil. It must be straight on earth and not on any roof or slab of any tile.	Agreed & noted. We ensure that we will not render the green area by any means during the operation phase.

VIII. Transport

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b) Traffic calming measures.	Agreed. Traffic management plan has been prepared as per MoUD best practices guidelines including motorized, non-motorized, public, and private networks. Road will be designed with due consideration for environment, and safety of users including these basic criteria during the construction phase as well as operation phase. a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b) Traffic calming measures.

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	c) Proper design of entry and exit points. d) Parking norms as per local regulation.	c) Proper design of entry and exit points. d) Parking norms as per local regulation.
2.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.	Agreed. Construction material will be brought to the site by the vehicles which will be in good condition and will be having a valid pollution check certificate.
3.	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Agreed. Traffic management plan is attached as Annexure-II.

IX. Human health issues

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	Agreed. Dust mask will be provided to all the workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution.
2.	For indoor air quality the ventilation provisions as per National Building Code of India.	Agreed. For indoor air quality the ventilation provisions will be as per National Building Code of India during the construction phase.
3.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agreed. We will implement the Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan during the construction phase & operation phase.
4.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Agreed. No provision will be made for the housing of construction labour within the site as the labour will be outsourced locally. All necessary facilities will be provided to the construction labour such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc.
5.	Occupational health surveillance of the workers shall be done on a regular basis.	Agreed. Occupational health surveillance of the workers will be done on a regular basis during construction & operation.
6.	A First Aid Room shall be provided in the project both during construction and operations of the project.	Agreed. A first aid room will be provided during the construction phase and the same will be followed during the operational phase of the project.
7.	The project proponent shall comply with the provisions of CER, as applicable.	Agreed & noted. We will comply with the same during the operation phase.
8.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper	Agreed & noted. Copy of the Corporate Environment Policy is attached as Annexure-XXII.

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	checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/ or share holders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
9.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Agreed & noted. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel under the control of senior Executive will be set up during the construction phase & operational phase, who will directly to the head of the organization.
10.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Agreed. EMP spent budget for construction phase and operation phase is attached as Annexure-I .

X. Miscellaneous

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	Agreed. Copy of Newspaper advertisement is attached as Annexure-XXIII .
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in tum has to display the same for 30 days from the date of receipt.	Agreed & noted.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agreed & noted.
4.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Agreed & noted. We will submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal and soft copy of the same to SEIAA, Haryana.
5.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the	Agreed & noted.

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	company.	
6.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Agreed & noted. We will inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed. We will strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8.	The project proponent shall abide by all the commitments and recommendations made in the form-1A, Conceptual Plan and also that during their presentation to the Expert Appraisal Committee.	Agreed. We will abide by all the commitments and recommendations made in the form-1A, Conceptual Plan and also that during their presentation to the Expert Appraisal Committee.
9.	No further expansion or modifications in the plan shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)/SEIAA, Haryana. The project proponent shall seek fresh environmental clearance under EIA notification 2006 if at any stage there is change of area of this project.	Agreed & noted. We will not carry out any expansion or modification in the plan without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC)/SEIAA, Haryana. We will seek fresh environmental clearance under EIA notification, 2006 if at any stage there is change of area of this project.
10.	Any change in planning of the approved plan will leads to Environment clearance void-ab-initio and PP will have to seek fresh Environment Clearance	Agreed & noted. We ensure that we will not make/draw any change in planning of the approved plan and understand that doing so will lead to Environment clearance void-ab-initio and will have to seek fresh Environment Clearance.
11.	The PP should give unambiguous affidavit giving land promoters in accordance with your ownership and possession of land legal the case referred for Environment Clearance to SEIAA.	Agreed & noted. We will implement the same.
12.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed & noted. We will not submit any false information and will not conceal factual data as by doing so may result in revocation of this environmental clearance and attract action.
13.	The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed & noted. We will implement the stipulation of Environmental conditions in a satisfactorily manner.
14.	The Ministry/SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed & noted. We will implement the conditions in a time bound manner if Ministry/SEIAA stipulates additional conditions.
15.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed & noted. We will extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data/information/monitoring reports.
16.	The above conditions shall be enforced, inter-alia under the provisions of the Water(Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Agreed. We will comply with all the conditions enforced, inter-alia under the provision.
17.	The validity of this environment clearance letter is	Agreed & noted. We will comply with all the conditions

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	valid up to 10 years from the date of issuance of EC letter in accordance with the MoEF & CC, GoI Notification No. S.O.1807 (E), dated the 12 th April, 2022. The environment clearance conditions applicable till life space project will continue to apply. In case of violation the action will be taken as per the laid down law of land. Compliance report shall be sent to this office till life of the project.	laid down in EC letter until the applicability or validity of EC letter. Copy of EC letter is attached as Annexure-III .
18.	If project is not completed within the validity period then the project proponent shall submit the application for extension of validity within one month before the lapse of validity period of Environment Clearance.	Agreed & noted. We will submit an application form for extension of validity within one month before the lapse of validity period, if the project is not completed within the validity period.

3

DETAILS OF ENVIRONMENTAL MONITORING

3.1 AMBIENT AIR QUALITY MONITORING

3.1.1 Ambient Air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at 3 locations. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in **Table 3.1**.

Table 3.1 Details of Ambient Air Quality Monitoring Stations

S. No.	Location	Location Name/ Description
1.	AAQ 1	Near Main Gate
2.	AAQ 1	Center of Project
3.	AAQ 1	Back Side of Project

AAQ-1: Near Main Gate

The sampler was placed near main gate of project site and was free from any obstructions. Surroundings of the sampling site represent Commercial environmental setting

AAQ-2: Center of Project

The sampler was placed near center of project and was free from any obstructions. Surroundings of the sampling site represent Commercial environmental setting

AAQ-1: Back Side of Project

The sampler was placed near Back Side of Project site and was free from any obstructions. Surroundings of the sampling site represent Commercial environmental setting

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter 10 (PM 10)
- Particulate Matter 2.5 (PM 2.5)
- Nitrogen Dioxide (as NO₂)
- Sulphur Dioxide (as SO₂)
- Carbon Monoxide (as CO)
- Benzene (as C₆H₆)
- Ammonia (as NH₃)
- Ozone (as O₃)
- Lead (as Pb)
- Arsenic (as As)
- Nickel (as Ni)
- Benzo (alpha) pyrine

Installation of Respirable Dust sampler (RDS) & Fine Particulate Sampler (FPS) was done with the attachment for the 24 hourly ambientairqualitiesmonitoring as per Gazette Notification 16th November 2009.

The air samples were analyzed as per standard methods specified by Central Pollution Control

Board (CPCB) and IS: 5182. The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table 3.2**.

Fine Particulate Sampler instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5} i.e. <2.5 microns), and Respirable Dust Sampler was used for sampling Repairable fraction (<10 microns), gaseous pollutants like SO₂, and NO₂. Bladder and Aspirator bags were used for collection Carbon monoxide samples. Gas Chromatography techniques have been used for the estimation of CO.

Table 3.2 Techniques used for Ambient Air Quality Monitoring

S. No.	Parameter	Technique	Technical Protocol
1	Particulate Matter (as PM- 10)	Respirable Dust Sampler, with cyclone separator, Gravimetric Method	IS: 5182 (P-23) : 2006 RA : 2017
2	Particulate Matter (as PM-2.5)	Fine Particulate Sampler, Gravimetric Method	IS: 5182 (P-24) : 2019
3	Nitrogen Dioxide (as NO ₂)	Jacob &Hochheiser	IS: 5182 (P-6) 2006 RA:2022
4	Sulphur Dioxide (as SO ₂)	Modified West and Gaeke	IS: 5182 (P-2) RA:2023
5	Carbon Monoxide (as CO)	Gas Chromatography	IS:5182 (P-10), NDIR Method
6	Benzene (as C ₆ H ₆)	Gas Chromatography	IS: 5152 (Part-11)
7	Ammonia (as NH ₃)	Distillation Method	VEL/EN/STP/155, Issue No.- 01, Issue Date 01/11/2023
8	Ozone (as O ₃)	Colorimetry	IS: 5182 (P-9)
9	Lead (as Pb)	Atomic Absorption Spectro-photometer	IS: 5182 (P-22)
10	Arsenic (as As)	Atomic Absorption Spectro-photometer	VEL/EN/STP/110, Issue No.1, Issue date 01/11/2023
11	Nickel (as Ni)	Atomic Absorption Spectro-photometer	IS: 5182 (P-26)
12	Benzo (alpha) pyrine	Gas Chromatography	VEL/EN/STP/157, Issue No.- 01, Issue Date 01/11/2023

3.1.3 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂, NO_x and CO are presented in **Table 3.3**.

Table 3.3 Ambient Air Quality Monitoring Results

S. No.	Parameter	Test Result			NAAQS*
		AAQ1	AAQ2	AAQ3	
1.	Particulate Matter (as PM – 10)	87.45	89.76	85.42	100
2.	Particulate Matter (as PM – 2.5)	46.30	45.20	44.61	60
3.	Nitrogen Dioxide (as NO ₂)	28.41	27.61	27.45	80
4.	Sulphur Dioxide (as SO ₂)	15.64	16.42	17.54	80
5.	Carbon Monoxide (as CO)	0.68	0.65	0.61	4.0
6.	Benzene (as C ₆ H ₆)	BLQ(LOQ-0.5)	BLQ(LOQ-0.5)	BLQ(LOQ-0.5)	5.0
7.	Ammonia (as NH ₃)	24.15	23.41	24.12	400
8.	Ozone (as O ₃)	18.67	17.68	16.30	180.0
9.	Lead (as Pb)	BLQ(LOQ-0.1)	BLQ(LOQ-0.1)	BLQ(LOQ-0.1)	1.0
10.	Arsenic (as As)	BLQ(LOQ-0.1)	BLQ(LOQ-0.1)	BLQ(LOQ-0.1)	6.0
11.	Nickel (as Ni)	BLQ(LOQ-5.0)	BLQ(LOQ-5.0)	BLQ(LOQ-5.0)	20.0
12.	Benzo (alpha) pyrine	BLQ(LOQ-0.5)	BLQ(LOQ-0.5)	BLQ(LOQ-0.5)	1.0

* NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

SOP- Laboratory Standard Operating Procedure this parameter is not covered in our NABL Scope

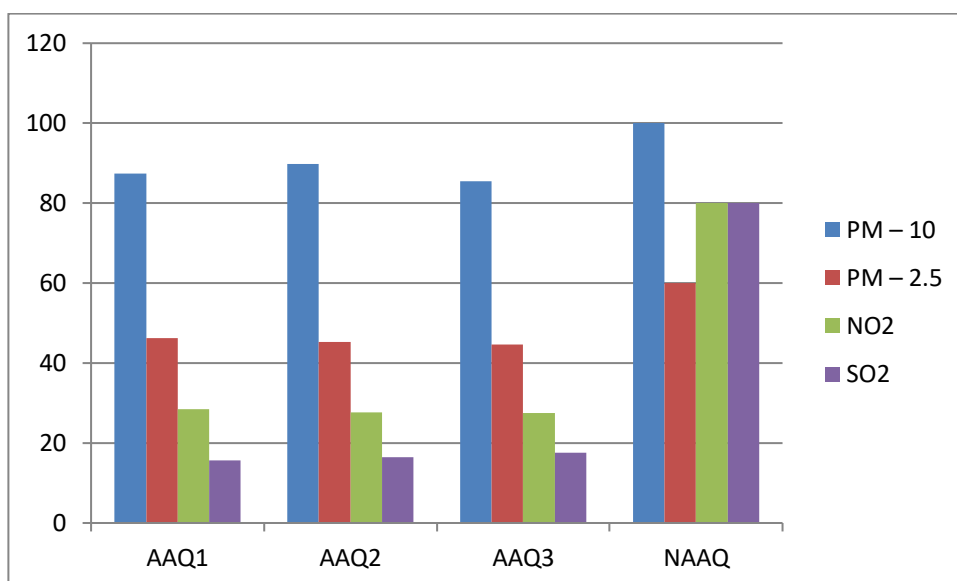


Figure 3.1 Location-wise Variation of Ambient Air Quality (PM_{2.5}, PM₁₀, SO_x, NO_x)

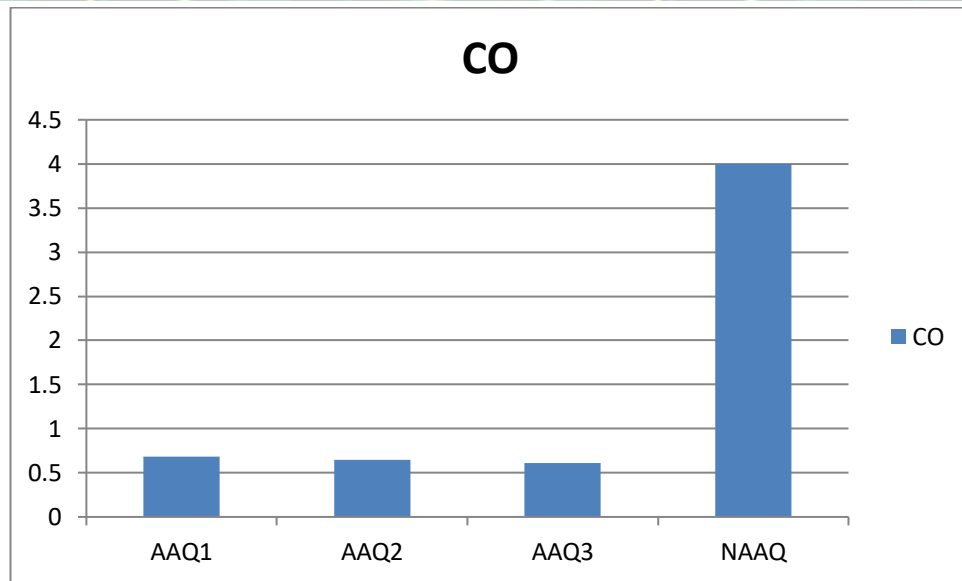


Figure 3.2 Location-wise Variation of CO in Ambient Air Quality

3.1.4 Discussion on Ambient Air Quality in the Study Area

PM₁₀ and PM_{2.5} levels at the project site are within the permissible limit of 100 µg/m³ and 60 µg/m³ respectively (for commercial, rural and other areas as stipulated in the National Ambient Air Quality Standards). SO₂, NO_x and CO was observed within the corresponding stipulated limits (Limit for SO₂ and NO_x: 80 µg/m³ and limit for CO: 4.0 mg/m³) at all monitoring locations. Station wise variation of ambient air quality parameters has been pictorially shown in **Figure 3.1-3.3**.

3.2 AMBIENT NOISE MONITORING

3.2.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels near Main Gate, of Project due to various construction allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at three locations at the boundary of the project site as given in **Table 3.4**.

Table 2.4 Details of Ambient Noise Monitoring Stations

S. No.	Location Code	Location Name/ Description
1.	N1	Near Main Gate
2.	N2	Center of Project
3.	N3	Back Side of Project

3.2.2 Methodology of Noise Monitoring

Noise levels were measured using sound level meter Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 06:00am to 06:00am next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Monitoring was carried out at 'A' response

and fast mode.

3.2.3 Ambient Noise Monitoring Results

The location wise ambient noise monitoring results is summarized in **Table 3.5**. The location-wise variation of noise levels are graphically presented in **Figure 3.2**.

Table 3.5 Ambient Noise Monitoring Results

Parameters	N1		N2		N3	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Leq	50.43	41.63	49.67	40.16	52.46	42.15
CPCB Limits in dB(A) Leq (Residential Area)	55	45	55	45	55	45

3.2.4 Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels (L_{day}):

The day time noise level at all the locations were found to within limits prescribed for Residential area i.e. 55 dB (A).

Night Time Noise Levels (L_{night}):

The night time noise level at all the locations were found to within limit prescribed for Residential area i.e. 45 dB (A).

3.3 SOIL MONITORING

3.3.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various constructions allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the Physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. Single sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in **Table 3.6**.

Table 3.6 Details of Soil Quality Monitoring Location

S. No.	Location Code	Location Name/ Description
1.	S1	Project Site

3.3.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2720 & Methods of Soil Analysis, Part-1, 2nd edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations).

The samples have been analyzed as per the established scientific methods for Physico-chemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectrophotometer.

3.3.3 Soil Monitoring Results

Single sample of soil is collected from the site to check the quality of soil of the study area .The physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in **Table 3.7**.

Table 3.7 Physico-Chemical Characteristics of Soil in the Study Area

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26)	7.76	--
2.	Electrical Conductivity	IS : 14767	0.342	mS/cm
3.	Colour	VEL/EN/STP/67, Issue No.- 01, Issue date 01/11/2023	Brownish	--
4.	Water holding capacity	VEL/EN/STP/86, Issue No.- 01, Issue date 01/11/2023	30.14	%
5.	Bulk density	VEL/EN/STP/59, Issue No.- 01, Issue date 01/11/2023	1.45	gm/cc
6.	Chloride (as Cl)	VEL/EN/STP/69, Issue No.- 01, Issue date 01/11/2023	168.52	mg/kg
7.	Calcium (as Ca)	VEL/EN/STP/72, Issue No.- 01, Issue date 01/11/2023	142.51	mg/kg
8.	Sodium (as Na)	VEL/EN/STP/62, Issue No.- 01, Issue date 01/11/2023	76.20	mg/kg
9.	Potassium (as K)	VEL/EN/STP/61, Issue No.- 01, Issue date 01/11/2023	102.34	mg/kg
10.	Organic Matter	IS 2720 (P-22)	0.45	%
11.	Magnesium (as Mg)	VEL/EN/STP/72, Issue No.- 01, Issue date 01/11/2023	26.34	mg/kg
12.	Available Nitrogen (as N)	IS:14684	220.12	kg./hec.
13.	Available Phosphorus	VEL/EN/STP/73, Issue No.- 01, Issue date 01/11/2023	25.41	kg./hec.
14.	Total Zinc (as Zn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/11/2023	20.41	mg/kg
15.	Total Manganese (as Mn)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/11/2023	16.42	mg/kg
16.	Total Chromium (as Cr)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/11/2023	7.12	mg/kg
17.	Total Lead (as Pb)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/11/2023	2.14	mg/kg
18.	Total Cadmium (as Cd)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/11/2023	BLQ(LOQ-0.5)	mg/kg
19.	Total Copper (as Cu)	VEL/HW/STP/03, Issue No.- 01, Issue date 01/11/2023	5.30	mg/kg
20.	Soil Texture	VEL/HW/STP/64, Issue No.- 01, Issue date 01/11/2023	Sandy Loam	--

3.4.4 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the project activities.

3.4 WATER QUALITY MONITORING

3.4.1 Drinking Water Quality Monitoring Locations

Keeping in view the importance of Drinking Water as an important source of drinking water to the local population, sample of ground water was collected from the project site for the assessment of impacts of the project on the groundwater quality.

Water sample was collected from the project site. The sample was analyzed for various parameters to compare with the standards for drinking water as per IS: 10500 for ground water sources. The details of water sampling locations are given in **Table 3.6**.

Table 3.6 Details of Water Quality Monitoring Station

S. No.	Location Code	Location Name/ Description
1.	DW 1	Drinking Water (Project site)

3.4.2 Methodology of Ground Water Quality Monitoring

Sampling of Drinking water was carried out. Samples were collected as grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. Sample for chemical analysis was collected in polyethylene carboys. Sample collected for metal content were acidified to <2 pH with 1 ml HNO₃. A sample for bacteriological analysis was collected in sterilized glass bottles.

Soon after the completion of sampling, chain of custody sheets for the samples are filled in and then they were transported to laboratory for further analysis. Proper care was taken during packing and transportation of samples. All the samples reached the central laboratory within the holding times for different parameters. After ensuring the same the samples were forwarded immediately for analysis.

The samples were analyzed as per the standard procedures specified in 'Standard Methods for the Examination of Water and Wastewater' published by American Public Health Association (APHA) and CPCB. The analytical techniques and the test methods adopted for testing of Drinking water are given in **Table 3.7**.

3.4.3 Drinking water Quality Monitoring Results

The detailed Drinking water quality monitoring results are presented in **Table 3.7**

Table 3.7 Drinking water Quality Monitoring Result

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS:3025 (Part 11):2022 (Using by Electrode)	7.85	--	6.5 to 8.5	No Relaxation
2.	Colour, max	IS:3025 (Part-4) : 2021 (Visual Comparison Method)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity, max	IS: 3025:P-10: 2023 (Nephelometric Method)	<1.0	NTU	1	5
4.	Odour	IS:3025 part-5: 2018	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS 3025 (Part 8): 2023	Agreeable	--	Agreeable	Agreeable
6.	Total Dissolved Solids (at 180°C ± 1°C),max	IS:3025:P-16: 2023 (Gravimetric Method)	156.00	mg/l	500	2000
7.	Calcium (as Ca),max	IS:3025:Part-40: 1991 (EDTA Titrimetric Method)	21.51	mg/l	75	200
8.	Alkalinity (as CaCO ₃)	IS:3025:Part 23: 2023 (Indicator Method)	93.45	mg/l	200	600
9.	Chloride (as Cl),max	IS:3025:Part-32: 1988 (Argentometric Method)	26.14	mg/l	250	1000
10.	Magnesium (as Mg)	IS:3025:Part-46: 2023 (Volumetric Method using EDTA)	5.31	mg/l	30	100
11.	Total Hardness (as CaCo3),max	IS:3025:P-21:2009 (EDTA Method)	75.64	mg/l	200	600
12.	Sulphate(as SO ₄),max	IS:3025: (Part24/Sec-1):2022 (Turbidity Method)	5.31	mg/l	200	400
13.	Fluoride (as F),max	APHA 4500 F-D:24th Edition : 2023 (SPADNS Method)	BLQ(LOQ-0.2)	mg/l	1.0	1.5
14.	Nitrate (as NO ₃),max	IS:3025 P-34/Sec1)2023:(Screening Method)	1.65	mg/l	45	No Relaxation
15.	Iron (as Fe),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.01)	mg/l	1.0	No relaxation
16.	Aluminum (as Al),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.005)	mg/l	0.03	0.2

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17.	Boron (as B),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.01)	mg/l	0.5	2.4
18.	Total Chromium (as Cr),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.002)	mg/l	0.05	No Relaxation
19.	Phenolic Compounds (C6H5OH),max	Clause-6 of IS:3065(P-43/Sec- 1):2022, (With Chloroform Extraction Method)	BLQ(LOQ-0.001)	mg/l	0.001	0.002
20.	Mineral Oil,max	IS 3025 (Part 39), Infrared Spectroscopic Method	BLQ(LOQ-0.5)	mg/l	1.0	No Relaxation
21.	Anionic Detergents (as MBAS),max	IS:3025:P-68:2019 (Methylene Blue Method)	BLQ(LOQ-0.05)	mg/l	0.2	1.0
22.	Zinc (as Zn),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.01)	mg/l	5.0	15.0
23.	Copper (as Cu),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.002)	mg/l	0.05	1.5
24.	Manganese (as Mn),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.01)	mg/l	0.1	0.3
25.	Selenium (as Se),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
26.	Cadmium (as Cd),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead (as Pb),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Cyanide (as CN),max	IS 3025 (P-27/Sec-1) :2021(Pyridine Barbituric Acid Method)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
29.	Arsenic (as As),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury (as Hg),max	VEL/W/STP/ 03, Issue No.-01, Issue date-01/11/23:2023	BLQ(LOQ- 0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185	Absent	/100ml	Shall not be detectable in any 100 ml sample	--
32.	E. coli	IS 15185	Absent	/ 100ml	Shall not be detectable in any 100 ml sample	--

Note:-This Report Complies as per IS: 10500:2012 (RA: 2018)

*BLQ-Below Limit of Quantification, **LOQ- Limit of Quantification.

©Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in Sept. 2018 (Limit of Boron & IS method of Total Coliform & E.Coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

3.5 Stack Emission Monitoring

Table 3.8 Details of Stack Monitoring Stations

S. No.	Location Code	Capacity
1.	DG1	82.5 KVA

Table 3.9 Stack Monitoring Results

Location- DG1

S. No.	Test Parameters	Test Method	Results	Units	Limits as Per CPCB
1.	Particulate Matter (as PM)	IS: 11255 (P-1) :2019	0.018	g/kw-hr	0.02
2.	Oxide of Nitrogen (as NO _x)	VEL/EN/STP/146, Issue No.-01, Issue Date-01/11/2023	0.264	g/kw-hr	0.40
3.	Carbon Monoxide (as CO)	VEL/EN/STP/146, Issue No.-01, Issue Date-01/11/2023	0.367	g/kw-hr	3.5
4.	Total Hydrocarbon (as HC)	VEL/EN/STP/137, Issue No.-01, Issue Date-01/11/2023	0.045	g/kw-hr	0.19

Note: * STP-Standard Testing Procedure.

3.6 Point Source (DG Noise) Monitoring

Table 3.10 Details of Point Source Monitoring Stations

S. No.	Location Code	Capacity
1.	DG1	82.5 KVA

Table 3.11 DG Noise Monitoring Results

S. No.	Parameters	Protocol	Result dB(A)		
			Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 m Distance) Result dB(A)	Insertion Loss
1.	Leq	IS-4758	96.5	71.1	25.4
2.	CPCB Limit in Leq dB (A)	--	--	75.0 (Max.)	25.0 (Min.)

Note- * A "decibel" is a unit in which noise is measured

Site Photographs:



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