

## DLF Limited

DLF Gateway Tower, R Block, DLF City,  
Phase III, Gurugram-122 002, Haryana  
Tel.: (+91-124) 4396000

**DLF**  
BUILDING INDIA

To

Date: <sup>16/05/23</sup>  
~~08.05.2023.~~

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 Construction of Expansion of Independent Floors "The Grove" at Block B, Sector 54, DLF 5, Gurugram, Haryana for the period of October 2022 to March 2023 (due to 1st June 2023).**

Sir,

In accordance to the Environmental Clearance received from the State Environment Impact Assessment Authority (SEIAA), Haryana, for the above project vide letter no. SEIAA/HR/2021/490 dated 29/01/2022 we are submitting herewith Six-monthly Compliance Report of stipulated condition of Environment Clearance (in one soft copy in CD) for the period **October 2022 to March 2023**.

Thanking You

Yours sincerely,  
For DLF Limited & Others  
(On behalf of Limited)

(Authorized Signatory)

Name - Alok Kumar  
Designation - Chief Architect (EVP)  
E-mail - kumar-alok@dlf.in  
Contact No. - 9811307948



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).

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

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## Half yearly Compliance Report for the submission period of June 2023

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Vardan Compliance <compliance@vardan.co.in>

Fri, Jun 2, 2023 at 2:20 PM

To: Environment Wing IRO Chandigarh <ecompliance-nro@gov.in>

Respected Sir

Please find the enclosed Half yearly Compliance Report for the submission period of June 2023 for **M/s DLF Limited & Others**

Expansion of Independent Floors "The Grove" at Block B, Sector 54, DLF 5, Gurugram, Haryana

Thanks and Regards



Environmental Compliance  
Department

☎ 0124-4343750 Extn 786/789

✉ compliance@vardan.co.in

📍 Plot No. 82A, Sec-5, IMT Manesar, Gurugram - 122051 (Hr), India



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 **DLF The Grove.pdf**  
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Category : <input type="text" value="INFRA-2"/>	MoEF File No. : <input type="text" value="File.No. SEIAA/HR/2021/490"/>

Compliance Letter/Report

Year of Compliance: <input type="text" value="-All Years-"/>	Date of Compliance * : <input type="text" value="Select"/>
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Sno.	Proposal No.	Uploaded copy of Compliance report	Remarks	Uploaded Date	Delete
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### Form for Uploading Compliance Report

Proposal No : <input type="text" value="SIA/HR/MIS/239923/2021"/>	Proposal Name : <input type="text" value="Expansion of Independent Floors 'The Grove' at Block B, Sector 54, DLF 5, Gurugram, Haryana by M/s DLF Limited &amp;"/>
Category : <input type="text" value="INFRA-2"/>	MoEF File No. : <input type="text" value="File.No. SEIAA/HR/2021/490"/>

Compliance Letter/Report

Year of Compliance: <input type="text" value="-All Years-"/>	Date of Compliance * : <input type="text" value="Select"/>
Remarks : <input style="width: 95%;" type="text"/>	Upload Compliance Letter/Report * : <input type="button" value="Choose file"/> No file chosen (.pdf only)
<input style="background-color: #007bff; color: white; padding: 10px 20px;" type="button" value="SUBMIT"/>	

Sno.	Proposal No.	Uploaded copy of Compliance report	Remarks	Uploaded Date	Delete
1	SIA/HR/MIS/239923/2021	0527202338413692DLFTheGrove.pdf	Half yearly compliance report Submission period of June 2023	27/05/2023	

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# 1

## INTRODUCTION

### 1.1 Introduction

M/s DLF Limited & Others has proposed Expansion of Independent Floors "The Grove" at Block B, Sector 54, DLF 5, Gurugram, Haryana by M/s DLF Limited & Others

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

#### 1.2 Purpose of the Project:

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 and HSPCB, Panchkula. 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.

#### 1.3 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, Noise & Soil by the NABL/Moef labs
- 4) Interpretation of Monitoring Results.
- 5) Preparation of half yearly Environmental Compliance Report.

**1.4 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.

**1.5 Construction Status:**

- **Started**



**2**

**ADHERENCE TO SPECIFIC AND GENERAL CONDITIONS**

**Specific Condition**

<b>S. No.</b>	<b>Conditions of Environmental Clearance</b>	<b>Status of Compliance</b>
1.	Sewage shall be treated in the modular STP 15 MLD (9+6) based on SBR & MBR Technology to achieve standards ordered by NGT. The Treated effluent from STP shall be recycled/ reused for flushing. DG cooling and Gardening	<i>Noted &amp; Agreed.</i>
2.	The PP shall spent Rs.5 Lakhs on various wildlife conservation activities like artificial nests on the trees, digging of ponds and construction of feeding platforms through Environment Management Plan	<i>We assure that the fund will be spent on various kinds of activities through Environmental Management Plan.</i>
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.	<i>Agreed and same will be complied.</i>
4.	The PP shall endure that 2% of the cost of the project shall be spent on EMP Budget. However, the amount and component shown in EMP table above shall also be included for the purpose of 2% amount. 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.	<i>Noted and agreed.</i>
5.	The PP shall not carry out any construct above and below revenue rasta if passing through the project and ensure that permission of the competent authority shall be obtained before carry out any construction above or below the revnue rasta. The PP shall put notice board on the revenue rasta for the passer byes	<i>No construction will be carried out above or below the revenue rasta without any prior permission.</i>
6.	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.	<i>We assure that the monitoring data with environment clearance conditions including results of monitored data will be regularly uploaded on our website.</i>
7.	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 sets using recycled treated water and fresh waters for flushing, and quantity of water being supplied through spray faucets attached to toilet seats.	<i>Agreed and same will be complied.</i>
8.	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	<i>Separate dust bins will be used to segregate the waste material on the project site. Different types of waste will be collected separately and disposed as per the norms.</i>

**Environmental Clearance for Expansion of Independent Floors "The Grove" at Block B, Sector 54, DLF  
5, Gurugram, Haryana by M/s DLF Limited & Others  
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	materials. Wet Garbage shall be composted in Organic waste convertor. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, Composting. The inert waste from the project will be sent to be dumping site through authorized vender.	
9.	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 habitation being carried out or purpose to be carried out by the project or other agencies in this 05kms radius of the site in different scenarios of space and time	<i>Agreed and complied.</i>
10.	No tree cutting has been proposed in the instant project. A minimum of 1 tree for every 80sqm of land should be planted and maintained. The Existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 16,302.754 sq.m. (25.25%) shall be provided for Green Area development for whole project, excluding plot areas.	<i>Adequate green area will be developed in the due course of time with native plant species.</i>
11.	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.	<i>We have obtained necessary clearances before the start of construction. Construction will be done as per the NBC norms.</i>
12.	Consent to establish/ Operate for the 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.	<i>Consent to establishment for the project has already been obtained prior to start of the project activity and submitted to SEIAA. Copy of same is enclosed as <b>Annexure-2</b></i>
13.	The Approval of the Competent Authority shall be obtained for structural safety of building code due to earthquakes, adequacy of fire fighting equipment's etc. as per National Building Code including protection measures from lightening etc.	<i>Noted.</i>
14.	The PP shall obtain the fire NOC from the Competent Authority before taking the Occupation the Building.	<i>Occupation Certificate will be obtained before taking occupation the building.</i>
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 by30% if HSD is used. The DG sets will be operated for maximum 04 hours during power failure through Executing Agency	<i>Agreed &amp; Noted</i>
16.	The PP shall not give occupation or possession before the Water supply Sewage connection permitted by the competent Authority.	<i>We have already obtained the water assurance from HSVP and is also attached as <b>Annexure-3</b></i>
17.	The PP shall not give occupation or possession before the electricity connection permitted by the competent Authority.	<i>Power assurance has already been obtained from HVPNL is attached as <b>Annexure-4</b></i>

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18.	The PP Shall obtain the permission regarding the withdrawal of ground water from CGWA before the start of the project and also obtained the CTO from HSPCB after the Approval; from CGWA.	<i>No ground water will be used at the project site before obtaining prior clearance from CGWA.</i>
19.	The PP shall carry out the quarterly awareness program for the stakeholders of the Project.	<i>Agreed and same will be complied.</i>
20.	35Rain water harvesting recharge pits shall be provided for ground water recharging as per the CGWB norms in addition to 38 existing RWH. Total 73 RWH	<i>Adequate number of rainwater harvesting pits will be developed at the project site.</i>
21.	The PP shall install Digital water level recorder for monitoring the water recharge and carry out quarterly maintenance and cleaning of 35RWH pits in expansion and total 73 RWH pits.	<i>Digital meters will be installed to monitor the water recharge and maintenance record of 73 RWH Pits.</i>
22.	The PP shall provide the Anti smog gun mounted on vehicle in the project for suppression of dust during construction & operational phase and shall use the treated water, if feasible.	<i>Agreed and same will be complied.</i>
23.	The PP shall take preventive measures including water sprinkling to control dust during construction & operational phase.	<i>Agreed &amp; Noted</i>
24.	Any change in stipulation of EC Will lead to Environment Clearance void-ab-initio and PP will have to seek fresh Environment Clearance.	<i>Fresh EC will be obtained before any change in the plan of project.</i>
25.	Adequate studies have been carried out to ascertain that there would not be any obstruction or impediment in general traffic in vicinity of the project due to the said expansion of the project	<i>Agreed &amp; Noted</i>
26.	The no. of in-bound & out-bound vehicles (23 PCU/Hr.) and the running hours per day (24 Hr) of DG sets considered while undertaking the studies for evaluating the "Incremental Pollution Load" and those are true to best of our knowledge	<i>Agreed &amp; Noted</i>
27.	The proposed/installed DG sets & fuel to be used would be as per NCAP/GRAP	<i>Agreed &amp; Noted</i>
28.	No untreated water would be released inside or outside the project or anywhere; waste water would be treated to tertiary level & would be used with the installation of "Dual plumbing".	<i>No untreated water will be released outside the project premises and same will be used with the dual plumbing.</i>
29.	Before coming to operation, Project proponent will ensure that all the permissions & connections pertaining to Electricity/water & Sewage discharge are in place	<i>Noted and same will be complied.</i>

**B. Statutory 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.	<i>We have obtained necessary clearances before the start of construction. Construction will be done as per the NBC norms.</i>
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2.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment etc. as per National Building Code including protection measures from lightening etc.	<i>Noted.</i>
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.	<i>The project does not fall under any forest area marked by government. NOC from DFO has been obtained and submitted to the authority and same is attached as Annexure-5</i>
4.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	<i>As the project doesn't fall in any eco sensitive zone or protective area, hence wildlife approval is not needed.</i>
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.	<i>Necessary clearances, licenses and approvals have been obtained as per the requirement from competent authorities.</i>
6.	The project proponent shall obtain the necessary permission for drawl of ground water/ surface water required for the project from the Competent authority.	<i>Agreed&amp; Noted</i>
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.	<i>Agreed&amp; Noted</i>
8.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, fire Department, Civil aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	<i>As this is a construction project, no major amount of diesel will be stored at site. Hence NOC is not required.</i>
9.	The provisions of the Solid waste (Management Rules, 2016, e-Waste (Management) Rules, 2016, and the plastic Waste (Management) Rules, 2016 and Batteries waste (Management Handling Rules 2001 as amended in 2020) shall be followed.	<i>Waste will be disposed as per the guidelines.</i>
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.	<i>ECBC rules &amp; Regulations are being considered during construction phase.</i>

**I. Air Quality Monitoring And Preservation**

<b>S. No.</b>	<b>Conditions of Environmental Clearance</b>	<b>Status of Compliance</b>
<b>i</b>	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.	<i>Dust Mitigation measures and water sprinkling system will be provided at site during construction.</i>
<b>ii</b>	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	<i>Low sulphur diesel type DG sets will be used during construction phase.</i>
<b>iii</b>	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.	<i>We ensure that vehicles hired for bringing construction material to the site will have PUC certificate. Monitoring reports will be submitted on regular basis. Same is attached as Annexure 2</i>



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<b>iv</b>	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. The location of the DG sets may be decided with in consultation with State Pollution Control Board	<i>Acoustically enclosed DG sets will be installed to conform to the guidelines under EPA Act.</i>
<b>v</b>	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.	<i>Proper barricading has been done before the start of construction at site. Sign board and screens have been provided when construction starts at site. Construction material will be stored with cover and tarpaulins so that no dust emission occurs at and around the site.</i>
<b>vi</b>	Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	<i>Construction material will be cover properly.</i>
<b>vii</b>	Wet jet shall be provided for grinding and stone cutting.	<i>Noted.</i>
<b>viii</b>	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	<i>Noted.</i>
<b>ix</b>	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.	<i>Construction debris will be disposed safely so that it would not create any adverse effects on environment as well as nearby societies.</i>
<b>x</b>	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.	<i>Ultra LSD will be installed for construction purpose.</i>
<b>xi</b>	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.	<i>Adequate height will be provided for stack as per CPCB norms.</i>
<b>xii</b>	For indoor air quality the ventilation provisions as per National Building code of India.	<i>Noted.</i>

**II water quality monitoring and preservation**

<b>S. No.</b>	<b>Conditions of Environmental Clearance</b>	<b>Status of Compliance</b>
<b>[i]</b>	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.	<i>No natural drain will be disturbed during the construction phase.</i>
<b>[ii]</b>	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and	<i>Noted and agreed.</i>

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	filling should be done.	
<b>[iii]</b>	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.	<i>We assure that total fresh requirement will not exceed the proposed water requirement.</i>
<b>[iv]</b>	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/ SEIAA along with six monthly Monitoring reports.	<i>Digital flow meters will be installed to monitor the water usage, water recycling and rainwater harvesting.</i>
<b>[v]</b>	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.	<i>Noted and same will be complied.</i>
<b>[vi]</b>	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.	<i>Adequate open space will be developed as grass paver and paver blocks.</i>
<b>[vii]</b>	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	<i>Noted.</i>
<b>[viii]</b>	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.	<i>Adequate water saving devices will be installed to reduce the water usage..</i>
<b>[ix]</b>	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 are done.	<i>Dual plumbing will be installed to separate grey and black water.</i>
<b>[x]</b>	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	<i>Premixed concrete will be used to reduce the water demand.</i>
<b>[xi]</b>	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. 06 Rain water harvesting recharge pits/ storage tanks shall be provided for ground water recharging as per the CGWB norms.	<i>Noted.</i>
<b>[xii]</b>	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	<i>Rainwater harvesting plan has been already prepared and submitted to the competent authority.</i>

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S. No.	Conditions of Environmental Clearance	Status of Compliance
	stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	
[xiii]	All recharge should be limited to shallow aquifer.	<i>Noted and agreed.</i>
[xiv]	No ground water shall be used during construction phase of the project.	<i>Noted. Water requirement will be met through HUDA water supply.</i>
[xv]	Any groundwater 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.	<i>No ground water will be used without any prior dewatering permission from competent authority.</i>
[xvi]	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/SEIAA along with six monthly Monitoring reports.	<i>Noted and will be complied.</i>
[xvii]	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 drains.	<i>Treated sewage water will be reused for flushing, horticulture and other purposes at the project site.</i>
[xviii]	No sewage or untreated effluent water would be discharged through storm water drains.	<i>The all effluent water will be treated and used inside the project site.</i>
[xix]	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.	<i>Noted.</i>
[xx]	Periodical monitoring of water quality of treated sewage shall be Conducted. Necessary measures should be made to mitigate the odour problem from STP.	<i>Periodic monitoring of treated water will be done to measure the quality of the water.</i>
[xxi]	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	<i>Noted.</i>

**III. Noise monitoring and prevention.**

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone 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	<i>Noise level survey will be carried out as per the guidelines. Monitoring reports are enclosed as <b>Annexure-3</b></i>

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	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.	
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/ SEIAA as a part of six-monthly compliance report.	<i>Noted.</i>
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.	<i>Noted.</i>

**IV. 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 in no case shall be less than 25% as prescribed.	<i>Solar power generation system will be installed as per the requirement to meet 1% of total power load of the demand. Plan in this regard has been submitted.</i>
(ii)	Outdoor and common area lighting shall be LED.	<i>Solar power will be used in street lightening and apartment to reduce the power load. Separate meter will be installed for solar power load.</i>
(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.	<i>We will ensure to comply with ECBC norm during building design. Outdoor and common area will be lightened with solar light to reduce electricity load on power grid.</i>
(iv)	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	<i>LED lights will be provided in residents and office areas</i>
(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-law's requirement, whichever is higher.	<i>Noted.</i>
(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.	<i>Noted.</i>
(vii)	The PP will submit report indicating compliance of each parameter of ECBC requirement and submit Quantification saving report for each component.	<i>Noted.</i>



### **V. Waste Management**

<b>S. No.</b>	<b>Conditions of Environmental Clearance</b>	<b>Status of Compliance</b>
<b>(i)</b>	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.	<i>We will ensure that disposal of muck during development and construction of the project not creates any adverse effect on nearby communities. Hazardous waste will be disposed off through authorized vendors.</i>
<b>(ii)</b>	Disposal of muck during construction phase shall not create any adverse effect on the neighbouring 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.	<i>Disposal of waste generated during construction phase will be disposed off through authorized vendors.</i>
<b>(iii)</b>	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.	<i>Solid waste generated during construction phase will be separately collected and segregated.</i>
<b>(iv)</b>	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.	<i>The bio-degradable waste will be treated by appropriate technology at the site ear-marked within the project area and non-biodegradable solid waste would be disposed off to municipal landfill sites after recovering recyclable wastes.</i>
<b>(v)</b>	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	<i>Solid waste generated during construction phase will be collected and segregated.</i>
<b>(vi)</b>	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	<i>Noted.</i>
<b>(vii)</b>	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 Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	<i>Fly ash will be used for bricks and for cementing purpose.</i>
<b>(viii)</b>	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 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.	<i>We will use fly ash to the maximum extent. Fly ash will be used for bricks and for cementing purpose.</i>
<b>(ix)</b>	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.	<i>Noted.</i>
<b>(X)</b>	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.	<i>Noted.</i>

### **VI. Green Cover**

<b>S. No.</b>	<b>Conditions of Environmental Clearance</b>	<b>Status of Compliance</b>
<b>1.</b>	No tree can be felled/ transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and	<i>The land to be developed for the project is a vacant land. No trees or plants have been cut. During project development 33% of land will be developed for landscaping as per the proposed plan.</i>

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	age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	
2.	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.	<i>We have submitted the plan for biodiversity conservation. A total of 570 lacks rupees have been allotted for corporate environment responsibility.</i>
3.	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. pl ting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for greenbelt development shall be provided as per the details provided in the project document.	<i>Prior permission will be obtained as and when required. Adequate green area will be developed at the project site.</i>
4.	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.	<i>We will comply with the condition.</i>

### VII. Transport

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	A comprehensive mobility plan as per MoUD best practiced guidelines (URDPFI) shall be prepared to include motorized, non- motorized, public and private networks. Road should deigned 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. c. Proper design of entry and exit point. d.Parking norms as per local regulation.	<i>Noted and Agreed.</i>
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.	<i>Vehicles without PUC Certificate will not be allowed to enter the project site during the construction and operational phase.</i>
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 0kms 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./	<i>The traffic management plan has already been submitted to the authority and the project will also be developed on the basis of same.</i>

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competent authority for road augmentation and shall also have their consent to the implementation components of the plan which involve the participation of these departments.

**VIII. 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.	<i>Dust mask and proper protection equipment will be provided to the site workers.</i>
2.	For indoor air quality the ventilation provisions as per National Building Code of India.	<i>Noted.</i>
3.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<i>Noted.</i>
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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<i>Will be complied.</i>
5.	Occupational health surveillance of the workers shall be done on a regular basis.	<i>Regular health surveillance of site workers will be done on regular basis.</i>
6.	A First Aid Room shall be provided in the project both during construction and operations of the project.	<i>First aid room will be provided for the construction workers as per the requirement.</i>

**IX. Corporate Environment Responsibility**

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	The project proponent shall comply with the provisions of CER, as applicable.	<i>Noted and same will be complied.</i>
2.	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 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 shareholders/ 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	<i>Noted.</i>
3.	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.	<i>Noted. Separate environmental cell will be set up at project site and the head office.</i>

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4.	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/SEIAA along with the Six Monthly Compliance Report.	<i>Will be complied.</i>
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**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.	<i>Noted and complied</i>
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 turn has to display the same for 30 days from the date of receipt.	<i>Noted and agreed.</i>
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.	<i>We will upload the status of compliance with monitoring data on our website on regular basis.</i>
4.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at Environment Clearance Portal.	<i>Agreed and the same will be complied.</i>
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 company.	<i>Environmental statement will be submitted on regular basis once the project comes in operational phase.</i>
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.	<i>Noted and same will be complied.</i>
7.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<i>We will abide the stipulations made by the authorities.</i>
8.	The project proponent shall abide by all the commitments and recommendation made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	<i>Noted and agreed.</i>
9.	No further expansion or modifications in the plan shall be carried out without prior approval of the Ministry of	<i>Fresh EC will be obtained without any change in plan of the project area.</i>



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	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.	
10.	Any change in planning of the approved plan will leads to environment. Clearance void-ab-intio and PP will have to seek fresh environment. Clearance	<i>Agreed &amp; Noted</i>
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.	<i>Noted and complied.</i>
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.	<i>Noted.</i>
13.	The Ministry/ SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<i>Noted and agreed.</i>
14.	The Ministry/ SEIAA reserve the right to stipulated additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	<i>Noted.</i>
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 report.	<i>Agreed &amp; Noted</i>
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 Waste: (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1981 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any and any others Courts of Law relating to the subject matter.	<i>Noted.</i>
17.	The validity of this environment clearance letter is valid up to 7 years from the date of issuance of EC letter. The environment clearance conditions applicable till life space project will continue to apply. In case of violation the action would be taken as per the laid down law of land. Compliance report should be sent to this office till life of the project	<i>Noted.</i>
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 i.e. 7 years	<i>Noted.</i>
19.	The Project Proponent should intimate to the Authority as well as to the quarter concerned in case of any change in the present communication address.	<i>Noted.</i>

# 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; one being nears the Cluster Area, Second is Steel Yard & Last Office Area of the project. 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 Code	Location Name/ Description
1	AAQ-1	Main Gate
2.	AAQ-2	Centre of the Project
3.	AAQ-3	Back Side Area

#### **AAQ-1: Main Gate**

The sampler was placed Main Gate. Vicinity represents residential environmental setting.

#### **AAQ-2: Steel Yard**

The sampler was placed within centre of the project. Vicinity represents residential environmental setting

#### **AAQ-3: Back side Area**

The sampler was placed within Back side Area of the project. Vicinity represents residential environmental setting.

#### 3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter (PM<sub>2.5</sub>)
- Particulate Matter (PM<sub>10</sub>)
- Sulphur Dioxide (SO<sub>2</sub>)
- Oxides of Nitrogen (NO<sub>x</sub>)
- Carbon Monoxide (CO)

The duration of sampling of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> was 24 hourly continuous sampling per day and CO was sampled for 8 hours continuous, thrice in 24 hour duration monitoring. The

monitoring was conducted for one day at each location. This is to allow a comparison with the National Ambient Air Quality Standards.

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<sub>2.5</sub> i.e. <2.5 microns), and Respirable Dust Sampler was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO<sub>2</sub>, and NO<sub>x</sub>. 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 2.5	Fine Particulate Sampler, Gravimetric Method	#SOP No. VEL/SOP/01, Section No. SP 63
2	Particulate Matter 10	Respirable Dust Sampler, with cyclone separator, Gravimetric Method	IS-5182 (Part-23)
3	Sulphur dioxide	Modified West and Gaeke	IS-5182 (Part- II)
4	Oxides of Nitrogen	Jacob & Hochheiser	IS-5182 (Part-VI)
5	Carbon Monoxide	Gas Chromatography	IS-5182 (Part-X)

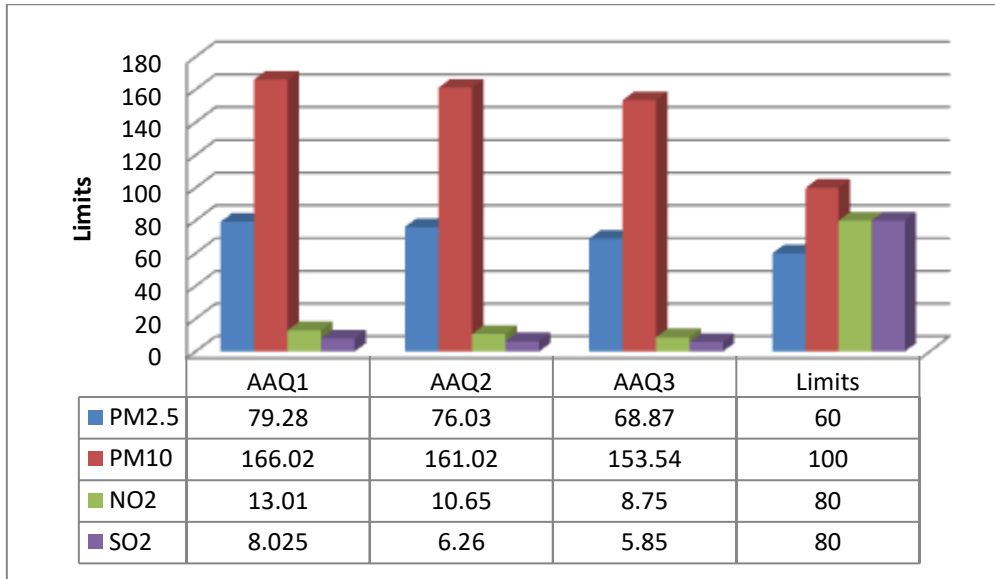
### 3.1.3 Ambient Air Quality Monitoring Results

The detailed on-site monitoring results of PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> and CO are presented in **Table 3.3**.

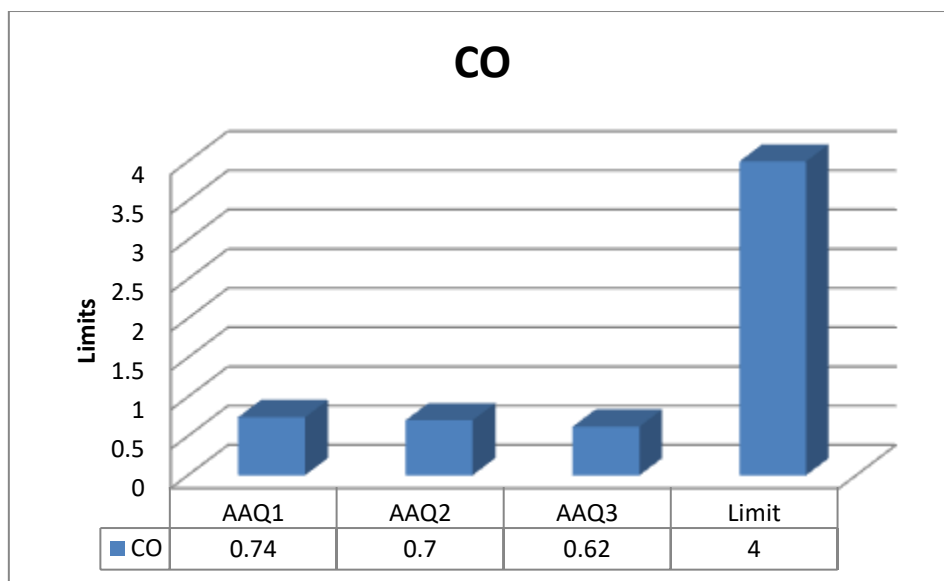
**Table 3.3 Ambient Air Quality Monitoring Results**

PARAMETERS	AAQ3	AAQ2	AAQ1	NAAQS*
Particulate Matter(PM <sub>2.5</sub> )	79.28	76.03	68.87	60
Particulate Matter (PM <sub>10</sub> )	166.02	161.02	153.54	100
Nitrogen Dioxide(NO <sub>2</sub> )	13.01	10.65	8.75	80
Sulphur Dioxide(SO <sub>2</sub> )	8.025	06.26	5.85	80
Carbon Monoxide(CO)	0.74	0.70	0.62	4

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



**Figure 3.1 Location-wise Variation of Ambient Air Quality**



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

**3.1.4 Discussion on Ambient Air Quality in the Study Area**

PM<sub>10</sub> and PM<sub>2.5</sub> levels at the project site are within the permissible limit of 100 µg/m<sup>3</sup> and 60 µg/m<sup>3</sup> respectively (for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards). SO<sub>2</sub>, NO<sub>x</sub> and CO was observed within the corresponding stipulated limits (Limit for SO<sub>2</sub> and NO<sub>x</sub>: 80 µg/m<sup>3</sup> and limit for CO: 4.0µg/m<sup>3</sup>) at all monitoring locations. Station wise variation of ambient air quality parameters has been pictorially shown in **Figure 3.1 & 3.2**.



### 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 in near main gate 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 3 location at the boundary of the project site as given in **Table 3.4**.

**Table 3.4 Details of Ambient Noise Monitoring Stations**

Sr. No.	Location Code	Location Name	Description
1.	N1	Main Gate	Residential
2.	N2	Centre of the Project	Residential
3.	N3	Back Side Area	Residential

#### 3.2.2 Methodology of Noise Monitoring

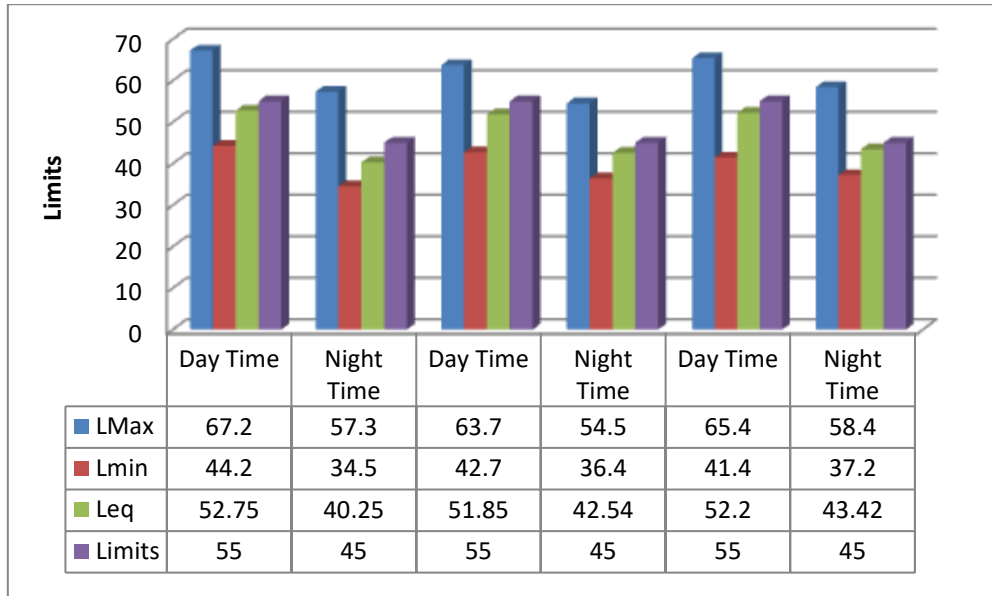
Noise levels were measured using sound level meter. Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 06:00 hrs to 06:00 hrs next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument 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 3.3**.

**Table 3.5 Ambient Noise Monitoring Results**

	Location Code					
	N1		N2		N3	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
<b>L<sub>max</sub></b>	67.2	57.3	63.7	54.5	65.4	58.4
<b>L<sub>min</sub></b>	44.2	34.5	42.7	36.4	41.4	37.2
<b>Leq</b>	52.75	40.25	51.85	42.54	52.2	43.42
<b>CPCB Limits in dB(A) Leq (Residential Area)</b>	55.00	45.00	55.00	45.00	55.00	45.00



**Figure 3.3 Location-wise Variation of Ambient Noise Levels**

### 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 DG Noise Monitoring**

**Table 3.6 Details of DG Noise Monitoring Stations**

S. No.	Location	Capacity
1.	DG Set Area	DG Set No.1 125 KVA

**Table 3.7 DG Noise Monitoring Results**

S. No.	Parameters	Protocol	Open the canopy of DG Set Results dB(A)	Close the canopy of DG Set Result Db(A) (0.5 M Distance )	Insertion Loss
1.	$L_{eq}$	IS:4758:2017	96.3	70.9	25.4
2.	CPCB Limit in dB(*A) $L_{eq}$	-	---	75.00	25.00

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

**3.4 Stack Emission Air Monitoring**

**Table 3.9 Details of Stack Emission Monitoring Stations**

S. No.	Location Code	Location Name/ Description
1.	DG1	D.G. Set Area - 125 KVA

**Table 3.10 Stack Emission Monitoring Results**

**Location- DG-1**

S. No.	Test Parameters	Test Method	Results	Units	Limits as Per CPCB
1.	Particulate Matter (as PM)	IS 11255 (P-1), Gravimetric Method	0.072	gm/kw-hr	<0.2
2.	Oxide of Nitrogen (as NO <sub>x</sub> )	IS 11255 (P-7)	1.09	gm/kw-hr	<4.0
3.	Total Hydrocarbon (as HC)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	0.60	gm/kw-hr	
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.- 01,01/11/21	0.48	gm/kw-hr	<3.5

Note: \* STP-Standard Testing Procedure.



### 3.5 WATER QUALITY MONITORING

#### 3.5.1 Water Quality Monitoring Locations

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

Water sample was collected from the Tank Installed at the project site form the construction and drinking purpose. The sample was analyzed for various parameters to compare with the standards for ground water as per IS: 10500 for ground water sources. The details of water sampling locations are given in **Table 3.12**.

**Table3.12 Details of Water Quality Monitoring Station**

S. No.	Location Code	Location Description
1.	Drinking Water	Near Project Site

#### 3.5.2 Methodology of water Quality Monitoring

Sampling of water was carried out on **March 2023**.. 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 HNO<sub>3</sub>. 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 water are given in **Table 3.13, 3.14**.

### 3.5.3 Water Quality Results

The detailed water quality monitoring results are presented in **Table 3.13, 3.14**

**Table 3.13 Water Quality Monitoring Results**

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)	IS3025 (P-11)	7.14	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	84.00	mg/l	200	600
7.	Calcium as Ca	IS3025 (P-40)	12.76	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	70.68	mg/l	200	600
9.	Chloride as Cl	IS 3025 (P-32)	13.19	mg/l	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	IS3025 (P-46)	10.71	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	105.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	5.82	mg/l	200	400
14.	Fluoride as F	IS 3025 (P-60)	BLQ(LOQ-0.2)	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	BLQ(LOQ-1.0)	mg/l	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	1.0	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium	VEL/STP/ICP/W-01, Issue No.-	BLQ(LOQ-0.01)	mg/l	0.05	No

**Environmental Clearance for Expansion of Independent Floors "The Grove" at Block B, Sector 54, DLF  
5, Gurugram, Haryana by M/s DLF Limited & Others  
EC No. SEIAA/HR/2021/490 Dated-29/01/2022**

	as Cr	01, 01/11/21				Relaxation
20.	#Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
22.	Anionic Detergents as MBAS	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.3	1.0
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.01)	mg/l	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.- 01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	APHA 9221 B	<1.8	MPN/100ml	--	
32.	E. Coli	APHA 9221 F	<1.8	MPN/100ml	--	

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

### 3.5.4 Discussion on Drinking Water Quality in the Study Area

The water quality in the project area is observed to be alkaline in nature with total alkalinity reaching up to 70.68 mg/L at project against desirable limit of 200 mg/l. Total dissolved solids in the water is 105.00 mg/L at project site against prescribed limit of 500 mg/L. However, remaining parameters are within the CPCB prescribed limits.

### 3.4 SOIL MONITORING

#### 3.4.1 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 3.15**.

**Table 3.15 Details of Soil Quality Monitoring Location**

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

#### 3.4.2 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 soil samples were collected in the month of **March 2023**.

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.



### 3.4.3 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 3.9**.

**Table 3.9 Physico-Chemical Characteristics of Soil in the Study Area**

S. No.	Parameter	Test-Meth od	Result	Unit
1.	<b>pH (at 25 °C)</b>	IS : 2720 (P-26)	7.52	--
2.	<b>Conductivity</b>	IS:14767	0.246	mS/cm
3.	<b>Soil Texture</b>	VEL/STP/EN/64, Issue No.- 01, 01/11/2021	Sandy Loam	--
4.	<b>Color</b>	VEL/STP/EN/67, Issue No.- 01, 01/11/2021	Yellowish Brown	--
5.	<b>Water holding capacity</b>	VEL/STP/EN/86, Issue No.- 01, 01/11/2021	33.69	%
6.	<b>Bulk density</b>	VEL/STP/EN/59, Issue No.- 01, 01/11/2021	1.55	gm/cc
7.	<b>Chloride</b>	VEL/STP/EN/69, Issue No.- 01, 01/11/2021	21.42	mg/100gm
8.	<b>Calcium</b>	VEL/STP/EN/72, Issue No.- 01, 01/11/2021	21.43	mg/100gm
9.	<b>Sodium</b>	VEL/STP/EN/62, Issue No.- 01, 01/11/2021	32.12	mg/kg
10	<b>Potassium</b>	VEL/STP/EN/61, Issue No.- 01, 01/11/2021	125.21	kg/ha.
11	<b>Organic Matter</b>	IS 2720 (P-22), Titrimetric Method	0.32	%
12	<b>Magnesium</b>	VEL/STP/EN/72, Issue No. 01, 01/11/2021	8.50	mg/100gm
13	<b>Available Nitrogen</b>	IS:14684 Distillation Method	124.18	kg./ha.
14	<b>Available Phosphorus</b>	VEL/STP/EN/73, Issue No.- 01, 01/11/2021	10.35	kg./ha.
15	<b>Zinc</b>	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.77	mg/kg
16	<b>Manganese</b>	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	1.14	mg/kg
17	<b>Lead</b>	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.44	mg/kg
18	<b>Cadmium</b>	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	BLQ(LOQ - 0.5)	mg/kg
19	<b>Chromium</b>	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.52	mg/kg
20	<b>Copper</b>	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.75	mg/kg

\*SOP-Laboratory standard operating procedure. Chromium- this parameter is not covered our nabl scope.

### 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.

3.7. Site Photograph



Environmental Clearance for Expansion of Independent Floors "The Grove" at Block B, Sector 54, DLF  
5, Gurugram, Haryana by M/s DLF Limited & Others  
EC No. SEIAA/HR/2021/490 Dated-29/01/2022



Emaar The Palm Spring Plaza Tower-7,  
Emaar The Palm Spring Plaza, DLF Phase 5,  
Sector 54, Gurugram, Haryana 122002, India  
Latitude 28.444129° Longitude 77.103169°  
LOCAL 03:04 PM TUESDAY 28.03.2023  
GMT 09:34 AM ALTITUDE 223 METER



B -11/5, Basement, Park Dr, DLF Phase 5,  
Sector 54, Gurugram, Haryana 122002, India  
Latitude 28.444593° Longitude 77.104901°  
LOCAL 03:16 PM TUESDAY 28.03.2023  
GMT 09:46 AM ALTITUDE 222 METER





# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/AA/01 **Report No.:** VEL/AA/2303/29/001  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of Party:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Reporting Date:** 04/04/2023  
**Period of Analysis:** 29/03/2023 to 04/04/2023  
**Receipt Date:** 29/03/2023  
**Sample Description :** AMBIENT AIR QUALITY MONITORING

### General Information:-

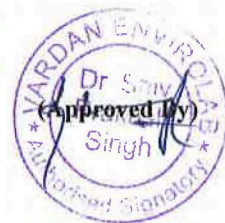
**Sample collected by :** Vardan Enviro Lab Representative  
**Sampling Location :** Main Gate  
**Instrument Used :** RDS and FPS  
**Instrument Code :** VEL/RDS/FPS/05  
**Instrument Calibration Status :** Calibrated  
**Meteorological condition during monitoring :** Clear Sky  
**Date of Monitoring :** 28/03/2023-29/03/2023  
**Time of Monitoring :** 11:40 AM to 11:40 AM  
**Ambient Temperature (°C) :** Min. 24.0°C, Max. 34.0°C  
**Surrounding Activity :** Human & Vehicular Activities  
**Scope of Monitoring :** Regulatory Requirement  
**Control measure if Any :** IS: 5182 and CPCB Guidelines  
**Sampling & Analysis Protocol :** As per Work Order

## TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter	IS 5182 (P-24 ), Gravimetric Method	79.28	µg/m <sup>3</sup>	60
2.	Particulate Matter	IS 5182 (P-23 ), Gravimetric Method	166.02	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (P-6), Jacob & Hochheiser	13.01	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (P-2), Modified West and Geake	8.025	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.74	mg/m <sup>3</sup>	4

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

\*Limit of CO for one hour monitoring.





# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/AA/02 **Report No.:** VEL/AA/2303/29/003  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of Party:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Reporting Date:** 04/04/2023  
**Period of Analysis:** 29/03/2023 to 04/04/2023  
**Receipt Date:** 29/03/2023  
**Sample Description :** AMBIENT AIR QUALITY MONITORING

### General Information:-

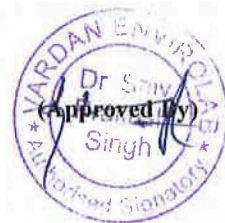
Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Centre of Project  
Instrument Used : RDS and FPS  
Instrument Code : VEL/RDS/FPS/06  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/03/2023-29/03/2023  
Time of Monitoring : 11:50 AM to 11:50 AM  
Ambient Temperature (°C) : Min. 24.0°C, Max. 34.0°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS: 5182 and CPCB Guidelines  
Parameter Required : As per Work Order

### TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter	IS 5182 (P-24 ), Gravimetric Method	76.03	µg/m <sup>3</sup>	60
2.	Particulate Matter	IS 5182 (P-23 ), Gravimetric Method	161.02	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (P-6), Jacob & Hochheiser	10.65	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (P-2), Modified West and Geake	06.26	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.70	mg/m <sup>3</sup>	4

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

\*Limit of CO for one hour monitoring.







# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/AA/03 **Report No.:** VEL/AA/2303/29/003  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of Party:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Reporting Date:** 04/04/2023  
**Period of Analysis:** 29/03/2023 to 04/04/2023  
**Receipt Date:** 29/03/2023  
**Sample Description :** AMBIENT AIR QUALITY MONITORING

### General Information:-

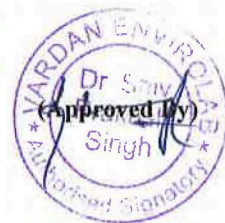
Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Back Side of Project  
Instrument Used : RDS and FPS  
Instrument Code : VEL/RDS/FPS/07  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 27/03/2023-28/03/2023  
Time of Monitoring : 12:00 PM to 12:00 PM  
Ambient Temperature (°C) : Min. 24.0°C, Max. 34.0°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS: 5182 and CPCB Guidelines  
Parameter Required : As per Work Order

### TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter	IS 5182 (P-24 ), Gravimetric Method	68.87	µg/m <sup>3</sup>	60
2.	Particulate Matter	IS 5182 (P-23 ), Gravimetric Method	153.54	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (P-6), Jacob & Hochheiser	8.75	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (P-2), Modified West and Geake	5.85	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.62	mg/m <sup>3</sup>	4

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

\*Limit of CO for one hour monitoring.





## Test Report

**Sample Number:** VEL/DLF/AA/01 **Report No.:** VEL/AA/2303/29/001  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of Party:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Reporting Date:** 04/04/2023  
**Receipt Date:** 29/03/2023

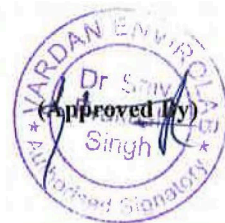
**Sample Description :** AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Near Main Gate  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/SLM/08  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/03/2023-29/03/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No any  
Sampling & Analysis Protocol : CPCB Guidelines & IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : As per Client Requirement

S. No.	Parameters	Test Method	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L <sub>max</sub>	IS -9989	67.2	57.3	dB(A)
2.	L <sub>min</sub>	IS- 9989	44.2	34.5	dB(A)
3.	L <sub>eq</sub>	IS -9989	52.75	40.25	dB(A)
4.	<b>CPCB Limits in dB(*A) Leq (Commercial Area)</b>	-	<b>55.0</b>	<b>45.0</b>	dB(A)

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





# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/AA/02 **Report No.:** VEL/AA/2303/29/002  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of Party:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Reporting Date:** 04/04/2023  
**Receipt Date:** 29/03/2023

**Sample Description :** AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Centre of the project  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/SLM/09  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/03/2023-29/03/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min. 24.0°C, Max. 34.0°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No any  
Sampling & Analysis Protocol : CPCB Guidelines & IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : As per Client Requirement

S. No.	Parameters	Test Method	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L <sub>max</sub>	IS- 9989	63.7	54.5	dB(A)
2.	L <sub>min</sub>	IS- 9989	42.7	36.4	dB(A)
3.	L <sub>eq</sub>	IS -9989	51.85	42.54	dB(A)
4.	<b>CPCB Limits in dB(*A) Leq (Commercial Area)</b>	-	<b>55.0</b>	<b>45.0</b>	dB(A)

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





# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/AN/02 **Report No.:** VEL/AN/2303/29/003  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of Party:** **Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana** **Reporting Date:** 04/04/2023  
**Receipt Date:** 29/03/2023

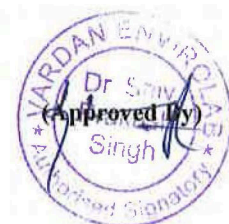
**Sample Description :** AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Back Side of the Project  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/SLM/10  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 28/03/2023-29/03/2023  
Time of Monitoring : 06:00 AM to 06:00 AM  
Ambient Temperature (°C) : Min. 24.0°C, Max. 34.0°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No any  
Sampling & Analysis Protocol : CPCB Guidelines & IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : As per Client Requirement

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L <sub>max</sub>	IS -9989	65.4	58.4	dB(A)
2.	L <sub>min</sub>	IS -9989	41.4	37.2	dB(A)
3.	L <sub>eq</sub>	IS- 9989	52.2	43.42	dB(A)
4.	<b>CPCB Limits in dB(*A) Leq (Commercial Area)</b>	-	<b>55.0</b>	<b>45.0</b>	dB(A)

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







# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/ST/01 **Report No.:** VEL/ST/2303/29/001  
**Issued To:** M/S DLF Limited & Others. **Format No.:** 7.8 F-01  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Reporting Date:** 04/04/2023  
**Name & Address of the Project:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Period of Analysis:** 29/03/2023 to 04/04/2023  
**Receipt Date:** 29/03/2023

**Sample Description:** Stack Emission Monitoring

### General Information:-

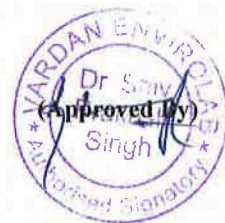
**Sample collected by** : Vardan EnviroLab Representative  
**Sampling Date with Time** : 28/03/2023  
**Sampling Location** : DG Set Area  
**Sampling Duration (Minutes)** : 38.0  
**Stack Attached to** : D.G Set No. 1 - 125 KVA  
**Stack Height (From Ground Level)** : 4.57 meter  
**Stack Diameter** : 0.0762meter  
**Metrological Condition** : Clear Sky  
**Instrument Calibration Status** : Ok  
**Ambient Temperature-Ta (°C)** : 28.0  
**Temperature of Stack Gases-Ts (°C)** : 138.0  
**Velocity of Stack Gases (m/sec.)** : 7.12  
**Flow rate of PM (LPM)** : 22.0  
**Flow rate of Gas (LPM)** : 2.0  
**Sampling Condition** : Isokinetic  
**Protocol Used** : IS :11255

### TEST RESULTS

S. No.	Test Parameters	Test Method	Results	Units	Limits as Per CPCB
1.	Particulate Matter (as PM)	IS 11255 (P-1), Gravimetric Method	0.072	gm/kw-hr	<0.2
2.	Oxide of Nitrogen (as NO <sub>x</sub> )	IS 11255 (P-7)	1.09	gm/kw-hr	<4.0
3.	Total Hydrocarbon (as HC)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.60	gm/kw-hr	
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.48	gm/kw-hr	<3.5

Note: \* STP-Standard Testing Procedure.

\*\*\*End of Report\*\*\*







# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/DLF/PN/01 **Report No.:** VEL/PN/2304/29/001  
**Issued to:** M/S DLF Limited & Others. **Format No.:** 7.8 F-03  
**1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)** **Party Reference No.:** NIL  
**Name & Address of the Project:** Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana **Reporting Date:** 04/04/2023  
**Sample Description:** DG Set Noise Monitoring **Receipt Date:** 29/03/2023

### General Information:-

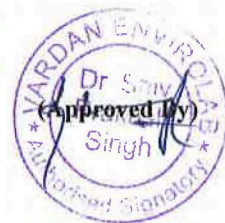
**Sample Collected by** : Vardan EnviroLab Representative  
**Sampling Location** : **DG Set Area**  
**Instrument Used** : Sound Level Meter  
**Instrument Code** : VEL/SLM/10  
**Instrument Calibration Status** : Calibrated  
**Meteorological Condition during monitoring** : Clear Sky  
**Date of Monitoring** : **28/04/2023**  
**Time of Monitoring** : **11:30 AM to 12:00 PM**  
**Sampling Duration (Minutes)** : 30 Minutes  
**Surrounding Activity** : DG Set Running Activity  
**Scope of Monitoring** : Regulatory Requirement  
**Control Measure if any** : Acoustics  
**Sampling & Analysis Protocol** : IS-4758:2017  
**Parameter Required** : As per Work Order

### TEST RESULTS

S. No.	Parameter	Test Method	Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 meter Distance) Result dB(A)	Insertion Loss
1.	L <sub>eq</sub>	IS-4758:2017	96.3	70.9	25.4
2.	CPCB Limit in Leq dB(A)	--	--	<b>75.00</b>	<b>Min. 25.0</b>

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

\*\*\*End of Report\*\*\*





# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

<b>Sample Number:</b>	VEL/DLF/W/01	<b>Report No.:</b>	VEL/W/2303/29/0001
<b>Issued to:</b>	M/S DLF Limited & Others. 1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)	<b>Format No.:</b>	7.8 F-03
<b>Name &amp; Address of Project</b>	Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana	<b>Party Reference No.:</b>	NIL
<b>Sample Description:</b>	Drinking Water (R.O.)	<b>Reporting Date:</b>	04/04/2023
<b>Sampling Location:</b>	Water Cooler	<b>Period of Analysis:</b>	29/09/2022-04/04/2023
<b>Sample Collected by</b>	Vardan Enviro Lab Representative	<b>Receipt Date:</b>	29/03/2023
<b>Sampling &amp; Analysis Protocol:</b>	IS:3025 & APHA 23rd Edt.2017	<b>Sampling Date:</b>	29/03/2023
		<b>Type of Sampling:</b>	Grab
		<b>Sampling Quantity:</b>	5.0 Ltr. + 250ml
		<b>Preservation:</b>	Icebox

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)	IS3025 (P-11)	7.14	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	IS3025 (P-21)	84.00	mg/l	200	600
7.	Calcium as Ca	IS3025 (P-40)	12.76	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	IS3025 (P-23)	70.68	mg/l	200	600
9.	Chloride as Cl	IS 3025 (P-32)	13.19	mg/l	250	1000
10.	Cyanide as CN	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	IS3025 (P-46)	10.71	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	105.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	IS3025 (P-24)	5.82	mg/l	200	400
14.	Fluoride as F	IS 3025 (P-60)	BLQ(LOQ-0.2)	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS3025 (P-34)	BLQ(LOQ-1.0)	mg/l	45	No Relaxation
16.	Iron as Fe	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	1.0	No relaxation
17.	Aluminium as Al	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium as Cr	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.05	No Relaxation





## Test Report

Sample No.: VEL/DLF/W/01			Report No: VEL/W/2303/29/0001			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
20.	#Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
22.	Anionic Detergents as MBAS	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.3	1.0
23.	Zinc as Zn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	5	15
24.	Copper as Cu	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.05	1.5
25.	Manganese as Mn	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
26.	Cadmium as Cd	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead as Pb	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Selenium as Se	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
29.	Arsenic as As	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	APHA 9221 B	<1.8	MPN/100ml		--
32.	E. Coli	APHA 9221 F	<1.8	MPN/100ml		--

Note:-# These parameters are not under NABL Scope.

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







# Vardan EnviroLab

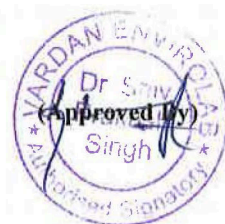
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)  
ISO 9001 | ISO 14001 | ISO 45001

## Test Report

<b>Sample Number:</b>	VEL/DLF/S0/01	<b>Report No.:</b>	VEL/S/2303/29/001
<b>Issued to:</b>	M/S DLF Limited & Others. 1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram.(122002)	<b>Format No.:</b>	7.8 F-03
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	04/04/2023
<b>Project Name:</b>	Independent Floors "The Grove" at Block B, Sector 54, DLF-5, Gurugram, Haryana.	<b>Period of Analysis:</b>	29/03/2023-04/04/2023
		<b>Receipt Date:</b>	29/03/2023
<b>Sample Description:</b>	SOIL Sample	<b>Sampling Date:</b>	29/03/2023
<b>Sample Location:</b>	Project Site	<b>Sampling Quantity:</b>	2.0 Kg
<b>Sample Collected by:</b>	Vardan Environ Lab Representative	<b>Sampling Type:</b>	Composite
<b>Sampling and Analysis Protocol:</b>	IS 2720 & STP	<b>Packing Status:</b>	Temp Sealed
<b>Parameter Required:</b>	As per work order		

S. No.	Parameter	Test-Meth od	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26)	7.52	--
2.	Conductivity	IS:14767	0.246	mS/cm
3.	Soil Texture	VEL/STP/EN/64, Issue No.- 01, 01/11/2021	Sandy Loam	--
4.	Color	VEL/STP/EN/67, Issue No.- 01, 01/11/2021	Yellowish Brown	--
5.	Water holding capacity	VEL/STP/EN/86, Issue No.- 01, 01/11/2021	33.69	%
6.	Bulk density	VEL/STP/EN/59, Issue No.- 01, 01/11/2021	1.55	gm/cc
7.	Chloride	VEL/STP/EN/69, Issue No.- 01, 01/11/2021	21.42	mg/100gm
8.	Calcium	VEL/STP/EN/72, Issue No.- 01, 01/11/2021	21.43	mg/100gm
9.	Sodium	VEL/STP/EN/62, Issue No.- 01, 01/11/2021	32.12	mg/kg
10.	Potassium	VEL/STP/EN/61, Issue No.- 01, 01/11/2021	125.21	kg/ha.
11.	Organic Matter	IS 2720 (P-22), Titrimetric Method	0.32	%
12.	Magnesium	VEL/STP/EN/72, Issue No. 01, 01/11/2021	8.50	mg/100gm
13.	Available Nitrogen	IS:14684 Distillation Method	124.18	kg./ha.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.- 01, 01/11/2021	10.35	kg./ha.
15.	Zinc	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.77	mg/kg
16.	Manganese	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	1.14	mg/kg
17.	Lead	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.44	mg/kg
18.	Cadmium	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	BLQ(LOQ – 0.5)	mg/kg
19.	Chromium	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.52	mg/kg
20.	Copper	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.75	mg/kg

Note: BLQ: Below Limit of Quantification, LOQ: Limit of Quantification



[www.vardan.co.in](http://www.vardan.co.in)

Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: [lab@vardan.co.in](mailto:lab@vardan.co.in), [bd@vardan.co.in](mailto:bd@vardan.co.in)



# HARYANA STATE POLLUTION CONTROL BOARD

HSPCB Gurgaon North Vikas Sadan, 1st Floor, Near DC Court,

Gurgaon Ph.0124-2332775 Email:-

hspcbrogrn@gmail.com

Website: www.hrocmms.nic.in E-Mail - hspcbho@gmail.com

Telephone No.: 0172-2577870-73



No. HSPCB/Consent/ : 329962321GUNOCTE18481049

Dated:23/12/2021

To.

M/s : Proposed Independent Floors The Grove at Block B Sector 54 DLF5 Gurugram  
Haryana by DLF Limited and others  
Block B Sector 54 DLF5 Gurugram  
GURGAON  
122002

**Sub. : Grant of consent to Establish to M/s Proposed Independent Floors  
The Grove at Block B Sector 54 DLF5 Gurugram Haryana by DLF Limited  
and others**

Please refer to your application no. 18481049 received on dated 2021-12-02 in regional office Gurgaon North.

With reference to your above application for consent to establish, M/s Proposed Independent Floors The Grove at Block B Sector 54 DLF5 Gurugram Haryana by DLF Limited and others is here by granted consent as per following specification/Terms and conditions.

<b>Consent Under</b>	AIR/WATER
<b>Period of consent</b>	23/12/2021 - 23/11/2028
<b>Industry Type</b>	Building and Construction projects having waste water generation more than 100 KLD in respective of their built-up area
<b>Category</b>	RED
<b>Investment(In Lakh)</b>	33755.172
<b>Total Land Area (Sq. meter)</b>	10951.01
<b>Total Builtup Area (Sq. meter)</b>	51157.15
<b>Quantity of effluent</b>	
1. Trade	0.0 KL/Day
2. Domestic	80.0 KL/Day
<b>Number of outlets</b>	1.0
<b>Mode of discharge</b>	
1. Domestic	Reuse/Recycle
2. Trade	0
<b>Permissible Domestic Effluent Parameters</b>	
1. BOD	10 mg/l

2. COD	50 mg/l
3. TSS	20 mg/l
4. O&G	10 mg/l
5. Total Nitrogen	10 mg/l
6. Faecal Coliform (MPN/100 ml)	Less than 100
7. Total Phosphorus	1 mg/l
8. pH	5.5-9.0
<b>Permissible Trade Effluent Parameters</b>	
1. NA	mg/l
Number of stacks	3
<b>Height of stack</b>	
1. Stack to DG set 500 KVA	6 Meter (Above roof level)
2. Stack to DG set 500 KVA	6 Meter (Above roof level)
3. Stack to DG set 500 KVA	6 Meter (Above roof level)
<b>Permissible Emission parameters</b>	
1. NA	
<b>Capacity of boiler</b>	
1. NA	Ton/hr
<b>Type of Furnace</b>	
1. NA	
<b>Type of Fuel</b>	
1. Diesel	1.350 KL/day

**Regional Officer, Gurgaon North**  
Haryana State Pollution Control Board.

### Terms and conditions

1. The industry has declared that the quantity of effluent shall be 80 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 80 KL/Day for Domestic and the same should not exceed .
2. The above 'Consent to Establish' is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.
3. The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable
4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.

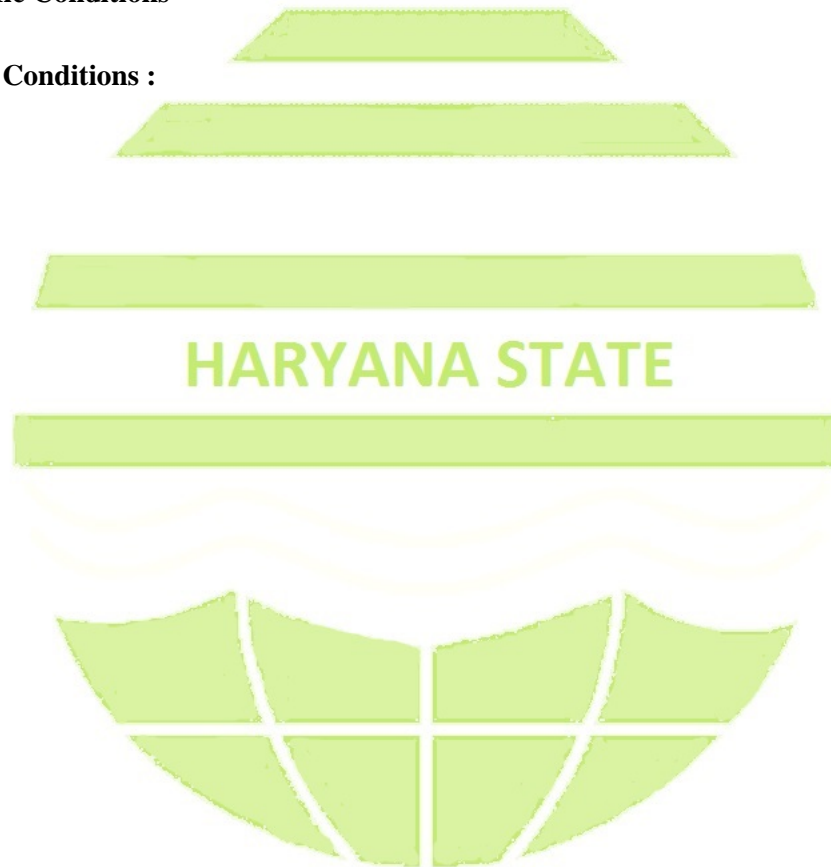


5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act, 1981 as amended to-date-even before starting trial production
6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.
7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience
8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.
9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.
10. Unit will maintain proper logbook of Water meter/sub meter before/after commissioning.
11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.
12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.
13. That the industry or the unit concerned is not sited within any prohibited distances according to the Environmental Laws and Rules, Notification, Orders and Policies of Central Pollution control Board and Haryana State Pollution Control Board.
14. That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.
15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.
16. That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.
17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.
18. Industry should adopt water conservation measures to ensure minimum consumption of water in their Process. Ground water based proposals of new industries should get clearance from Central Ground Water Authority for scientific development of previous resource.
19. That the unit will take all other clearances from concerned agencies, whenever required.
20. That the unit will not change its process without the prior permission of the Board.
21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.

22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-leachate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.
23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.
24. That unit will obtain EIA from MoEF, if required at any stage.
25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.
26. That unit will obtain consent to operate from the board before the start of product activity.

**Specific Conditions**

**Other Conditions :**



1. The project proponent will obtain all necessary clearances from all concerned departments. 2. Project proponent will not change the quantity of domestic effluent/trade effluent/air emission without prior permission of the Board. Project Proponent will obtain prior CTO before starting of production and apply for CTO/ CTE Extension at least 90 days before expiry date of this CTE. 3. Project Proponent will install STP/ETP/ACPM along with the main project. 4. Project Proponent will install adequate acoustic enclosures/chambers on their DG SETS with proper stack height as per prescribed norms to meet the prescribed standards under EP Rules. 5. Project Proponent will comply with the provisions of Water Act, 1974, Air Act, 1981, Solid Waste Management Rules, 2016, Hazardous & Other Waste Management Rules, 2016, Plastic Waste Management Rules, 2016, E-Waste Management Rules, 2016, Battery Managements Rules, C&D Waste Management Rules, 2016& amendments and other applicable environmental legislation. 6. Project Proponent will use only treated effluent supplied from Sewage treatment plant during construction phase of the project 7. That this CTE for will not provide any relaxation /benefit from any other Act/Rules/Regulations applicable to the project/land in question. 8. Project Proponent will not discharge any type Treated or untreated effluent outside the premises of the project. 9. Project Proponent will not use in their DG set as a fuel i.e. pet coke, furnace oil and LSHS etc. 10. Stack emission level should be stringent than the existing standards in terms of the identified critical pollutants. 11. Effective fugitive emission control measures should be imposed in the process, transportation, parking etc. 12. Encourage use of cleaner fuels (pet coke / furnace oil /LSHS may be avoided). 13. Best available technology may be used. For example usage of EAF/SAF/IF in place of Cupola Furnace, Usage of Supercritical technology in place of sub – critical technology. 14. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible. 15. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry etc. 16. Assessment of carrying capacity of transportation load on the roads inside the industrial premises. If the roads required to be widened, shall be prescribed as a condition. 17. Project Proponent will not discharge any type of effluent inside & outside of the premises of the project and reuse/recycle of treated waste water be ensured. 18. Continuous monitoring of emission and effluent quality / quantity to be installed & will connect the same with server of CPCB and HSPCB. 19. A detailed water harvesting plan may be submitted by the project proponent. 20. Project Proponent will achieve zero discharge and install latest technology of STP/ETP and reuse/recycle of treated effluent. 21. In case, domestic waste water generation is more than 10 KLD, the industry may install STP. 22. Dumping of waste (fly ash, slag, red mud etc.) may be permitted only at designated locations approved by SPCBs/PCCs. 23. More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-processing. 24. Monitoring of compliance of EC conditions may be submitted with third party audit every year. 25. Project Proponent will dispose off their waste/spent oil of DG sets only to authorize recyclers by the HSPCB. 26. The % of the CER may be least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance. 27. Project proponent will comply all the directions of CPCB in this regard and will comply all the orders issued by any court in this regard. 28. Project Proponent will submit an affidavit regarding compliance of above said conditions within 30 days. 29. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly. 30. Unit will deploy anti –smog guns at site to comply with the above said directions & keep proper record of operation of the same and submit action taken report to this office within 03 days positively, failing which action shall be initiated as per applicable Acts/ Rules /Notifications. 31. Project proponent will comply with all the conditions mentioned in Environmental Clearance granted vide letter dated 24.11.2021 and submit the compliance of the same within 90 days to this office. 32. CTE so granted is on the basis of detail submitted by the unit in online application, CTE granted will be without prejudice to any violation made by unit in past & will be deemed revoked & further action will be taken as per law if any violation is observed at any stage. 33. The Project Proponent/unit will not claim any benefits on the basis of this CTE in respect of past violation committed by them 34. Unit will not do any construction work in their project without obtaining valid renewed license from DTCP and CTE will be become null and void if unit fails to renew DTCP license. 35. This CTE is only valid for the area for which unit has obtained License /CLU issued by DTCP and Aravali clearance report from Deputy Commissioner, Gurugram. 36. At any stage, if any violation observed of any above conditions at any time, this CTE stands cancelled /revoked & further action will be taken as per Law/Acts/Notifications/Policies/Rules

*Regional Officer, Gurgaon North  
Haryana State Pollution Control Board.*



OFFICE OF THE EXECUTIVE ENGINEER, HSVP, DIV NO. III, GURUGRAM

To

M/s DLF Limited  
R/o DLF Shopping Mall, 3<sup>rd</sup> Floor,  
Arjun Marg, DLF City, Phase-I,  
Gurugram.

Memo No. 11539

Dated: 26/9/18

**Sub:- Water supply connection of 100mm dia for Under Ground Water Tank in Zone-11 & 12 of DLF-Phase- V in an area of 476.4265 acres, Gurugram.**

In this context, as per your application for water connection to above premises to connect your intake system of boosting /water works through 100mm i/d pipe line at one point mentioned in approved plan is hereby sanctioned subject to the following conditions:-

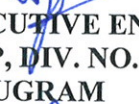
1. The connection will be given only from HSVP existing water supply line subject to availability of water in pipe line further intake and boosting arrangement will be made by the colonizer at their own expenses.
2. The connection is hereby authorized for supply of bulk water supply in UGT only and further arrangement for water supply to individual unit will be made by the colonizer at their own cost as per approved system.
3. The water bill will be raised by Sub Divisional Engineer, HSVP, Sub Div No. IX, Gurugram and firm will be whole responsible for the full payment regularly within stipulated period.
4. Installation of self recording electronic water meter and it's good performance will be the colonizer's responsibility. Total Rs 7,00,000/- (Rs 5,00,000/- as water connection security + Rs 2,00,000/- as water connection fees) has been deposited vide Demand Draft No. 510171 & 510172 dated 11.09.2018 from ICICI Bank.
5. Road cut fees will be deposited in future if required as per HSVP Bye laws.
6. The connection will be made by the colonizer at their own expenses without disturbing Master W/S system in presence of representative of HSVP Deptt. During making connection if any damage to HSVP service is occurred, the colonizer will be the whole responsible for repair of the same in good condition. If, the colonizer is failed to repair, repair shall be carried by the Deptt. and expenditure involved on this account shall be paid by the colonizer otherwise the connection shall be cancelled and disconnected.
7. Water connection should not be already made at site before issuing the permission failing which will have to pay the penalty imposed and previous bills. Otherwise, the connection will disconnected without serving any Notice.
8. The electronic water meter of reputed make shall be purchased by the colonizer at their own level and got tested from approved lab/ Institution under intimation to this Department after OK testing, the electronic water meter and it's report shall have to be submitted to the S.D.E-IX, HSVP, Gurugram for obtaining it's clearance to install at site duly sealed by the Department in the presence of representative of HSVP Deptt.
9. Installation of water meter should in direct approach and be liable to the official deputed for taking / recording reading shown by the water meter.
10. Information regarding the installation of water meter shall be given to the SDE-IX, HSVP, Gurugram in writing and installation of water meter shall be considered from the date of receipt of written information by HSVP.

S.F.E  
W/S  
JEE


11. All the amount on account of released water connection shall have to be deposited within 30 days if has not been deposited with submission of connection file failing which the sanction will be considered as cancelled.
12. The land cost, Development charges/ Mtc. charges for such colonies shall be liable as per HSVP policy as fixed and decided by HSVP time to time shall be bound for payment of the same well in time.
13. The Mtc. of intake pipes and special repair shall be the colonizer's responsibility and his own cost.
14. The water shall be given at the ground level and HSVP will not be responsible the low pressure.
15. The water connection will be utilized and limited for facilities to the land/ area in possession only.
16. For any dispute in the connection with the release of water connection, Mtc and disconnection with the said water connection, the matter shall be referred by any of the two parties to the concerned Superintending Engineer, HSVP, Circle of the area where the land/ colony is situated and his decision in the matter shall be final and legally binding on both the parties.
17. Colonizer will inform about increase / decrease of discharge if any in advance.
18. SDE will verify discharge monthly or as deemed fit for verification and water bill shall raised monthly and monthly payment shall be made by the colonizer.
19. In absence of installation of water meter, checking of actual assessment of discharge and verification of the consumption of water shall be made jointly by the representative of Deptt and colonizer based on discharge of pipes and working hours of plants as per entries recorded in log book and water bills so prepared shall be binding upon the colonizer for payment and in case of going water meter out of order, the assessment of discharge and consumption of water shall be made on the basis of average reading of water meter given during previous two months till the replacement of water meter in good performance. If, the defective water meter is not replaced within two months, the connection shall be disconnected without serving any Notice.
20. No Booster/ Suction will be installed directly on the line carrying from HSVP mains and no other connection will be made from the connection main to water storage tank and in case it is ever found, the water connection shall be disconnected without serving any Notice by SDE/ Executive Engineer concerned.
21. HSVP will at the liberty to revise the rates of water charges and colonizer will be liable to pay the revised charges as and when decided by HSVP.
22. You may also ensure that follow the guide lines of N.G.T. as per Hon'ble Supreme Court.
23. You may ensure that the connection may be connected within six months from the date of issuing of this letter. After expiry of the date, a fresh application/file for water connection will have to be submitted by the colonizer and security and water connection fees will be forfeited.

**Endst No.**

A copy of the above is forwarded to Sub Divisional Engineer, HSVP, Sub Div No. IX, Gurugram for information.

  
**EXECUTIVE ENGINEER,  
HSVP, DIV. NO. III,  
GURUGRAM**

**Dated**

  
**EXECUTIVE ENGINEER,  
HSVP, DIV NO. III,  
GURUGRAM**



21.6.07  
DHBVN DELHI

memo. No. CH-9/PC-GC-599/SU Dated 10.8.07

Subject:- Electrification scheme of Plotted area DLF city Phase-I  
Gurgaon.

Enclosed please find herewith the subject cited electrification

Scheme in quadruplicate. The detail of PUPs & their load are as under.

S.No.	Description	Area	No. of PUPs	Load of each PUP	Total Load (KW)
<u>A Plotted Area Load</u>					
(Block - B)					
	i) 420 SEM		41	30 kW	1280.000
	ii) 300 "		32	20 "	640.000
	iii) 225 "		127	16 "	2032.000
	iv) 50 "		252	6 "	1512.000
					<u>7764.000</u>

Load after D.F. 0.6 :- 3248 kW

(B) Common Area Load.

i) Street light - 10 kW	
ii) Water Supply - 24 "	f
iii) School - 505 "	
	<u>539 "</u>

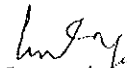
TOTAL (A+B) = 3248 + 539 = 3787 kW or 4208 kVA at 85%

T/Fs proposed :- 59 x 100 KVA

As informed by DGM/SU Divn. DHBVN Gurgaon, M/S DLF has informed that balance area of DLF Ph-II (Zone I to 12) which comprises of Group HOA multi-storied complex is still at Planning stage & shall be submitted Dept. after its finalisation by the competent authority. The load of DLF Ph-II will be fed from already approved by HVPN, 66 KV system. DLF Ph-II with capacity 2 x 20 MVA 66/11KV T/Fs at the cost of the Coloniser. The HVPN authorities have been requested to issue NOC vide T/O memo. No. CH-4/PC-GC-599/SU dated 6.6.07.

It is requested to sanction the scheme at the earliest, please.

DA/AS above

  
G.M./Sp. Circle  
DHBVN, Gurgaon



PLOTTED AREA



HVPNL

Superintendent  
System Circle

Area: Gurgaon

Office: Transmission  
Gurgaon-122001

To

Chief Engineer, Transmission  
HVPNL, Hisar

Memo No. C-1 Colonizer Dated: 17/08/07

Sub:

NOC FOR 3 877 KW WITH CD 5900KVA, TO M/S DLF LTD. FOR  
ELECTRIFICATION SCHEME OF PLOTTED AREA PHASE-V, DLF  
CITY, GURGAON

GM 'OP' DHVN Gurgaon vide memo no. Ch-4/PC-GC-599-SU dt 06/06/07 has sent the NOC for sanctioning of 3787 KW with CD-5900 KVA to M/s DLF Ltd.

Xen 'TS' Divn. HVPNL Gurgaon was asked to examine the case for technical feasibility vide memo no. CI-85/Colonizer dt 04/06/07 his office informed vide memo no. Ch-2390 dt 02/8/07 that the construction of S/Strn has not yet been finalized. Hence can not be considered at such initial stage. This office agrees with the recommendation made by Xen 'TS' Divn. HVPNL, Gurgaon.

You are requested to kindly examine the case & convey your decision at your end.

Superintending Engineer  
Trans. System Circle HVPNL, Gurgaon.

CC to:

1. CGM/Operation, I HBVN, Delhi.
2. CM/Operation, Circle, HBVN, Gurgaon
3. XEN/TS/Dyn. Gurgaon
4. DGM S/U Dyn. DHVN Gurgaon.

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**FOREST DEPARTMENT , GOVT. OF HARYANA**  
**Office Of Deputy Conservator of Forest, Gurugram**  
**Forest Complex, Sohna Road Near Distt. Court, Gurugram Ph. No. 0124-2322057**  
**Email id- dfogurgaon1@gmail.com**

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**Corrigendum**

An online clarification (SRN:- G0U-N70-YNMH) has been issued by this office on dated 30.07.2021 in favour of M/s DLF Home Developers Ltd. for 32.84 acre of land bearing Khasra No. 1965, 2079/1, 2080/1, 1966, 1967, 1968, 1970, 1969/1, 2065, 2066, 2070, 2071, 2072, 2073, 2069, 2067, 2068, 2063, 2064, 2079/2, 2080/2, 2075/2, 2076/2, 2077/2, 2075/3, 2076/3, 2077/3, 2074, 2075/1, 2076/1, 2077/1, 1985/1(73/181), 1985/1(73/181), 1985/1(35/181) at Village Wazirabad, Tehsil Wazirabad & District-Gurugram. It has been wrongfully (clerical mistake) mentioned Name of Organisation as DLF Home Developers Ltd. No amendments/rectification can be done online. Hence it may now be read as DLF Ltd. The rest of the conditions remain the same as mentioned in the online clarification.

  
Deputy Conservator of Forest  
Gurugram

Endst. No. 1945-47-07

Dated 29-09-2021

A copy is forwarded to the following:-

1. Deputy Commissioner, Gurugram w.r.t. their letter no. 3533/MB dated 25.08.2021 for kind information
2. District Town Planner, Gurugram for kind information
3. M/s DLF Ltd., DLF Gateway tower, R Block, DLF City Phase III, Gurugram -122002 for kind information.

  
Deputy Conservator of Forest  
Gurugram





प्रभागीय वन अधिकारी द्वारा स्पष्टीकरण पत्र  
Clarification letter by  
Concerned Divisional Forest Officer  
हरियाणा सरकार / Government of Haryana



गैर-वन भूमि पर वन कानून उपयुक्तता के विषय में स्पष्टीकरण पत्र।  
Clarification letter regarding applicability of forest laws on non forest land.

नाम Name	अलोक कुमार Alok Kumar
संगठन का नाम Organisation Name	Dlf Home Developers Ltd
वर्तमान पता Current Address	2nd Floor, Dlf Gateway Tower, Dlf Cyber City
भूमि स्थान Land Location	Gurgaon, Gurgaon, Wazirabad
भूमि मापन Land Measurements	32.84 (Acre)
आयत नम्बर / मुरबा नम्बर Rectangle No./ Murba No.	Rectangle No Not Applicable, The Applicable Khasra Nos : 1965,2079/1,2080/1,1966,1967,1968,1970,1969/1,2065,2066,2070,2071,2072,2073,2069, ,2067,2068,2063,2064,2079/2,2080/2,2075/2,2076/2,2077/2,2075/3,2076/3,2077/3,2074, 2075/1,2076/1,2077/1,1985/1 (73/181),1985/1 (72/181),1985/1 (35/181),

Reference No. (SRN):- G0U-N70-YNMH

जारी करने की तिथि / Date of Issuance: 30-07-2021

जारी करने का स्थान / Place of Issuance: Gurgaon

जारी करने वाला प्राधिकरण / Issuing Authority: Divisional Forest Officer



This is a Digitally Signed Certificate and does not require physical signature. The authenticity of this certificate can be verified from the verification link mentioned below:

<https://164.100.137.243/eservices/mobileapi/verify/clarification/G0UN70YNMH>





प्रभागीय वन अधिकारी द्वारा स्पष्टीकरण पत्र  
Clarification letter by  
Concerned Divisional Forest Officer  
हरियाणा सरकार / Government of Haryana



गैर-वन भूमि पर वन कानून उपयुक्तता के विषय में स्पष्टीकरण पत्र  
Clarification letter regarding applicability of forest laws on non forest land.

किला नम्बर  
Killa Number

Killa No Not Applicable, The Applicable Khasra Nos :  
1965,2079/1,2080/1,1966,1967,1968,1970,1969/1,2065,2066,2070,2071,2072,2073,2069  
,2067,2068,2063,2064,2079/2,2080/2,2075/2,2076/2,2077/2,2075/3,2076/3,2077/3,2074,  
2075/1,2076/1,2077/1,1985/1 (73/181),1985/1 (73/181),1985/1(35/181)

प्रयोजन  
Purpose

Building Construction



जारी करने की तिथि / Date of Issuance: 30-07-2021  
जारी करने का स्थान / Place of Issuance: Gurgaon  
जारी करने वाला प्राधिकरण / Issuing Authority: Divisional Forest Officer



This is a Digitally Signed Certificate and does not require physical signature. The authenticity of this certificate can be verified from the verification link mentioned below:

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प्रभागीय वन अधिकारी द्वारा स्पष्टीकरण पत्र  
Clarification letter by  
Concerned Divisional Forest Officer  
हरियाणा सरकार / Government of Haryana



गैर-वन भूमि पर वन कानून उपयुक्तता के विषय में स्पष्टीकरण पत्र।

Clarification letter regarding applicability of forest laws on non forest land.

Applicant Alok Kumar located at village /city Gurgaon district Gurgaon  
made a proposal to use this land for Building Construction. It is made clear that:

- a) As per records available above said land is not part of notified Reserved Forest, Protected Forest under Indian Forest Act, 1927 or any area closed under section 4 of Punjab Land Preservation Act, 1909.
- b) It is clarified that by the Notification No. S.O.8/PA.2/1900/S. 4/2013 dated 4<sup>th</sup> January, 2013, all Revenue Estate of Gurgaon is notified u/s 4 of PLPA 1900 and S.O.81/PA.2/1900/S.3/2012 u/s 3 of PLPA 1900. The area is however not recorded as forest in the Government record but felling of any tree is strictly prohibited without the permission of Divisional Forest Officer, Gurgaon.
- c) If approach is required from Protected Forest by the user agency, the clearance/ regularization under Forest Conservation Act 1980 will be required. Without prior clearance from Forest Department, the use of Forest land for approach road is strictly prohibited. M/s Df Home Developers Ltd whose land is located at village/city, Gurgaon District Gurgaon must obtain clearance as applicable under Forest Conservation Act 1980.
- d) As per the records available with the Forest Department, Gurgaon the area does not fall in areas where plantations were raised by the Forest Department under Aravalli project.
- e) All other statutory clearances mandated under the Environment Protection Act, 1986, as per the notification of Ministry of Environment and Forests, Government of India, dated 07-05-1992 or any other Act/ order shall be obtained as applicable by the project proponents from the concerned authorities.
- f) The project proponent will not violate any Judicial Order/ direction issued by the Hon'ble Supreme Court/ High Courts.
- g) It is clarified that the Hon'ble Supreme Court has issued various judgments dated 07.05.2002, 29.10.2002, 16.12.2002, 18.03.2004, 14.05.2008 etc. pertaining to Aravalli region in Haryana, which should be complied with.
- h) It shall be the responsibility of user agency/ applicant to get necessary clearances/ permissions under various Acts and Rules applicable if any, from the respective authorities/ Department.
- i) This certificate is not applicable in case of Environment Department notification dated 10.03.2016 for Screening Plant, and notification dated 11.05.2016 for Stone Crusher. Investor/Applicant has to take clearance from Environment Department in case of Screening Plant and Stone Crusher.

It is subject to the following conditions:

1. The Hon'ble Supreme Court Has Issued Various Judgments Dated 07.05.2002, 29.10.2002, 14.05.2008 Etc. Pertaining To Aravali Region In Haryana, Which Should Be Complied With, Since The Proposed Site Falls Within 5 Km Of The Delhi Boundary. Permission From Competent Authority Will Be Required.



Date: 30-07-2021  
Place: Gurgaon

Rajeev Tejyan,  
(Divisional Forest Officer)

This is a Digitally Signed Certificate and does not require physical signature. The authenticity of this certificate can be verified from the verification link mentioned below:

<https://164.100.137.243/eservices/mobileapi/verify/clarification/GOUN70YNMH>





प्रेषक,

उपायुक्त, गुरुग्राम।

सेवा में

M/s DLF Limited,  
DLF Gateway Tower,  
R Block, DLF City Phase-III,  
Gurugram-122002.

कमांक 61 / एमबी0

दिनांक 25/10/2021

विषय:-

Clarification regarding applicability of Forest Laws on Non-Forest Land (i.e. NOC Forest) for land/Khasras (Total area 32.84 acres) falling within the project site of "The Grove" in DLF 5, Sector-54, Village Wazirabad, Gurugram, Haryana.

उपरोक्त विषय के संदर्भ में।

विषयाधीन मामले में उक्त के सम्बन्ध में तहसीलदार, वजीराबाद व उप वन संरक्षक, गुरुग्राम से रिपोर्ट प्राप्त की गई जो निम्न प्रकार है:-

तहसीलदार, वजीराबाद ने अपने कार्यालय के पत्र क्रमांक 1330/ओ0के0 दिनांक 14.09.2021 के द्वारा रिपोर्ट इस कार्यालय में प्रेषित की है जिसमें लिखा है कि फिल्ट स्टॉफ से रिपोर्ट ली गई रिपोर्ट अनुसार मौजा वजीराबाद तहसील वजीराबाद जिला गुरुग्राम के खसरा नं० 1965(2-7-0), 1966(3-13-0), 1967(0-18-0), 1968(1-19-0), 1969/1(2-0-17), 1970(0-14-0), 1985/1(9-1-1), 2065(0-6-0), 2066(2-3-0), 2070(1-10-0), 2071(3-0-0), 2072(0-12-0), 2073(1-6-0), 2069(0-15-0), 2079/1(1-5-0), 2081/1(0-4-8), 2063(2-3-0), 2064(8-1-0), 2079/2(1-6-0), 2080/1(0-4-8), 2080/2(0-4-8), 2075/2(0-9-4), 2076/2(0-10-7), 2077/2(0-5-5), 2075/3(0-14-0), 2074(0-15-0), 2075/1(0-8-8), 2076/1(0-9-9), 2077/3(0-9-5), 2077/1(0-5-0), 2067(3-6-0), 2068(0-15-0), 2076/3(0-14-4), किता 32 तादादी रकबा 52 बिघा 9 बिस्वा 14 बिस्वासी की मालिक बरूवे इन्तकाल नं० 8740 की मालिक मैसर्स डी०एल०एफ० यूटिलिटीज लि० सापिंग माल थड फ्लोर अर्जन डी.एल.एफ. सीटी फेस-1, गुरुग्राम मालिक है। मांगी गई रिपोर्ट बिन्दुवार निम्न प्रकार है :-

1. उपरोक्त खसरा नं० दिनांक 07.05.1992 के नोटिफिकेशन अनुसार अरावली क्षेत्र में नहीं है।
2. उपरोक्त अराजी भूमि 07.05.1992 के नोटिफिकेशन से पूर्व व पश्चात मिसल हकियत/चकबन्दी तक कभी भी अराजी मुतनाजा की किस्म गैर-मुमकिन पहाड, गैर-मुमकिन राडा, गैर-मुमकिन बीहड, बंजड या रुन्द्र नहीं है।
3. उपरोक्त आराजी भूमि 07.05.1992 के नोटिफिकेशन से पूर्व व उसके पश्चात के खसरा नं० 1965, 1966, 1967, 1969/1, 1970, 1985, 2065, 2066, 2070, 2071, 2072, 2073, 2069, 2079/1, 2080/1, 2063, 2064, 2079/2, 2080/2, 2067, 2068 की किस्म गैर मुमकिन कालोनी दर्ज है वा खसरा नं० 2075/2, 2076/2, 2077/2, 2075/3, 2074, 2075/1, 2076/1, 2077/1, 2077/3, 2076/3 की किस्म चाही है।
4. उपरोक्त अराजी भूमि अराजी मुतनाजा मिसल हकियत/चकबन्दी ता हाल कभी भी शामिलता देह/पंचायत देह/नगर पालिका/नगर निगम की मलकियत नहीं रही है।
5. उपरोक्त अराजी मुतनाजा का किसी भी माननीय न्यायालय में कोई केस राजस्व में दर्ज नहीं है।
6. उपरोक्त अराजी SEZ(Special Economical Zone) में नहीं है।
7. उपरोक्त खसरा नं० पर जमाबन्दी के खाना कैफियत में धारा 4-6 व अवार्ड का इन्द्राज नहीं है।

उप वन संरक्षक, गुरुग्राम ने अपने कार्यालय के पत्र क्रमांक 1945-47-जी0 दिनांक 29.09.2021 के द्वारा Corrigendum इस कार्यालय के प्रस्तुत किया है जिसमें लिखा है कि An online clarification (SRN:-GOU-N70-YNMH) has been issued by this office on dated 30.07.2021 in favour of M/s DLF Home Developers Ltd. for 32.84 acre of land bearing Khasra No. 1965, 2079/1, 2080/1, 1966, 1967, 1968, 1970, 1969/1, 2065, 2066, 2070, 2071, 2072, 2073, 2069, 2067, 2068, 2063, 2064, 2079/2, 2080/2, 2075/2, 2076/2, 2077/2, 2075/3, 2076/3, 2077/3, 2074, 2075/1, 2076/1, 2077/1, 1985/1(73/181), 1985/1(73/181), 1985/1(35/181), at Village Wazirabad, Tehsil Wazirabad & District Gurugram. It has been wrongfully (clerical mistake) mentioned name of Organisation as DLF Home Developers Ltd. No amendments/rectification can be done online. Hence it may now be read as DLF Ltd. The rest of the





conditions remain the same as mentioned in the online clarification. इसके अतिरिक्त उनके कार्यालय द्वारा ऑनलाईन दिनांक 30.07.2021 (M/s DLF Home Developers Ltd.) को गांव वजीराबाद की फॉरेस्ट क्लेरिफिकेशन ऑनलाईन की छाया प्रति इस कार्यालय में प्रेषित की है जिसमें लिखा है कि Applicant M/s DLF Home Developers Ltd., Land Measuring 32.84 (Acre) having Khasra Nos. 1965, 2079/1, 2080/1, 1966, 1967, 1968, 1970, 1969/1, 2065, 2066, 2070, 2071, 2072, 2073, 2069, 2067, 2068, 2063, 2064, 2079/2, 2080/2, 2075/2, 2076/2, 2077/2, 2075/3, 2076/3, 2077/3, 2074, 2075/1, 2076/1, 2077/1, 1985/1(73/181), 1985/1(73/181), 1985/1(35/181) Land located at village Wazirabad District Gurugram made a proposal to use this land for Building Construction. It is made clear that:-

- A) As per records available above said land is not part of notified Reserved Forest, protected Forest under Indian Forest Act, 1927 or any area closed under section 4 of Punjab Land Preservation Act 1900.
- B) It is clarified that by the Notification No. S.O 8/P.A 2/1900/S. 4/2013 dated 04-01-13 all Revenue Estate of Gurgaon is notified u/s 4 of PLPA 1900 and S.O 81/PA.2/1900/S.3/2012 u/s 3 of PLPA 1900. The area is however not recorded as Forest in the Government record but felling of any tree is strictly prohibited without the permission of Divisional Forest officer, Gurgaon.
- C) If approach is required from Protected forest by the user agency, the clearance/regularization under Forest Conservation Act 1980 will be required. Without prior clearance from Forest Department, the use of Forest land for approach road is strictly prohibited. M/s DLF Home Developers Ltd. whose land is located at Village/City Wazirabad District Gurgaon must obtain clearance as applicable under Forest Conservation Act. 1980.
- D) As per the records available with the Forest Department Gurgaon the area does not fall in areas where plantations were raised by the Forest Department under Aravali project.
- E) All other statutory clearances mandated under the Environment protection Act. 1986, as per the notification of Ministry of Environment and Forest, Government of India dated 07-05-1992 or any other Act/Order shall be obtained as applicable by the project proponents from the concerned authorities.
- F) The project proponent will not violate any Judicial Order/Direction issued by the Hon'ble Supreme Court/High Courts.
- G) It is clarified that the Hon'ble Supreme Court has issued various judgments dated 07-05-2002, 29-10-2002, 16-12-2002, 18-03-2004, 14-05-2008 etc. pertaining to Aravali region in Haryana, which should be complied with.
- H) It shall be the responsibility of user agency/applicant to get necessary clearances/ permissions under various Acts and Rules applicable if any, from the respective authorities/department.
- I) This certificate is not applicable in case of Environment Department notification dated 10.03.2016 for Screening Plant, and notification dated 11.05.2016 for Stone Crusher. Investor/Applicant has to take clearance from Environment Department in case of Screening Plant and Stone Crusher.

It is subject to the following conditions:

1. The Hon'ble Supreme Court Has Issued Various Judgments Dated 07.05.2002, 29.10.2002, 14.05.2008 Etc. Pertaining to Aravali Region In Haryana, Which should be Compiled With, Since The Proposed Site Fall Within 5 Km Delhi Boundary. Permission from Competent Authority Will be Required.

अतः तहसीलदार, वजीराबाद व उप वन संरक्षक, गुरुग्राम की रिपोर्ट अनुसार आपको Village Wazirabad, Sector-54, District Gurugram की उक्त वर्णित भूमि की Aravali Clearance/Non Forest Land रिपोर्ट इस शर्त पर जारी की जाती है कि कि प्रार्थी कम्पनी को दी गई एन0ओ0सी में यदि किसी नम्बरो पर हरियाणा सरकार के किसी भी विभाग द्वारा किसी प्रकार की भूमि अर्जन कार्यवाही धारा 4, 6 व अर्वाड आदि राजस्व रिकार्ड अनुसार पाया गया तो सम्बन्धित नम्बरो की अरावली एन0ओ0सी0 स्वतः रद्द समझी जावेगी जिसके लिए प्रार्थी कम्पनी स्वयं जिम्मेवार होगी।



कृते: उपर्युक्त, गुरुग्राम।

22/10/21



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Haryana)

To,

The Authorized Signatory

M/S DLF LIMITED & OTHERS

1st Floor, DLF Gateway Tower, R Block, DLF City, Phase-III, Gurugram  
122002 -122002

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/HR/MIS/239923/2021 dated 08 Dec 2021. The particulars of the environmental  
clearance granted to the project are as below.

- |   |  |
|---|--|
| 1. EC Identification No.                      | EC22B038HR179726   |
| 2. File No.                                   | File.No. SEIAA/HR/2021/490   |
| 3. Project Type                               | Expansion  |
| 4. Category                                   | B2   |
| 5. Project/Activity including<br>Schedule No. | 8(a) Building and Construction projects  |
| 6. Name of Project                            | Expansion of Independent Floors "The<br>Grove" at Block B, Sector 54, DLF 5,<br>Gurugram, Haryana by M/s DLF Limited &<br>Others |
| 7. Name of Company/Organization               | M/S DLF LIMITED & OTHERS   |
| 8. Location of Project                        | Haryana  |
| 9. TOR Date                                   | N/A  |

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 29/01/2022

(e-signed)  
S. Narayanan, IFS  
Member Secretary  
SEIAA - (Haryana)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)





**State Environment Impact Assessment Authority, Haryana,  
Bays No.55-58, Prayatan Bhawan, Sector-2 Panchkula.**

**Tel: 0172-2565232, 4043956**  
**E-mail Id: [seiaa-21.env@hry.gov.in](mailto:seiaa-21.env@hry.gov.in)**

**Subject: EC for Expansion of Independent Floors “The Grove” at Block B, Sector 54, DLF 5, Gurugram, Haryana by M/s DLF Limited & Others.**

This has reference to your Proposal No. SIA/HR/MIS/239923/2021 dated 08.12.2021 and subsequent letter dated 28.12.2021 and 17.01.2022 for seeking prior Environmental Clearance (EC) for the above project under the EIA Notification, 2006 along with submission of required Affidavits as well as Scrutiny Fee amounting of Rs. 2,00,000/- vide DD. No. 519998 dated 22.11.2021 in compliance of Haryana Government, Environment & Climate Change Notification No. DE&CCH/3060 dated 14<sup>th</sup> October, 2021. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, Form1-A, Conceptual Plan and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MoEF & CC, GoI vide their Notification dated 30.01.2019, in its meeting held on 28.12.2021 awarded “Gold” rating / grading to the Project.

2. It is inter-alia, noted that the project involves the Expansion of Independent Floors “The Grove” at Block B, Sector 54, DLF 5, Gurugram, Haryana.

3. The details of project are as under:

**Table1: Basic details**

Sr. No.	Particulars	Existing	Expansion	Total Area (in M <sup>2</sup> )
	<b>Online Project Proposal Number</b>	<b>SIA/HR/MIS/239923/2021</b>		
1.	Latitude	28°26'38.40"N		
2.	Longitude	77° 6'18.41"E		
3.	Total Plot Area of entire Project (Residential Plotted Colony)	127435.51 / 31.49 Acres	Nil	127435.51 / 31.49 Acres
4.	Total Area for Independent Floors	10951.01 sq.m (2.71 Acres)	10560.52 sq.m (2.6 Acres)	21511.53 sq.m (5.31 Acres)
5.	Proposed Ground Coverage	6,735.85 sq.m	6548.29 sq m	13,284.14 sq.m
6.	Proposed FAR	27,010.86 sq.m	26,517.04 sq m	53527.9 sq.m
7.	Non FAR Area	24,146.29 sq.m	23,214.52	47360.81 sq.m
8.	Total Built Up area	51,157.15 sq.m	49731.56	1,00,888.71 sq.m
9.	Total Green Area with Percentage	16302.754 sq.m	--	16302.754 sq.m(25.5% )
10.	Rain Water Harvesting Pits	38 Nos.	35 Nos.	73 Nos
11.	STP Capacity	DLF- 5 Common STP- 15 MLD	Nil	DLF- 5 Common STP- 15 MLD
12.	Total Parking	228 ECS	210 ECS	438 ECS

13.	Organic Waste Converter		1 nos. of OWC of capacity 500 Kg/day (1x500 Kg/day)	Total 2 nos. of Organic waste converters of capacity 800 Kg/day (2 x 150)	Total 3 nos. of Organic waste converters of capacity 800 Kg/day (1 x500 + 2 x 150)
14.	Maximum Height of the Building (m)		16.5 m		16.5 m
15.	Power Requirement		1,546 kVA		3,062 KVA
16.	Power Backup		3 no's of DG set of total capacity =1,500 kVA (3x 500 kVA)		5 D.G. set of total capacity of 2,750 kVA (4 x 500 + 1 x 750 kVA)
17.	Total Water Requirement		175 KLD	88KLD	263 KLD
18.	Domestic Water Requirement		70KLD	65KLD	136KLD
19.	Fresh Water Requirement		94 KLD	88 KLD	136KLD
20.	Treated Water		81 KLD	--	81KLD
21.	Waste Water Generated		80KLD	75KLD	155KLD
22.	Solid Waste Generated		553	521	1074
23.	Biodegradable Waste		332	312	644
24.	Basement		1 in each 38 no's of plots	1 in each 35 no's of plots	1 in each 73 no's of plots
25.	Stories		Basement+Stilt+4 Floors	Basement+Stilt +4 Floors	Basement+Stilt+4 Floors
26.	R+U Value of Material used (Glass)	ECO NiwasSamhita norms			
27.	Total Cost of the project:	i) Land Cost	233.4 Cr	321.9 Cr	555.3 Cr
		ii) Construction Cost			
28.	EMP Budget (per year)	i) Capital Cost	<b>During Construction Phase</b> Capital Cost- 69 Lakhs Recurring Cost - 27 Lakhs <b>During Operational Phase</b> Capital Cost- 229 Lakhs Recurring cost- 994 Lakhs		<b>During Construction Phase</b> Capital Cost- 395 Lakhs Recurring Cost (For 5 Years) - 420Lakhs <b>During Operational Phase</b> Capital Cost- 610 Lakhs Recurring cost (For 10 years)- 810 Lakhs
		ii) Recurring Cost			
29.	Incremental Load in respect of:				
	i) PM 2.5		0.02049µg/m <sup>3</sup>		0.02418µg/m <sup>3</sup>
30.	ii) PM 10		0.05123µg/m <sup>3</sup>		0.06044µg/m <sup>3</sup>
31.	iii) SO <sub>2</sub>		0.19157µg/m <sup>3</sup>		0.19157µg/m <sup>3</sup>
32.	iv) NO <sub>2</sub>		0.15593µg/m <sup>3</sup>		0.15593µg/m <sup>3</sup>
33.	v) CO		0.0000110mg/m <sup>3</sup>		0.0000011mg/m <sup>3</sup>
34.	Status of Construction	No construction has been			

		started yet as the EC for existing plots has been issued on dated 24/11/2021		
35.	Construction Phase:	i) Power Back-up		Temporary electrical connection of 19 KW & 02 DG of 125 kVA
		ii) Water Requirement & Source		Fresh water – 10 KLD for drinking & sanitation. Treated wastewater 30 KLD for construction Source: Fresh water – HSVP Construction Water – treated wastewater from common STP from nearby project premises
		iii) STP (Modular)		(Effluent will be treated in existing common STP situated near by the project premises)

**Table 2: EMP BUDGET**

During Construction Phase			During Operation Phase		
Description	Capital Cost (In Lakhs)	Recurring Cost (In Lakhs for 5 Year)	Description	Capital Cost (in Lakhs)	Recurring Cost (In Lakhs for 10 Year)
Sanitation and Wastewater Management	40.00	45.00	Waste Water Management (Sewage Treatment Plant)	0.00	100.00
Garbage & Debris disposal	0.00	50.00	Solid Waste Management (Dust bins & OWC)	200.00	175.00
Green Belt Development	50.00	40.00	Green Belt Development	50.00	80.00
Air, Noise, Soil, Water Monitoring	0.00	60.00	Monitoring for Air, Water, Noise & Soil	00.00	120.00
Rainwater harvesting system	200.00	145.00	Rainwater harvesting system	00.00	50.00
Dust Mitigation Measures Including site barricading, water	60.00	50.00	DG Sets including stack height and acoustics	300.00	200.00

sprinkling and anti-smog gun)					
Medical cum First Aid facility ( providing medical room & Doctor)	45.00	30.00	Establishment of Miyawaki Forests for Urban and Rural greening outside Project Boundary	10.00	5.00
			CSR Activities	50.00	80.00
<b>Total</b>	<b>395 Lakhs</b>	<b>420 Lakhs</b>	<b>Total</b>	<b>610 Lakhs</b>	<b>810 Lakhs</b>

4. The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations, have recommended the grant of environmental clearance for the project mentioned above, subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority in its **134<sup>th</sup> meeting held on 17<sup>th</sup> – 18<sup>th</sup> January 2022** decided to agree with the recommendations of SEAC to accord necessary Environmental Clearance for the project under **Category 8(a)** of EIA Notification 2006 subject to the **strict compliance with the following stipulations depicted below:-**

**A. Specific conditions:-**

1. Sewage shall be treated in the modular STP 15MLD based on SBR& MBR Technology to achieve standards ordered by NGT. The Treated effluent from STP shall be recycled /reused for flushing. DG cooling and Gardening
2. The PP shall spent Rs.5Lakhs on various wildlife conservation activities like artificial nests on the trees, digging of ponds and construction of feeding platforms through Environment Management Plan
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.
4. The PP shall ensure that total 2% of the cost of project shall be spent on EMP Budget. However, the amount and component shown in EMP table above shall also be included for the purpose of 2% amount. 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.
5. The PP shall not carry out any construct above and below revenue rasta if passing through the project and ensure that permission of the competent authority shall be obtained before carry out any construction above or below the revnue rasta. The PP shall put notice board on the revenue rasta for the passer byes.
6. 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.
7. 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.
8. 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 the premises which will include area for segregation, composting. The Inert waste from the project will be sent to solid waste dumping site through authorized vender.



9. 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 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 purpose to be carried out by the project or other agencies in this 05kms radius of the site in different scenarios of space and time
10. No tree cutting has been proposed in the instant project. A minimum of 1 tree for every 80sqm of land should be planted and maintained. The Existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping. As proposed 16,302.754 sq.m. (25.5%) shall be provided for Green Area development for whole project, excluding plot areas.
11. 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.
12. Consent to establish/operate for the 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.
13. The Approval of the Competent Authority shall be obtained for structural safety of building code due to earthquakes, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightning etc.
14. The PP shall obtain the Fire NOC from the Competent Authority before taking the occupation of the building.
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 So<sub>2</sub> load by 30% if HSD is used. The DG sets will be operated for maximum 04 hours during power failure through Executing Agency
16. The PP shall not give occupation or possession before the water supply and sewage connection permitted by the competent authority.
17. The PP shall not give occupation or possession before the electricity connection permitted by the competent Authority.
18. The PP shall obtain the permission regarding withdrawal of ground water, if any from HWRA/CGWA before the start of the project and also obtained the CTO from HSPCB after the approval from HWRA/CGWA.
19. The PP shall carry out the quarterly awareness programs for the stakeholders of the project.
20. 35 Rain water harvesting recharge pits shall be provided for ground water recharging as per the CGWB norms in addition to 38 existing RWH. Total 73 RWH
21. The PP shall install Digital water level recorder for monitoring the water recharge and carry out quarterly maintenance and cleaning of 35 RWH pits in expansion and total 73 RWH pits.
22. The PP shall provide the Anti smog gun mounted on vehicle in the project for suppression of dust during construction & operational phase and shall use the treated water, if feasible.
23. The PP shall take all preventive measures including water sprinkles to control dust during construction and operational phase.
24. Any change in stipulations of EC will lead to Environment Clearance void-ab-initio and PP will have to seek fresh Environment Clearance.
25. Adequate studies have been carried out to ascertain that there would not be any obstruction or impediment in general traffic in vicinity of the project due to the said expansion of the project.
26. The no. of in-bound & out-bound vehicles (44 PCU /Hr.) and the running hours per day (24 hours) of DG sets considered while undertaking the studies for evaluating the "Incremental Pollution Load" and those are true to best of our knowledge.
27. The PP shall submit affidavit mentioning that the proposed & installed DG sets & fuel to be used would be as per NCAP/GRAP.
28. The PP shall submit affidavit mentioning that no untreated water would be released inside or outside the project or anywhere; waste water would be treated to tertiary level & would be used with the installation of "Dual plumbing".
29. That before coming to operation, Project Proponent will ensure that all permissions & connections pertaining to Electricity & Sewage discharge are in place.

**B. Statutory 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.
- [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 lightning etc.
  - [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.
  - [4] The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
  - [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.
  - [6] The project proponent shall obtain the necessary permission for drawl of ground water /surface water required for the project from the competent authority.
  - [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.
  - [8] All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
  - [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.
  - [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.

#### **I Air Quality Monitoring and Preservation**

- 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.
- ii. A management plan shall be drawn up and implemented 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. PM10 and PM2.5) covering upwind and downwind directions during the construction period.
- 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 lowsulphur diesel. The location of the DG sets may 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.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress 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.
- x. The diesel generator sets to be used during construction phase shall be ultra lowsulphur diesel type and shall 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.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

## II Water Quality Monitoring and Preservation

- i. 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.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. 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.
- ix. 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.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. 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.
- xii. 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 reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. 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.
- xvi. 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.
- xvii. 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.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. 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.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

- xxi. 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.
- III Noise Monitoring and Prevention**
- i. 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.
  - ii. 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.
  - iii. 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.
- IV Energy Conservation Measures**
- 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.
  - ii. Outdoor and common area lighting shall 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.
  - iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should 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.
  - 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.
  - vii. The PP will submit report indicating compliance of each parameter of ECBC requirement and submit quantification saving report for each component.
- V Waste Management**
- 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.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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 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 27th August, 2003 and 25th January, 2016. Ready mixed concrete must 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.
- 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.

#### **VI Green Cover**

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. 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).
- ii. A minimum of 1 tree (5' tall) for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. 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 1 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.
- iv. 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.

#### **VII Transport**

- i. 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.
  - c) Proper design of entry and exit points.
  - d) Parking norms as per local regulation.
- ii. 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.
- iii. 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.

#### **VIII Human Health Issues**

- i. 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.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations

of the project.

## **IX Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions of CER, as applicable.
- ii. 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 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 shareholders/ 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.
- iii. 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.
- iv. 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.

## **X Miscellaneous**

- i. 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.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. 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.
- iv. 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.
- v. 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 company.
- vi. 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.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the form-IA, Conceptual Plan and also that during their presentation to the Expert Appraisal Committee.
- ix. 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.
- x. 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
- xi. 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.
- xii. 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.
- xiii. The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The Ministry/SEIAA reserves the right to stipulate additional conditions if found

- necessary. The Company in a time bound manner shall implement these conditions.
- xv. 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.
  - xvi. 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.
  - xvii. The validity of this environment clearance letter is valid up to 7 years from the date of issuance of EC letter. The environment clearance conditions applicable till life space project will continue to apply. In case of violation the action would be taken as per the laid down law of land. Compliance report should be sent to this office till life of the project.
  - xviii. 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 i.e. 7 years.
  - xix. The Project Proponent should intimate to the Authority as well as to the quarter concerned in case of any change in the present communication address.

**(S. Narayanan, IFS)**  
**Member Secretary,**  
**State Level Environment Impact**  
**Assessment Authority, Haryana, Panchkula.**

**A copy of the above is forwarded to the following:**

1. Director (IA Division), MoEF & CC, GoI, Indira Paryavaran Bhavan, Zor bagh Road-New Delhi-110003.
2. Chairman, State Environment Impact Assessment Authority, Bay No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana
3. Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.
4. Director, Environment & Climate Change Department, Haryana, SCO 1-3, Sector-17 D, Chandigarh-160017
5. Director General, Town & Country Planning Haryana, Plot No. 3, Sector - 18A, Madhya Marg, Chandigarh- 160018.
6. Regional Office, Ministry of Environment, Forests & Climate Change, Govt. of India, Bay's No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160018.
7. Concerned File/ Office Copy

**(S. Narayanan, IFS)**  
**Member Secretary,**  
**State Level Environment Impact**  
**Assessment Authority, Haryana, Panchkula.**