



Date: 08-06-2024

To

State Environment Impact Assessment Authority (SEIAA),  
Bay No. 55-58, Paryatan Bhavan, Sector-2,  
Panchkula, Haryana.

**Sub: Submission of Six Monthly Compliance Report of Stipulated Conditions of Environmental Clearance for Proposed Commercial Colony (Retail, Food Court & Office) at Village Maidawas, Sector-66, Gurugram (Haryana) for the period of June 2024.**

**Ref. No. SEIAA (128)/HR/2021/620 Dated- 09/07/2021**

Sir,

In accordance to the environmental clearance for the above project received from the State Environment Impact Assessment Authority (SEIAA), Haryana, vide letter no. **SEIAA (128)/HR/2021/620 Dated- 09/07/2021**. We are submitting herewith six monthly compliance report of stipulated conditions of Environment Clearance (soft copy) for the period of **June 2024**.

Yours Faithfully

**For Elan City LLP**

(Authorized signatory)

Name - Gaurav Khandelwal  
Designation- Sr. GM finance & Accounts  
E-mail - Gaurav.khandelwal@elanlimited.com  
Contact No.-9582727222

19/6/24  
Haryana State Pollution Control Board  
C-11, Sector 6, Panchkula

Copy to:

1. The Regional Office, Ministry of Environment & Forests, MoEF&CC Govt. Of India, Bay's No. 24-25, sector-31-A, Dakshin Marg, Chandigarh.
2. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.

**ELAN CITY LLP**

Registered Office: 15<sup>th</sup> Floor, Two Horizon Center, DLF Phase 5, Sector-43,  
Golf Course Road, Gurugram-122002, Haryana, India  
Tel: 0124-4101100 • Email: info@elanlimited.com • Web: www.elanlimited.com  
CIN: AAU-2796



Date: 03-06-2024

To

State Environment Impact Assessment Authority (SEIAA),  
Bay No. 55-58, Paryatan Bhavan, Sector-2,  
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# 1

## ***INTRODUCTION***

### **1.1 Introduction**

**M/s Elan City LLP** proposed the Commercial Colony (Retail, Food Court & Office) at Village- Maidawas, Sector-66, Gurugram Haryana

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

#### **Status of the Project:**

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

# 2

## ADHERENCE TO SPECIFIC AND GENERAL CONDITIONS

### Specific Conditions:

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	Sewage shall be treated in the STP based on latest Technology with tertiary treatment i.e. Ultra Filtration 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 get the final IGBC certification for extra FAR before the Start of the Project.	<i>We have obtained certificate from GRIHA. The Copy of same is attached as <b>Annexure - 8</b></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>A monitoring plan to the satisfaction of the State Pollution Control Board to continuously monitor the treated waste water being used for flushing in terms of faecal coli forms and other pathogenic bacteria shall be devised.</i>
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.	<i>Noted and will be fulfilled in due course of time.</i>
5.	The project proponent shall upload the status of compliance of the basic details (given in above tables), stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	<i>We assure that we will upload the status of compliance of the basic details, stipulated environment clearance conditions, including results of monitored data on the website</i>
6.	The Project Proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.	<i>A third party study will be commissioned on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems etc.</i>
7.	Separate wet and dry bins must be provided in each unit and at ground level for facilitating segregation of waste. Solid shall be segregated in to wet garbage and inert materials. Wet Garbage shall composted in Organic waste convertor. Adequate area shall be provided for solid waste management within the premises which will include area for segregation, compositing. The inert waste from the project will sent to solid waste dumping site through authorized vender	<i>Noted. Separate wet and dry bins will be provided in each unit and at ground level for facilitating segregation of waste. OWC will be installed to manage the organic waste.</i>
8.	Traffic management plan as submitted shall be implemented in letter and spirit. Apart, a detailed traffic	<i>Agreed.</i>

**Environmental Clearance for Commercial Colony (Retail, Food Court & Office) at Village- Maidawas, Sector-66, Gurugram Haryana**

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	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	
9.	The PP shall not carry any construction below the HT Line passing through the project.	<i>We assure that no construction will be done below the HT lines passing through the project.</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 2,711.39 m <sup>2</sup> (20%) of plot area) shall be Provided for green area development.	<i>Agreed and complied.</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>Noted. All the necessary clearances has been already obtained. Copy of Licence is attached as <b>Annexure-1</b></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>CTE has been already obtained vide no. 313116321GUNOCTE13937721 dated 026.07.2021 and the copy of same is attached 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>Structural stability certificate has been already obtained. Copy of same is attached as <b>Annexure-3</b></i>
14.	The PP shall obtain the fire NOC from the Competent Authority before taking the Occupation the Building.	<i>Fire fighting scheme has been already obtained. Copy of is attached as <b>Annexure -4</b></i>
15.	The PP Install the Eco Friendly Green Transformer based on ester oil to reduce the. Carbon footprint. The PP shall shift to gas based generator set when the gas is available. The PP shall install APCM for the DG set. The PP shall reduce the So2 load by 30% if HSD is. Used. The DG sets will be operated for maximum 04 hours during power failure through Executing Agency.	<i>Noted. Eco Friendly Green Transformer based on ester oil shall be installed.</i>
16.	The PP shall not give occupation or possession before the water supply and sewage connection permitted by the competent authority.	<i>Noted and will be complied. Sewage Assurance has been already obtained. The copy of same is attached as <b>Annexure- 5.</b></i>
17.	The PP shall not give occupation or possession before the electricity connection permitted by the competent Authority.	<i>Noted and Agreed</i>
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>Noted</i>
19.	The PP shall carry out the quarterly awareness programs	<i>Noted</i>

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	for the stakeholders of the project	
20.	4 Rain water harvesting recharge pits shall be provided for ground water recharging as per the CGWA Norms.	<i>Noted 4 nos. of RWH structures will be provided</i>
21.	The PP shall installed digital water level recorder from Monitoring the water recharge and carry out quarterly maintenance and cleaning of 4 RWH Pits.	<i>Noted. The same shall be provided</i>
22.	The PP shall provide the anti- smog gun mounted on truck in project for super vision of dust during construction & operational phase and shall use the treated water.	<i>Anti- smog gun has been already installed at the project site for dust suppression.</i>
23.	The PP shall take preventive measures including water sprinkling to control dust during construction & operational phase.	<i>Noted and will be done regularly</i>
24.	The PP shall provide the mechanical ladder for use in case of emergency.	<i>Noted. Mechanical ladder will be provided for use in emergency.</i>
25.	Any change in stipulation of EC Will lead of to Environment Clearance void-ab-initio and PP will have to seek fresh Environment Clearance.	<i>Noted.</i>
26.	The Extensive Studies have been under taken regarding Traffic scenario and LOS around the site to ascertain the there would be no adverse effect or implement in movement of traffic during construction & Operational phase of upcoming Project.	<i>We have under taken traffic study to ascertain that there would be no adverse effect or implement in movement of traffic during construction &amp; Operational phase of upcoming Project</i>
27.	While carrying out the "Air Dispersion modelling" inbound and outbound vehicles (63PCU/hr) along with emission ans running hour (24 hours) of DG sets has been considered.	<i>Noted.</i>
28.	Running of DG sets/ Captive power during construction or operational phase and fuel to be used would be as per related Guidelines of GRAP & amp; structures/ injections passed by Hon'ble EPCA/NGT and further National Clean Air programmed vide Office Order No. IISPCB/SSC/2020/4320-44 dated 25/06/2020 would be implemented.	<i>Noted and will be implemented.</i>

**B. Statutory Compliance:**

S. No.	Conditions of Environmental Clearance	Status of Compliance
1.	The project proponent shall obtain all necessary clearance/ pemlission 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>
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>Structural stability certificate has been already obtained. Copy of same is attached as <b>Annexure-3</b></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. Copy of same is attached as <b>Annexure-6</b></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/	<i>CTE has been already obtained vide no.</i>

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	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.	313116321GUNOCTE13937721 dated 026.07.2021 and the copy of same is attached as <b>Annexure-2</b>
<b>6.</b>	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>
<b>7.</b>	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>
<b>8.</b>	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>
<b>9.</b>	The provisions of the Solid waste (Management Rules, 2016, e-Waste (Management) Rules, 2016, and the plastic Waste (Management) Rules, 2016 shall be followed.	<i>Waste will dispose as per the guidelines.</i>
<b>10.</b>	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 <b>Annexure -7</b></i>
<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	<i>Proper barricading will be done before the start of construction at site. Sign board and screens will be 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>

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	the site as well as taking out debris from the site.	
<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>Noted. The same will be complied.</i>
<b>[ii]</b>	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	<i>Noted. No natural topography will be spoiled during the construction phase.</i>
<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>Noted. The fresh water requirement will not be exceed the proposed 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>Noted and same will be complied.</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	<i>Noted.</i>

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S. No.	Conditions of Environmental Clearance	Status of Compliance
	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.	<i>Noted. The building will be designed as per the bye-laws.</i>
[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.	<i>Noted. Dual plumbing will be installed as per the requirement.</i>
[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.	<i>Noted.</i>
[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 are done.	<i>Noted. Dual plumbing will be used</i>
[x]	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	<i>Noted. Pre-mix concrete and curing agents will be used to reduce water demand.</i>
[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. 06 Rain water harvesting recharge pits/ storage tanks shall be provided for ground water recharging as per the CGWB norms.	<i>Noted.</i>
[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.	<i>Noted.</i>
[xiii]	All recharge should be limited to shallow aquifer.	<i>Noted.</i>
[xiv]	No ground water shall be used during construction phase of the project.	<i>Noted. Water requirement will be met through GMDA 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>Noted. No ground water will be extracted without prior approval from the 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>

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S. No.	Conditions of Environmental Clearance	Status of Compliance
[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>Noted.</i> <i>Treated sewage water will be reused for the gardening, flushing and cooling purposes.</i>
[xviii]	No sewage or untreated effluent water would be discharged through storm water drains.	<i>Noted. Water will be discharged from 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>Noted.</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 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 I SPCB.	<i>Noise level survey will be carried out as per the guidelines. Monitoring reports are enclosed as <b>Annexure-7</b></i>
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> <i>DG sets will be acoustically enclosed.</i>

**IV. Energy Conservation measures**

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<b>S. No.</b>	<b>Conditions of Environmental Clearance</b>	<b>Status of Compliance</b>
<b>(i)</b>	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>
<b>(ii)</b>	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>
<b>(iii)</b>	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>
<b>(iv)</b>	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>
<b>(v)</b>	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 by-law's requirement, whichever is higher.	<i>Noted.</i>
<b>(vi)</b>	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>
<b>(vii)</b>	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>Used LEDs will be collected properly and disposed off through authorized vendor. Energy conservation measures will be applied as per the BEE standards.</i>

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<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>Building will be constructed as per NBC norms. Air pollution and solid waste management aspects will be properly addressed and compliance with the waste management 2016 rules will be practiced.</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. 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>(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>Construction site is being barricaded properly before the construction begins. All the measure will be taken care during construction to minimize pollution The land to be developed for the project is a vacant lands hence no demolition debris will be generated.</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 age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	<i>The land to be developed for the project is a vacant land. No trees or plants have been cut.</i>
<b>2.</b>	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.</i>
<b>3.</b>	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	<i>Excavated top soil during construction phase will be stored properly to be later used in horticulture landscaping &amp; land filling.</i>

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	greenbelt development shall be provided as per the details provided in the project document.	
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>Mostly Labours from nearby areas will be hired. Safe drinking water, mobile toilets and medical help in emergency will be provided.</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>Regular health surveillance of site workers will be done on regular basis.</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./ 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.	<i>First aid room will be provided for the construction workers as per the requirement.</i>

**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 has been 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	<i>Noted.</i>

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	Management Plan shall be implemented.	
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>Noted.</i>
6.	A First Aid Room shall be provided in the project both during construction and operations of the project.	<i>Noted. We assure to maintain the First aid room during construction and operation phase.</i>

**IX. Corporate Environment Responsibility**

S. No.	Conditions of Environmental Clearance	Status of Compliance
29.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	<i>Noted.</i>
30.	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/ wild life norms/ conditions and/ or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC/SEIAA as a part of six-monthly report.	<i>Noted.</i>
31.	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 qualified environmental cell will be appointed for all the environment related issues.</i>
32.	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>
33.	PP must submit the balance sheet/Account statement duly attested & signed by the Chartered Accountant showing the dispersal of fund in said scheme along with the "six compliance report" positively.	<i>Noted and will be submitted.</i>

**X. Miscellaneous**

S. No.	Conditions of Environmental Clearance	Status of Compliance
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<b>1.</b>	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.</i>
<b>2.</b>	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.</i>
<b>3.</b>	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>Noted.</i>
<b>4.</b>	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 and soft copy of the same to the SEIAA Haryana.	<i>Will be complied.</i>
<b>5.</b>	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>Noted.</i> <i>Environmental statement will be submitted after the project comes in operation phase.</i>
<b>6.</b>	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.</i>
<b>7.</b>	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<i>Noted.</i>
<b>8.</b>	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.</i>
<b>9.</b>	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.	<i>Noted.</i> <i>No further expansion will be without prior approval from the competent authority.</i>
<b>10.</b>	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>Noted and the same will be complied.</i>
<b>11.</b>	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.</i>
<b>12.</b>	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>

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<b>13.</b>	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>
<b>14.</b>	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>
<b>15.</b>	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>Noted</i>
<b>16.</b>	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>
<b>17.</b>	The Project Proponent shall ensure the commitments made in Form-1, Form-1A, EIA/EMP and other documents submitted to the SEIAA for the protection of environment and proposed environmental safeguards are complied with in letter and spirit. In case of contradiction between two or more document on any point, the most environmentally friendly commitment on the project shall be taken as commitment by project proponent.	<i>Noted.</i>
<b>18.</b>	Under the provision of Environment (Protection) Act, 1986, legal action shall be initiated against the Project Proponent if it was found that construction of the project has been started before obtaining prior Environmental Clearance.	<i>Noted.</i>
<b>19.</b>	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, preferred, -within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<i>Noted and will be followed.</i>
<b>20.</b>	The project proponent shall ensure the compliance of Forest Department, Haryana Notification no. S.O.121/PA2/1900/S.4/97 dated 28.11.1997.	<i>Noted.</i>
<b>21.</b>	The project proponent is responsible for compliance of all conditions in Environmental Clearance letter and project proponent cannot absolve himself/ herself of the responsibility by shifting it to any contractor engaged by project proponent. Besides the developer/ applicant, the responsibility to ensure the compliance of Environmental Safeguards/ conditions imposed in the Environmental Clearance letter shall also lie on the licensee/ licensees in whose name/ names the license/ CLU has been granted by the Town & Country Planning Department, Haryana.	<i>Noted.</i>
<b>22.</b>	In view of the severe constraints in water supply augmentation in the region and sustainability of water resources, the developer will submit the NOC from CGWA specifying water extraction quantities and assurance from HUDA/utility provider indicating source of water supply	<i>Noted.</i>

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	and quantity of water with details of intended use of water portable and non-portable assurance. Assurance is required for both construction and operation stages separately. It shall be submitted to the SEIAA and RO, MoEF, Chandigarh before the start of construction.	
23.	Vertical fenestration shall not exceed 60% of total wall area	<i>Noted.</i>
24.	The Project Proponent shall keep the plinth level of the building blocks sufficiently above the level of approach road to the Project, Levels of the other areas in the Project shall also be kept suitably so as to avoid flooding.	<i>Noted.</i>
25.	The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.	<i>Noted.</i>
26.	The project proponent shall provide proper rasta of proper width and proper strength for the project before the start of construction.	<i>Noted.</i>
27.	The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.	<i>Noted and complied as per the requirement.</i>
28.	The project proponent shall maintain the distance between STP and water supply line.	<i>Noted. Adequate distance will be maintained between STP and water supply line.</i>
29.	The project proponent shall ensure that the stack height is 6 meter more than the highest tower.	<i>Noted.</i>
30.	For disinfection of the treated wastewater ultra-violet radiation or ozonation process should be used.	<i>UV will be used for dis-infection of treated water.</i>
31.	The project proponent shall strive to minimize water in irrigation of landscape by minimizing grass area, using native variety, xeriscaping and mulching, utilizing efficient irrigation system, scheduling irrigation only after checking evapo-transpiration data.	<i>Noted.</i>
32.	The Project Proponent shall use zero ozone depleting potential material in insulation, refrigeration, air-conditioning and adhesive. Project Proponent shall also provide Halon free fire suppression system.	<i>Noted.</i>
33.	Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.	<i>Discharge effluents will be monitored before the release in environment to conform to CPCB norms.</i>
34.	All electric supply exceeding 100 amps, 3 phases shall maintain the power factor between 0.98 lag to 1 at the point of connection.	<i>Noted.</i>
35.	The project proponent shall ensure that the transformer is constructed with high quality grain oriented, low loss silicon steel and virgin electrolyte grade copper. The project proponent shall obtain manufacturer's certificate also for that.	<i>Noted.</i>
36.	The project proponent shall ensure that exit velocity from. The stack should be sufficiently high. Stack shall be designed in such a way that there is no stack down-wash under any meteorological conditions.	<i>Noted. The stack height will be maintained as per the CPCB norms.</i>
37.	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 span project in case of Residential project will continue to apply. The resident welfare association/Housing co-	<i>Noted and agreed.</i>

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	operative societies shall responsible to comply conditions laid down in EC. 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.	
<b>38.</b>	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>Agreed &amp; Noted.</i>
<b>39.</b>	The project propend should intimate to the Authority well before shifting their address of communication.	<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 1 location; one being near the main gate, 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	Near Main gate

#### AAQ-1: Near Main Gate:

The sampler was placed near main gate of building and was free from any obstructions. Surroundings of the sampling site represent 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)

# SOP - As per Laboratory Standard Operating Procedure.

### 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**

S. No.	PARAMETERS	Unit	AAQ1	NAAQS*
1	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	46.36	60
2	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	88.25	100
3	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	36.20	80
4	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.91	80
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.78	4

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

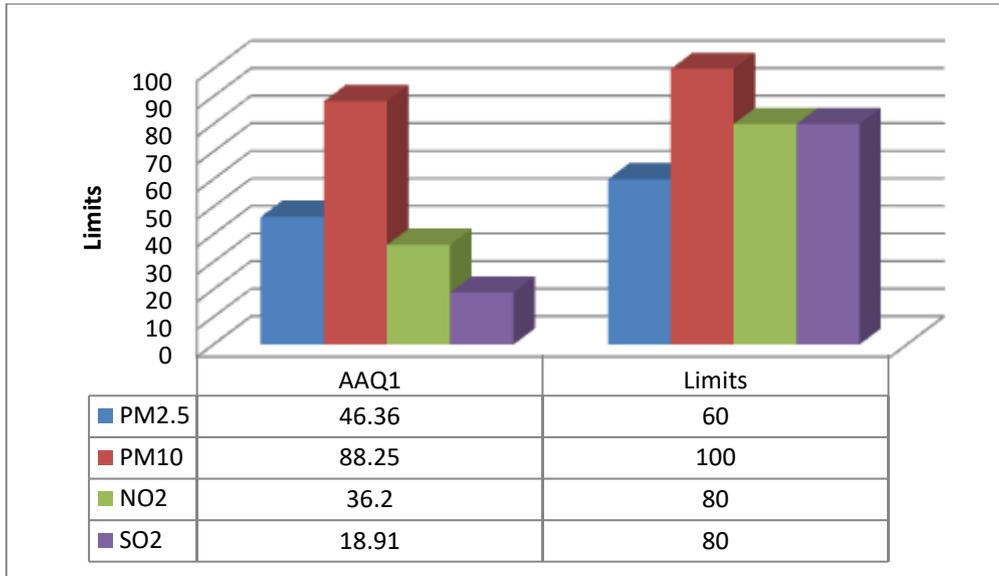


Figure 3.1 Location-wise Variation of Ambient Air Quality

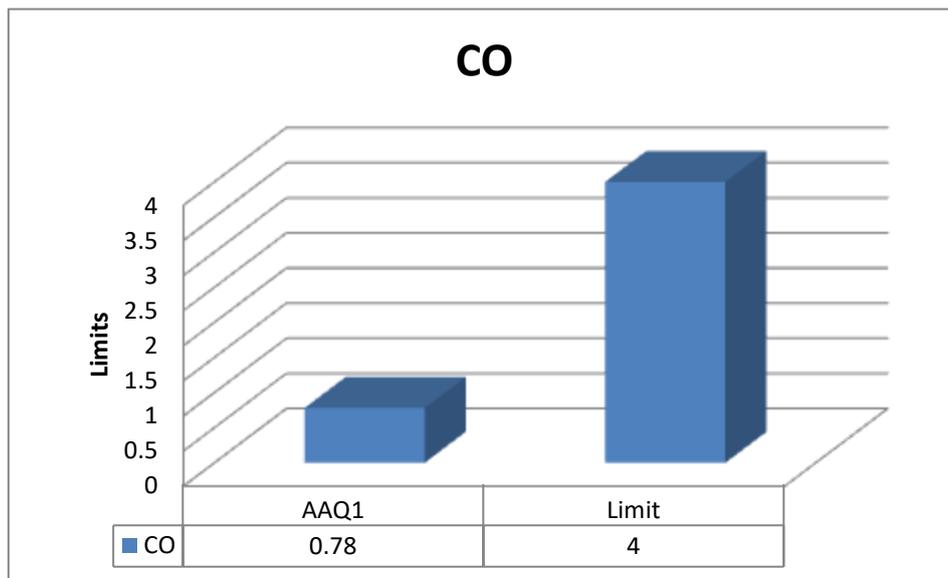


Figure 3.2 Location-wise Variation of CO in Ambient Air Quality

### 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 excess from 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 1 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.	NI	Near Main Gate	Commercial Area

#### 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 2.5 Ambient Noise Monitoring Results**

	Location Code	
	N1	
	Day Time	Night Time
Leq	50.36	41.02
CPCB Limits in dB(A) Leq (Residential Are)	65.00	55.00

### 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. 55db (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.. 45db(A)

### 3.3 WATER QUALITY MONITORING

#### 3.3.1 Drinking 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 3.6**.

**Table3.6 Details of Drinking Water Quality Monitoring Station**

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

#### 3.3.2 Methodology of Drinking Water Quality Monitoring

Sampling of water was carried out on **May 2024** 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 by road 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 3.7**.

### 3.3.3 Drinking Water Quality Monitoring Results

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

**Table 3.7 Drinking Water Quality Monitoring Results**

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -	
					Requirement (Acceptable Limits)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS3025 (P-11)	7.94	--	6.5 to	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	--	Agreeab	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeab	Agreeable
6.	Total Hardness (as	IS3025 (P-21)	78.00	mg/l	200	600
7.	Calcium (as Ca)	IS3025 (P-40)	20.36	mg/l	75	200
8.	Alkalinity (as CaCO <sub>3</sub> )	IS3025 (P-23)	82.5	mg/l	200	600
9.	Chloride (as Cl)	IS 3025 (P-32)	22.34	mg/l	250	1000
10.	Cyanide (as CN)	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No
11.	Magnesium (as Mg)	IS3025 (P-46)	6.58	mg/l	30	100
12.	Total Dissolved	IS3025 (P-16)	116.00	mg/l	500	2000
13.	Sulphate(as SO <sub>4</sub> )	IS3025 (P-24)	7.65	mg/l	200	400
14.	Fluoride (as F)	IS 3025 (P-60)	0.23	mg/l	1.0	1.5
15.	Nitrate (as NO <sub>3</sub> )	IS3025 (P-34)	1.06	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.	Aluminum (as Al)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	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-0.002)	mg/l	0.05	No Relaxation
20.	Phenolic	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
22.	Anionic Detergents	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.2	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

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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	IS 15185	Absent	/100ml	Shall not be detectable in any	
32.	E. coli	IS 15185	Absent	/ 100ml	Shall not be detectable in any	

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

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

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

### 3.3.4 Discussion on 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 **82.5mg/L** at project against desirable limit of 200 mg/L, however, alkalinity is less than the permissible limit of 600 mg/L. Total dissolved solids in the water is **116.00 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 on going 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 on going 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 3.8**.

**Table 3.8 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 **May 2024**.

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-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26)	8.50	--
2.	Conductivity	IS:14767	0.291	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	36.26	%
6.	Bulk density	VEL/STP/EN/59, Issue No.- 01, 01/11/2021	1.48	gm/cc
7.	Chloride as Cl	VEL/STP/EN/69, Issue No.- 01, 01/11/2021	128.06	mg/100g
8.	Calcium as Ca	VEL/STP/EN/72, Issue No.- 01, 01/11/2021	136.14	mg/100g
9.	Sodium as Na	VEL/STP/EN/62, Issue No.- 01, 01/11/2021	145.08	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.- 01, 01/11/2021	136.30	kg/hectare
11.	Organic Matter	IS 2720 (P-22), Titrimetric Method	0.44	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No. 01, 01/11/2021	2.36	mg/100g
13.	Available Nitrogen as N	IS:14684 Distillation Method	11.26	kg/hectare
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.- 01, 01/11/2021	141.25	kg/hectare
15.	Zinc (as Zn)	VEL/STP/HW/03, Issue No.- 01, 01/11/2021	26.31	mg/kg
16.	Manganese (as Mn )	VEL/STP/HW/03, Issue No.- 01, 01/11/2021	15.24	mg/kg
17.	Lead (as Pb)	VEL/STP/HW/03, Issue No.- 01, 01/11/2021	0.94	mg/kg
18.	Cadmium as (Cd )	VEL/STP/HW/03, Issue No.- 01, 01/11/2021	1.32	mg/kg
19.	Chromium (as Cr)	VEL/STP/HW/03, Issue No.- 01, 01/11/2021	BDL (DL- 0.5)	mg/kg
20.	Copper (as Cu )	VEL/STP/HW/03, Issue No.- 01, 01/11/2021	2.20	mg/kg

\*SOP-Laboratory Standard Operating Procedure.

### 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.

### 3.5 Stack Emission Monitoring

**Table 3.10 Details of Stack Monitoring Stations**

S. No.	Location Code	Capacity
1.	DG1	125 KVA
2.	DG2	125 KVA

**Table 3.11 Stack Monitoring Results  
Location- DG1**

S. No.	Parameter	Protocol	Result	Unit	Limits (As Per CPCB)
1.	Particulate Matter (as PM)	IS 11255 (P-1)	0.011	gm/kw-hr	0.02
2.	Oxide of Nitrogen (as NO <sub>x</sub> )	IS 11255 (P-7)	0.205	gm/kw-hr	0.40
3.	Total Hydrocarbon (as HC)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.059	gm/kw-hr	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.61	gm/kw-hr	3.5

**Table 3.12 Stack Monitoring Results  
Location- DG2**

S. No.	Parameter	Protocol	Result	Unit	Limits (As Per CPCB)
1.	Particulate Matter (as PM)	IS 11255 (P-1)	0.014	gm/kw-hr	0.02
2.	Oxide of Nitrogen (as NO <sub>x</sub> )	IS 11255 (P-7)	0.260	gm/kw-hr	0.40
3.	Total Hydrocarbon (as HC)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.094	gm/kw-hr	0.19
4.	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.51	gm/kw-hr	3.5

**3.6 Point Source (DG Noise) Monitoring**

**Table 3.13 Details of Point Source Monitoring Stations**

S. No.	Location Code	Capacity
1.	DG1	125 KVA
2.	DG2	125 KVA

**Table 3.14 DG Noise Monitoring Results**

S. No.	Parameters	Protocol	Result dB(A)		
			Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	Leq	IS-4758	96.8	70.6	26.2
2.	CPCB Limits in dB (*A)	-	--	75.00	25.00

**Table 3.15 DG Noise Monitoring Results**

S. No.	Parameters	Protocol	Result dB(A)		
			Open the Canopy of DG Set Result dB(A)	Close the Canopy of DG Set (0.5 Meter Distance) Result dB(A)	Insertion Loss
1.	Leq	IS-47587	97.4	71.6	25.8
2.	CPCB Limits in dB (*A)	-	--	75.00	25.00

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## Directorate of Town & Country Planning, Haryana

Yojna Bhawan, Plot No. 3, Block-A, Sector 18 A, Madya Marg, Chandigarh,

web site: [tcpharyana.gov.in](http://tcpharyana.gov.in)

Phone: 0172-2549349; E-mail: [tcpharyana7@gmail.com](mailto:tcpharyana7@gmail.com)

Regd.

To

Tanmay Developers Pvt. Ltd. & others,  
C/o Emaar MGF Land Ltd.,  
ECE House, 1st Floor, 28 KG Marg,  
New Delhi-110017.

Memo No. LC-2169/JE(SB)/2023/29710 Dated: 08-09-2023

**Subject:** Renewal of Licence no. 97 of 2010 dated 18.11.2010 granted for setting up of Residential Plotted Colony on the area measuring 106.856 acres falling in the revenue estate of village-Maidawas, Sector-65 & 66, GMUC-Emaar MGF land Ltd.

**Reference:** Your application dated 18.10.2022 & 27.10.2022 on the subject cited above.

Your request for renewal of Licence no. 97 of 2010 dated 18.11.2010 granted for setting up of Residential Plotted Colony on the area measuring 106.856 acres falling in the revenue estate of village-Maidawas, Sector-65 & 66, GMUC has been considered and licence is hereby renewed upto 17.11.2023 on the terms & conditions laid down in the licence and following conditions:

1. This renewal will not tantamount to certification of your satisfactory performance entitling you for further renewal of licence.
2. That you shall clear the outstanding dues of Rs. 11.87 Cr. on account of EDC/IDC as on 27.04.2023 within 60 days from issuance of this letter.
3. You shall transfer the portion of Sector/Master plan road which shall form part of licensed area free of cost to the Government in accordance with the provisions of Section 3(3)(a)(iii) of the Haryana Development and Urban Areas Act, 1975 within the validity of renewal permission.
4. That you shall be bound to adhere to the provisions of Section 3(3) (a)(iv) of Act No. 8 of 1975 as amended from time to time regarding construction/transfer of community sites.
5. That you shall compound the delay of allotment of EWS flats in accordance with the policy dated 16.08.2013.
6. That you shall get the licence renewed till final completion of the colony is granted.

The renewal of license will be void-ab-initio, if any of the conditions mentioned above are not complied with.

  
(T.L. Satyaprakash, IAS)  
Director General,  
Town & Country Planning  
Haryana Chandigarh

Endst no: LC-2169/JE(DS)/2023/

A copy is forwarded to following for information and further necessary action:-

1. Chief Administrator, HSVP, Panchkula.
2. Chief Engineer, HSVP, Panchkula.
3. Chief Account officer of this Directorate.
4. Senior Town Planner, Gurugram.
5. District Town Planner, Gurugram.
6. Nodal Officer (website) for updation on website.

  
(R.S. Balth)  
District Town Planner (HQ)  
For Director General, Town & Country Planning  
Haryana Chandigarh



# 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.hrocmmns.nic.in E-Mail - hspcbho@gmail.com

Telephone No.: 0172-2577870-73



No. HSPCB/Consent/ : 313116321GUNOCTE13937721

Dated:26/07/2021

To.

M/s : M/s Emaar India Limited and developed by M/s Elan City LLP  
Proposed Commercial Colony at Sector- 66, Village- Maidawas, Gurugram, Haryana.  
GURGAON  
122018

## Sub. : Grant of consent to Establish to M/s M/s Emaar India Limited and developed by M/s Elan City LLP

Please refer to your application no. 13937721 received on dated 2021-07-13 in regional office Gurgaon North.

With reference to your above application for consent to establish, M/s M/s Emaar India Limited and developed by M/s Elan City LLP is here by granted consent as per following specification/Terms and conditions.

<b>Consent Under</b>	AIR/WATER
<b>Period of consent</b>	26/07/2021 - 08/07/2028
<b>Industry Type</b>	Building and construction projects having quantity of waste water generation 10 KLD to 100 KLD irrespective of their built-up area
<b>Category</b>	ORANGE
<b>Investment(In Lakh)</b>	14935.0
<b>Total Land Area (Sq. meter)</b>	5916.495
<b>Total Builtup Area (Sq. meter)</b>	24181.36
<b>Quantity of effluent</b>	
1. Trade	0.0 KL/Day
2. Domestic	70.0 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. pH	5.5-9.0
5. O&G	10 mg/l
6. Total Phosphorus	1 mg/l
7. Total Nitrogen	10 mg/l
8. Faecal Coliform (MPN/100ml)	<100
<b>Permissible Trade Effluent Parameters</b>	
1. NA	mg/l
Number of stacks	2
<b>Height of stack</b>	
1. DG set	6.63 Meter (Above roof level)
2. DG set	6.32 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	0.43 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 70 KL/Day i.e 0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 70 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 Management 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 green belt 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 wastewater 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 09.07.2021 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 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 Araval 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.*

**From** Director General  
Fire Service, Haryana Panchkula

**To** **M/s** Elan City LLP  
Village Maidawas Sector 66 Gurugram

**Memo No. FS/2023/36 dated : 13/09/2023**

**Subject : Approval of fire fighting scheme 15 mtrs. and Above from the fire safety point of view for Mixed Occupancy at Village Maidawas, Sector 66, Gurugram meas. 1.462 acres of M/s Elan City LLP :**

Reference your Transaction Id 050262323002642 dated: 23/08/2023 on the subject cited above.

Your case for the approval of fire fighting scheme has been examined by the team of Fire Station Officers, Gurgaon Sector-29, .The means of escape and Fire Protection system were checked and found as per the National Building Code of India, Part- IV guidelines. Therefore your proposed fire fighting scheme is hereby approved as per following detail from the fire safety point of view with the following conditions:-

<b>Tower Name</b>	<b>Floor Detail</b>	<b>Terrace Height of Last Livable Floor(In Meters)</b>	<b>Ground Coverage</b>
01	LG+G to 09	44.750 Mt.	3298.173 Sq. Mt.
<b>Tower Name</b>	<b>Basement Level</b>	<b>Basement Area</b>	<b>Basement Remarks</b>
	Basement- 01	2598.376 Sq. Mt.	-
	Basement- 02	2912.393 Sq. Mt.	-

- 1) The proposed fire fighting scheme is approved as submitted in the building plan subject to the approval of building plan by the competent authority.
- 2) The approval of fire scheme by this office doesn't absolve the firm from his responsibility from all consequences, in case of fire due to any deficiencies or anything left out in the scheme submitted by you.
- 3) Overhead & underground water tanks provided for firefighting shall be so constructed in such a way that the domestic water tank shall filled from overflow of the fire Water tanks.
- 4) As soon as the installations of fire fighting arrangements are completed, the same may be got inspected/ tested and clearance should be obtained from this office.
- 5) If the infringement of Byelaws remains un- noticed the Authority reserves the right to amend the Plans/Fire Fighting Scheme as and when any such infringement comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.
- 6) If you fail to comply with any of the above terms & conditions you will be liable to be punished as per Chapter-III Section 31 Sub-Section 1 & 2 of Fire Act 2009 i.e. imprisonment for a term which may extend to three month or fine which may extend to five thousand rupees or both.
- 7) The staircase shall be made with the specified material enabling it non-slippery.
- 8) The above Fire Fighting Scheme is valid for Five Year from the date of issue of this letter.
- 9) If the gap between ceiling and false ceiling is more than 800 mm then upright sprinkler and detectors above false ceiling & pendent sprinkler below false ceiling shall be installed in the building

**Remarks:- OK**



Deputy Director (Technical)-I,  
for Director General, Fire  
Service, Haryana  
Panchkula

Exercising the power of Director, Fire Services, Haryana

**STRUCTURAL STABILITY CERTIFICATE**

This is to certify that, we have been retained by Elan City LLP, 15th Floor, Two Horizon Centre, DLF Phase 5, Sector-43, Golf Course Road, Gurugram 122002 for Structural Design Consultancy Services for Elan Commercial Project, Sector-66, Gurugram, Haryana.  
In this regard we confirm as follows:-

1. The structural design is in conformity with the provisions of National Building Code, as stipulated by the Bureau of Indian Standards.
2. The Building superstructure and the foundation have been designed for the appropriate seismic loads, all dead loads and live loads, wind pressure etc. In all cases, normal strengthening to resist distress during earthquake have been provided in the designs.
3. The roof slab of extended basement (at ground level) external to the building has been designed to take fire tender load up to 60 MT.
4. The structural analysis and designs have been carried out for seismic Zone – IV as per IS 1893 – 20016, IS 13920 -2016, IS 456 – 2000 & NBC 2016 and IS 16700-2016.

Signature

:



Name of Structural Engineer

:

Col SC Khanna

Qualification

:

M.Tech. (Structures),

Date

:

22<sup>nd</sup> December, 2022





# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

Upon recommendation of the Senate  
hereby confers the Degree of  
Master of Technology

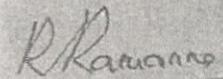
in Civil Engineering with specialization in  
Structural Engineering  
on Suresh Chander Khanna

who has completed the course of studies as prescribed under the  
regulations, passed the Examinations and successfully defended  
his dissertation in July 1978.

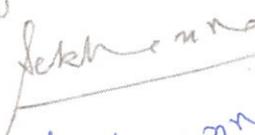
Given this day, under the seal of the Institute at Bombay  
in the Republic of India,  
the 3rd day of October, 1978.

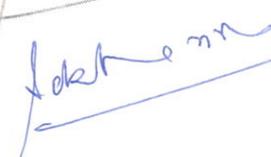
  
Chairman, Senate

  
Registrar

  
Chairman, Board of Governors

Self Attestd







To,

M/s Emaar India Ltd.,  
(Formerly known as Emaar MGF Land Limited)  
C/o Elan City LLP,  
3<sup>rd</sup> Floor, Golf View Corporate Tower,  
Golf Course Road, Sector-42, Gurugram.

Memo No. GMDA/SEW/2021/219

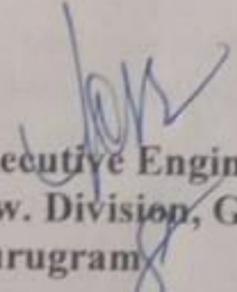
Dated. 23-02-2021

**Sub: -** Assurance for Sewerage Connection for disposal of 75 KLD surplus treated domestic effluent in Master Sewer line after commissioning of proposed Commercial Colony area measuring 1.462 Acres i.e 1.063 Acres under License No. 41 of 2011 dated 03.05.2011 & balance part under License No. 97 of 2010 dated 18.11.2010, in revenue estate of village-Maidawas, Sector-66, Gurugram, Haryana being developed by M/s Emaar India Ltd. (Formerly known as Emaar MGF Land Limited)

**Ref :-** Your office letter on dated 22.02.2021.

In this regard, it is submitted that the Sewerage connection in Master Sewer line for disposal of 75 KLD surplus treated domestic effluent from proposed Commercial Colony area measuring 1.462 Acres i.e 1.063 Acres under License No. 41 of 2011 dated 03.05.2011 & balance part under License No. 97 of 2010 dated 18.11.2010, in revenue estate of village-Maidawas, Sector-66, Gurugram, Haryana being developed by M/s Emaar India Ltd. (Formerly known as Emaar MGF Land Limited) could be given after completion of the Master Sewer line in the area.

The sewerage connection for your above said project for discharge of surplus treated waste water will be accorded after completion of the master sewerage network and as applied by your firm as per GMDA rules.

  
Executive Engineer -V  
Sew. Division, GMDA  
Gurugram

**C.C. :-**

1. The Chief Engineer, Infra -II, GMDA, Gurugram.
2. The Superintending Engineer -III, Infra -II, GMDA, Gurugram.
3. The Head I.T., GMDA, Gurugram.

Annexure-V

From: Divisional Forest Officer,  
Gurgaon, Haryana.

To, **M/s Emaar MGF Land Limited.**  
**Emaar MGF Business Park,**  
**MG Road, Sikandarpur Chowk,**  
**Sector-28, Gurgaon, (HR)-122002**

No: - 26-6

Date:- 2/4/14

**Sub.:** Clarification regarding Applicability of forest laws on Non Forest land Applied by **M/s Emaar MGF Land Limited** land located at Village **Maidawas, Sector-65 & 66 (109.069 Acres)** District- **Gurgaon**.

Applicant **M/s Emaar MGF Land Limited. Emaar MGF Business Park, MG Road, Sikandarpur Chowk, Sector-28, Gurgaon, (HR)-122002** vide letter no. Nil dated **07.02.2013** made a request in connection with land measuring **109.069 Acres** having **Rect. No 2 Killa No. 12, 18/2, 19, 20/2, 21, 22, 23/1 Rect. No 12 Killa No. 1, 2, 3/1, 3/2, 8/1, 8/2, 9, 10, 11min, 13/1, 18, 19, 20/2min, 21min, 22 Rect. No. 13 Killa No. 5/2, 6 Rect. No. 16 Killa No. 6, 7/1, 15, 16, 17, 18, 19/1, 24/2, 25 Rect. No. 17 Killa No. 3min, 4/1min, 4/2min, 5/1min, 6/2min, 7min, 9, 10, 11, 13, 14/1, 14/2min, 15min, 16/1min, 18, 19, 20, 22, 23/1, Rect. No. 18 Killa No. 1, 2, 6, 11/1min, 12/2, 13, 14, 15, 16min, 17, 18, 19min, 20min, 24min, 25min, Rect. No 19 Killa No. 10/1/3, 10/2, 11/1, 19/2min, 20/2min, 21/1, 21/2, 21/3, 22/1/1, 22/1/2, 22/2, 23 Rect. No 32 Killa No. 1, 2/1/1, 2/1/2, 2/1/3, 2/2, 9/1, 9/2, 10/1, 10/2, 11/1, 12/2/1min, 12/2/1min, 12/2/2, Rect. No. 33 Killa No. 6/1, 6/2, 6/3, 6/4, 7, 14, 15, 16, 17min, 18/1/1, 19/1min, 24min, Rect. No. 34 Killa No. 2, 3, 7/2, 8, 9, 10, 14, 17min, 18/1, 22/2min, 23min, 24min, 25, Rect. No 35 Killa No. 3/1, 3/2, 4, 6/1, 7/1, 7/2, 8, 11/1, 11/2, 12, 13, 14, 15/1, 17/2/1, 17/2/2, 18, 19, 20, 21, 22, 23 Rect. No 36 Killa No. 15, 16, 17/2min, 25min, Rect. No. 38 Killa No. 1min, 2min, 9min, 10/2, 11, 12/1, Rect. No 39 Killa No. 2/1min, 2/2min, 3min, 4, 5/1, 6/2, 7, 8/1, 8/2, 8/3, 9/1, 14, 15/1, 16/2, 17, 18, 23/1, 24/1/1, 26, Rect. No. 40 Killa No. 11, 12, 13, 20/1** land located at village **Maidawas Sector-65 & 66** in District Gurgaon. Applicant made a proposal to use this land for **Residential Plotted Colony**, In continuation of report submitted by RFO, **Sohna** vide Letter No. **579-S** dated **26.02.2014** 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 & 5 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 4th January, 2013, whole Revenue Estate of Gurgaon is notified u/s 4 of PLPA 1900 and S.O.81/PA.2/1900/S.3/2012 dated 19th December, 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 Emaar MGF Land Limited** whose land is located at village **Maidawas Sector-65 & 66** 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, 14.5.2008 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.

Date:  
Place. **Gurgaon.**

  
**Divisional Forest Officer,  
Gurgaon.**

Endst.No.

Dated:

A copy is forwarded to:-

1. Conservator of Forests, South Circle, Gurgaon for Kind information.
2. D.G, T.C.P, Ayojana Bhawan, Sec-18, Madhya Marg, Chandigarh for kind information.
3. Dy.Commissioner, Gurgaon for information.& necessary action
4. Guard File.

  
**Divisional Forest Officer,  
Gurgaon.**



## Test Report

Page No. 1/1

Sample Number : VEL/AP/01  
Name & Address of the Party : M/s Elan City LLP.  
Commercial Colony (Retail, Food Court & Office),  
Village Maidawas, Sector-66, Gurugram Haryana.

Report No. : VEL/AP/2406010020  
Format No : 7.8 F-03  
Party Reference No : Nil  
Reporting Date : 05/06/2024  
Period of Analysis : 01/06/2024-05/06/2024  
Receipt Date : 01/06/2024

Name of Sample : AMBIENT AIR  
Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Entry Gate  
Sample Collected By : VEL Representative (Mr. Sudhir)  
Sampling Equipment used : RDS/FPS  
Instrument Code : VEL/RDS/FPS/08  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 30/05/2024 To 31/05/2024  
Time of Monitoring : 12:00 PM To 12:00 PM  
Ambient Temperature (°C) : Min.32°C, Max.45°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS : 5182  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Results	Units	Limit as per NAAQS
Discipline : Chemical					
1	Particulate Matter (as PM -10)	IS:5182 (P-23)	88.25	µg/m <sup>3</sup>	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)	46.36	µg/m <sup>3</sup>	60
3	Nitrogen Dioxides (as NO2)	IS 5182 (P- 6)	36.20	µg/m <sup>3</sup>	80
4	Sulphur Dioxide (as SO2)	IS 5182 (P- 2 )	18.91	µg/m <sup>3</sup>	80
5	#Carbon Monoxide (as CO)	IS 5182 (P-10), NDIR Method	0.78	mg/m <sup>3</sup>	4.0

Note - # indicates 1 hour monitoring of CO.

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

Reviewed By



Authorized Signatory



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## Test Report

Sample Number : VEL/AP/02  
Name & Address of the Party : M/s Elan City LLP.  
Commercial Colony (Retail, Food Court & Office),  
Village Maidawas, Sector-66, Gurugram Haryana.

Report No. : VEL/AP/2406010021  
Format No : 7.8 F-03  
Party Reference No : Nil  
Reporting Date : 05/06/2024  
Period of Analysis : 01/06/2024-05/06/2024  
Receipt Date : 01/06/2024

Name of Sample : AMBIENT NOISE  
Sample Group : Atmospheric Pollution

### General Information

Sampling Location : Entry Gate  
Sample Collected By : VEL Representative (Mr. Sudhir)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/08  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 30/05/2024 To 31/05/2024  
Time of Monitoring : 06:00 AM To 06:00 AM  
Ambient Temperature (°C) : Min.32°C, Max.45°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : CPCB  
Sampling Duration : 24.0 Hours  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Test Results		Units
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
Discipline : Chemical					
1	Leq	I S-9989	50.36	41.02	dB (A)

### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.  
\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

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

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

Reviewed By



Authorized Signatory



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## Test Report

Page No. 1/1

Sample Number : VEL/AP/03  
Name & Address of the Party : M/s Elan City LLP.  
Commercial Colony (Retail, Food Court & Office),  
Village Maidawas, Sector-66, Gurugram Haryana.

Report No. : VEL/AP/2406010022  
Format No : 7.8 F-03  
Party Reference No : Nil  
Reporting Date : 05/06/2024  
Period of Analysis : 01/06/2024-05/06/2024  
Receipt Date : 01/06/2024

Name of Sample : Stack Emission Monitoring  
Sample Group : Atmospheric Pollution

### General Information

Sampling Location : DG Set Area  
Sample Collected By : VEL Representative (Mr. Sudhir)  
Date of Sampling : 30/05/2024  
Sampling duration (Minutes) : 45.0  
Stack attached to : DG Set No.1 (125 KVA)  
Make of stack : MS  
Type of Fuel Used : HSD  
Diameter of stack(m) : 0.10 Mtr.  
Height of stack(m) : 3.14 Mtr.  
Instrument calibration status : Calibrated  
Meteorological Condition : Clear Sky  
Ambient Temperature - Ta (°C) : 40.0  
Temperature of Stack Gases - Ts (°C) : 110.0  
Velocity of Stack Gases (m/sec.) : 7.14  
Flow rate of PM (LPM) : 21.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
Discipline : Chemical					
1	Particulate Matter (as PM)	IS:11255 (P-1)	0.011	gm/kw-hr	0.02
2	Oxide of Nitrogen (as NOx)	IS:11255 (P-7)	0.205	gm/kw-hr	0.40
3	Total Hydrocarbon (as HC)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.059	gm/kw-hr	0.19
4	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.61	gm/kw-hr	3.5

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

Reviewed By



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## Test Report

Page No. 1/1

Sample Number : VEL/AP/04  
 Name & Address of the Party : M/s Elan City LLP.  
 Commercial Colony (Retail, Food Court & Office),  
 Village Maidawas, Sector-66, Gurugram Haryana.

Name of Sample : Stack Emission Monitoring  
 Sample Group : Atmospheric Pollution

Report No. : VEL/AP/2406010023  
 Format No : 7.8 F-03  
 Party Reference No : Nil  
 Reporting Date : 05/06/2024  
 Period of Analysis : 01/06/2024-05/06/2024  
 Receipt Date : 01/06/2024

### General Information

Sampling Location : DG Set Area  
 Sample Collected By : VEL Representative (Mr. Sudhir)  
 Date of Sampling : 30/05/2024  
 Sampling duration (Minutes) : 45.0  
 Stack attached to : DG Set No.2(125 KVA)  
 Make of stack : MS  
 Type of Fuel Used : HSD  
 Diameter of stack(m) : 0.10 Mtr.  
 Height of stack(m) : 3.14 Mtr.  
 Instrument calibration status : Calibrated  
 Meteorological Condition : Clear Sky  
 Ambient Temperature - Ta (°C) : 40.0  
 Temperature of Stack Gases - Ts (°C) : 105.0  
 Velocity of Stack Gases (m/sec.) : 7.05  
 Flow rate of PM (LPM) : 21.0  
 Flow rate of Gas (LPM) : 2.0  
 Sampling condition : Isokinetic  
 Protocol used : IS 11255 & EPA

S.No.	Test Parameters	Test Method	Results	Units	Limits as per CPCB
Discipline : Chemical					
1	Particulate Matter (as PM)	IS:11255 (P-1)	0.014	gm/kw-hr	0.02
2	Oxide of Nitrogen (as NOx)	IS:11255 (P-7)	0.260	gm/kw-hr	0.40
3	Total Hydrocarbon (as HC)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.094	gm/kw-hr	0.19
4	Carbon Monoxide (as CO)	VEL/ENV/STP/ST/FGA/01, Issue No.-01,01/11/21	0.51	gm/kw-hr	3.5

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## Test Report

Page No. 1/1

Sample Number : VEL/AP/05  
Name & Address of the Party : M/s Elan City LLP.  
Commercial Colony (Retail, Food Court & Office),  
Village Maidawas, Sector-66, Gurugram Haryana.

Report No. : VEL/AP/2406010024  
Format No : 7.8 F-03  
Party Reference No : Nil  
Reporting Date : 05/06/2024  
Period of Analysis : 01/06/2024-05/06/2024  
Receipt Date : 01/06/2024

Name of Sample : DG Noise  
Sample Group : Atmospheric Pollution

### General Information

Sampling Location : DG Set No.1 (125 KVA)  
Sample Collected By : VEL Representative (Mr. Sudhir)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/09  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 30/05/2024  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS 4758  
Sampling duration (Minutes) : 45.0  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Open the canopy of DG Set Results dB(A)	Close the canopy of DG Set (1.0 mtr. Distance) Result dB(A)	Insertion Loss
Discipline : Chemical					
1	Leq	IS: 4758	96.8	70.6	26.2
2	CPCB Limit in Leq dB (A)	--	--	75.0 (Max.)	25.0 (Min.)

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## Test Report

Sample Number : VEL/AP/06  
Name & Address of the Party : M/s Elan City LLP.  
Commercial Colony (Retail, Food Court & Office),  
Village Maidawas, Sector-66, Gurugram Haryana.

Report No. : VEL/AP/2406010025  
Format No : 7.8 F-03  
Party Reference No : Nil  
Reporting Date : 05/06/2024  
Period of Analysis : 01/06/2024-05/06/2024  
Receipt Date : 01/06/2024

Name of Sample : DG Noise  
Sample Group : Atmospheric Pollution

### General Information

Sampling Location : DG Set No.2 (125 KVA)  
Sample Collected By : VEL Representative (Mr. Sudhir)  
Sampling Equipment used : Sound Level Meter  
Instrument Code : VEL/SLM/09  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 30/05/2024  
Scope of Monitoring : Regulatory Requirement  
Sampling & Analysis Protocol : IS 4758  
Sampling duration (Minutes) : 45.0  
Parameter Required : As per work order

S.No.	Parameters	Test Method	Open the canopy of DG Set Results dB(A)	Close the canopy of DG Set (1.0 mtr. Distance) Result dB(A)	Insertion Loss
Discipline : Chemical					
1	Leq	IS: 4758	97.4	71.6	25.8
2	CPCB Limit in Leq dB (A)	--	--	75.0 (Max.)	25.0 (Min.)

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## Test Report

Sample Number : VEL/PE/01  
 Name & Address of the Party : M/s Elan City LLP.  
 Commercial Colony (Retail, Food Court & Office),  
 Village Maidawas, Sector-66, Gurugram Haryana.

Name of Sample : SOIL  
 Sample Group : Pollution & Environment  
 Location : Project Site  
 Sample Collected By : VEL Representative (Mr. Sudhir)  
 Environmental Condition : 25±2°C  
 Parameter Required : As per work order  
 Sampling and Analysis Protocol : IS 2720 & USDA

Report No. : VEL/PE/2406010006  
 Format No : 7.8 F-03  
 Party Reference No : Nil  
 Reporting Date : 05/06/2024  
 Period of Analysis : 01/06/2024-05/06/2024  
 Receipt Date : 01/06/2024  
 Sampling Date : 30/05/2024  
 Sampling Quantity : 2.0 Kg  
 Sampling Type : Composite  
 Packing Status : Temp. Sealed

S.No.	Parameters	Test Method	Results	Units
Discipline : Chemical				
1	pH (at 25°C)	IS : 2720 (P-26)	8.50	--
2	Electrical Conductivity	IS :14767	0.291	mS/cm
3	Colour	VEL/STP/EN/67, Issued No.- 01, 01/11/2021	Yellowish Brown	--
4	Water holding capacity	VEL/STP/EN/86, Issued No.- 01, 01/11/2021	36.26	%
5	Bulk density	VEL/STP/EN/59, Issued No.- 01, 01/11/2021	1.48	gm/cc
6	Chloride (as Cl)	VEL/STP/EN/69, Issued No.- 01, 01/11/2021	128.06	mg/kg
7	Calcium (as Ca)	VEL/STP/EN/72, Issued No.- 01, 01/11/2021	136.14	mg/kg
8	Sodium (as Na)	VEL/STP/EN/62, Issued No.- 01, 01/11/2021	145.08	mg/kg
9	Potassium (as K)	VEL/STP/EN/61, Issued No.- 01, 01/11/2021	136.30	mg/kg
10	Organic Matter	IS 2720 (P-22)	0.44	%
11	Magnesium (as Mg)	VEL/STP/EN/72, Issued No.- 01, 01/11/2021	2.36	mg/kg
12	Available Nitrogen (as N)	IS:14684	11.26	kg. /hec.
13	Available Phosphours	VEL/STP/EN/73, Issued No.- 01, 01/11/2021	141.25	kg. /hec.
14	Total Zinc (as Zn)	VEL/STP/HW/03, Issued No.- 01, 01/11/2021	26.31	mg/kg
15	Total Manganese (as Mn)	VEL/STP/HW/03, Issued No.- 01, 01/11/2021	15.24	mg/kg
16	Total Chromium (as Cr)	VEL/STP/HW/03, Issued No.- 01, 01/11/2021	1.32	mg/kg
17	Total Lead (as Pb)	VEL/STP/HW/03, Issued No.- 01, 01/11/2021	0.94	mg/kg
18	Total Cadmium (as Cd)	VEL/STP/HW/03, Issued No.- 01, 01/11/2021	BLQ(LOQ-0.5)	mg/kg

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## Test Report

Page No. 2/2

Sample Number : VEL/PE/01

Report No. : VEL/PE/2406010006

S.No.	Parameters	Test Method	Results	Units
19	Total Copper (as Cu)	VEL/STP/HW/03, Issued No.- 01, 01/11/2021	2.20	mg/kg
20	Soil Texture	VEL/STP/EN/64, Issued No.- 01, 01/11/2021	Sandy loam	--

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

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## Test Report

Page No. 1/3

Sample Number : VEL/W/01  
Name & Address of the Party : M/s Elan City LLP.  
Commercial Colony (Retail, Food Court & Office),  
Village Maidawas, Sector-66, Gurugram Haryana.

Report No. : VEL/W/2406010008  
Format No : 7.8 F 03  
Party Reference No : Nil  
Reporting Date : 06/06/2024  
Period of Analysis : 01/06/2024-06/06/2024  
Receipt Date : 01/06/2024  
Sampling Date : 30/05/2024  
Sampling Quantity : 5.0 Ltr. + 250 ml  
Sampling Type : Grab

Name of Sample : **Drinking Water**  
Sample Group : Water/Residues and contaminants in Water  
Location : Project Site  
Sample Collected by : VEL Representative (Mr. Sudhir)  
Environmental Condition : 25±2°C  
Sampling and Analysis Protocol : APHA & IS

S.No.	Test Parameters	Test Method	Results	Units	Requirement as per IS:10500-2012#	
					Acceptable Limits	Permissible Limits
Discipline : Chemical						
1	pH (at 25°C)	IS 3025 (P-11)	7.94	--	6.5 to 8.5	No Relaxation
2	Colour,max	IS 3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3	Turbidity,max	IS 3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4	Odour	IS 3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5	Taste	IS 3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6	Total Dissolved Solids (at 180°C ± 1°C),max	IS 3025 (P-16)	116.00	mg/L	500	2000
7	Calcium (as Ca),max	IS 3025 (P-40)	20.36	mg/L	75	200
8	Alkalinity (as CaCO3)	IS 3025 (P-23)	82.5	mg/L	200	600
9	Chloride (as Cl),max	IS 3025 (P-32)	22.34	mg/L	250	1000
10	Magnesium (as Mg),max	APHA,3500 Mg B	6.58	mg/L	30	100
11	Total Hardness (as CaCO3),max	IS 3025 (P-21)	78.00	mg/L	200	600
12	Sulphate (as SO4),max	IS 3025 (P-24)	7.65	mg/L	200	400
13	Fluoride (as F),max	APHA 4500 F D	0.23	mg/L	1.0	1.5
14	Nitrate (as NO3),max	IS: 3025(P-34) Chromotropic Method	1.06	mg/L	45.0	No Relaxation
15	Iron (as Fe),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L	1.0	No Relaxation
16	Aluminium (as Al),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.05)	mg/L	0.03	0.2

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## Test Report

Sample Number : VEL/W/01

Report No. : VEL/W/2406010008

S.No.	Test Parameters	Test Method	Results	Units	Requirement as per IS:10500-2012#	
					Acceptable Limits	Permissible Limits
17	Boron (as B),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.5	2.4
18	Total Chromium (as Cr),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	No Relaxation
19	Phenolic Compounds (C6H5OH),max	IS 3025 (P-43)	BLQ(LOQ-0.005)	mg/L	0.001	0.002
20	Mineral Oil,max	IS:3025 (P-39)	BLQ(LOQ-0.1)	mg/L	1.0	No Relaxation
21	Anionic Detergents (as MBAS),max	IS 3025(Part-68)	BLQ(LOQ-0.05)	mg/L	0.2	1.0
22	Zinc (as Zn),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L	5.0	15.0
23	Copper (as Cu),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.02)	mg/L	0.05	1.5
24	Manganese (as Mn),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.1	0.3
25	Selenium (as Se),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.01)	mg/L	0.01	No Relaxation
26	Cadmium (as Cd),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.02)	mg/L	0.003	No Relaxation
27	Lead (as Pb),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.02)	mg/L	0.01	No Relaxation
28	Cyanide (as CN),max	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/L	0.05	No Relaxation
29	Arsenic (as As),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.05)	mg/L	0.01	No Relaxation
30	Mercury (as Hg),max	VEL/STP/ICP/W-01, Issue No. -01, Issue date 01/11/2021	BLQ(LOQ-0.005)	mg/L	0.001	No Relaxation

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## Test Report

Sample Number : VEL/W/01

Report No. : VEL/W/2406010008

S.No.	Test Parameters	Test Method	Results	Units	Requirement as per IS:10500-2012#	
					Acceptable Limits	Permissible Limits
Discipline : Biological						
31	Total Coliform	IS 15185	Absent	/100 ml	Shall not be detectable in any 100 ml sample	--
32	E.coli	IS 15185	Absent	/100 ml	Shall not be detectable in any 100 ml sample	--

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

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## **GREEN RATING FOR INTEGRATED HABITAT ASSESSMENT**

*Elan Empire, Sector 66, Gurugram, Commercial Colony Vide Licence No. 97  
of 2010 Dated 18.11.2010 & Licence No. 41 of 2011 Dated 03.05.2011 (Commercial – 1)*

*has been awarded with a*

**'Four Star'**

*rating under*

**GRIHA Pre-Certification**



*Date of Issue: 23<sup>rd</sup> February 2021*

  
Chief Executive Officer  
GRIHA Council

Note : Precertification has been awarded based on documentation provided by project team in compliance with the requirements of GRIHA. Any change in the specifications shall be intimated to GRIHA Council. Pre-certification is valid only as per report attached with subsequent compliance to GRIHA.