

# EMAAR

INDIA

Date: 15.05.2021

**Dr. Vimal Kumar Hatwal**  
**Joint Director**  
**Ministry of Environment, Forests & Climate Change**  
**Northern Regional Office**  
**Bays No. 24-25, Sector 31-A**  
**Dakshin Marg, Chandigarh-160030**

Subject: Construction of proposed Commercial Colony (3.833 Acres) at Village Virendra Gram, Sikandarpur Ghosi, Sector-26, Gurgaon, Haryana by M/s Emaar India Limited – Submission of Six-monthly Compliance Report – June 2021.

Ref.: Environment Clearance Letter No. SEIAA/HR/2013/476 dated 12.07.2013.

Dear Sir,

With regards to the above-mentioned subject and reference, we are hereby submitting soft copy of six-monthly Compliance Report for the proposed Commercial Colony (3.833 Acres) for **June 2021**.

Thanking You

**For M/S EMAAR INDIA LIMITED**



**(Authorized Signatory)**

**Encl:** As stated

- CC:**
1. State Environmental Impact Assessment Authority, Bay No. 55-58, Paryatan Bhawan, Sector-2, Panchkula, Haryana – 134 151.
  2. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana – 134 109.

EMAAR MGF LAND LIMITED

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**SIX MONTHLY REPORT**


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**Status of Environmental Clearance**

**Project Name: Construction of Proposed Commercial Colony Project at Village Virendra Gram, Sikandarpur Ghosi, Sector-26, Gurgaon, Haryana**

**Environmental Clearance No.: No. SEIAA/HR/2013/476, dated 12<sup>th</sup> July 2013**

**Part A: Specific Conditions**

**I. Construction Phase: The project has obtained Occupation Certificate for the complete project on 11.09.2019, hence construction phase is not applicable.**

<b>S.No.</b>	<b>Specific Condition</b>	<b>Status</b>
1	"Consent for Establish" shall be obtained from Haryana State Pollution Control Board under Air and Water Act and a copy shall be submitted to the SEIAA, Haryana before the start of any construction work at site.	Consent to Establish for the project has been obtained vide letter No. HSPCB/Consent/: 2821214GUNOCTE174140 dated 03/01/2014 from Haryana State Pollution Control Board. Recent Consent to Establish valid till 11.07.2020 has already been submitted with previous compliance report.
2	A First Aid Room as proposed in project report will be provided both during construction and operation of the project.	First Aid facility was provided at Project site and the same is being maintained in operation phase also.
3	Adequate drinking water & sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. Open defecation by laboures is strictly prohibited. The safe disposal of wastewater & solid wastes generated during construction phase should be ensured.	Potable water and sanitary facilities including mobile toilets were maintained at project site. Wastewater & solid wastes generated during construction phase was being disposed off safely. HUDA water through tanker is used for construction. Drinking water analysis is enclosed as <b>Annexure 1</b>
4	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Topsoil excavated during construction phase has being used for landscaping purpose at site.
5	The project proponent shall ensure that the building material required during construction phase is properly stored within the project area and disposal of construction waste should not create	Building material required during construction were stored at designated place. All

	any adverse effect on neighboring communities & should be disposed-off taking necessary precautions for general safety & health aspects of people, only in approved sites with the approval of competent authority.	the necessary action were taken while disposing construction waste to prevent any adverse effect.
6	Construction spoils including bituminous material & other hazardous materials must not be allowed to contaminate watercourse & dump sites for such material must be secured so that they should not leach into groundwater, and any hazardous waste generated during construction phase should be disposed off as per applicable rules & norms with necessary approval of the HSPCB.	Waste oil from DG sets was only hazardous waste generated at present & was being stored in earmarked area. Soil analysis reports is enclosed as <b>Annexure 2</b>
7	The diesel generator sets to be used during construction phase should be of ultra low sulphur diesel type & should conform to Environment (Protection) Rules prescribed for air & noise emission standards.	Low sulphur diesel was being used to run Diesel generator sets with proper acoustic enclosure. Copy of report for DG stack emission and DG noise is attached as <b>Annexure 3 &amp; Annexure 4</b> .
8	The diesel required for operating DG Sets shall be stored in underground tanks & if required, clearance from Chief Controller of Explosives shall be taken.	Adequate provision is made for storage of diesel. Permission from Chief Controller of Explosives has been obtained
9	Ambient noise levels should conform to residential standards both during day & night. Incremental pollution loads on ambient air and noise quality should be closely monitored during construction phase. Adequate measure should be taken to reduce ambient air & noise level during construction phase, so as to conform to stipulated residential standards.	Ambient air and noise level monitoring is carried out at project site. Copy of reports is attached as <b>Annexure 5 &amp; Annexure 6</b> , respectively.
10	Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September 1999 & amended as on 27th August.2003.	Fly ash based ready mix concrete was being utilized for construction.
11	Storm water control and its reuse as per CGWB and BIS standards for various applications should be ensured.	Storm water was channelized through storm drainage system and will be reused and controlled as per CGWB norms.
12	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents & other best practices.	Best practices adopted to reduce water demand.
13	In view of the severe constrains 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 provides indicating source of water supply and quantity of water with details of intended use of water - potable and non-potable. 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.	Potable and non-potable water for the project is being taken from GMDA for which permission has already been shared with previous compliance report.
14	Roof should meet prescriptive requirement as per Energy	Energy conservation measures

	Conservation Building Code by using appropriate thermal insulation material.	is being adopted.
15	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is desirable for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Optimum window sizes and openings provided on external face of the building. Window to wall ratio WWR 0.3 - 0.4. Glass surfaces protected by overhangs.
16	The approval of competent authority shall be obtained for structural safety of the building on account of earthquake, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightening etc. If any forest land is involved in proposed site, clearance under Forest Conservation Act shall be obtained from the Competent Authority.	Necessary approvals have been obtained from Town and Country Planning Dept. for structural safety. No forest land is involved in the proposed project. Hence clearance from Forest Dept. under Forest Conservation Act is not required. Fire safety scheme approval for the project obtained and submitted. Clearance from Forest Department has already been submitted.
17	Overexploited groundwater and impending severe shortage of water supply in the region requires the developer to redraw the water and energy conservation plan. Developer shall reduce the overall footprint of the project development. Project proponent shall incorporate water efficiency/savings measures as well as water reuse/recycling within 3 months and before start of construction to the SEIAA, Haryana and RO, MoEF, GOI, Chandigarh.	For construction purpose treated wastewater from designated location by HUDA was utilized. Water efficient fixtures is being used in plumbing works as saving measures during operational phase. Dual plumbing system is being adopted for reuse of recycled water; details submitted with project EIA report.
18	The Project proponent shall construct 04 nos. rainwater harvesting pits for recharging the groundwater within the project premises. Rainwater harvesting pits shall be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and persons responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RWH pit.	The same is being adhered. Rainwater harvesting permission has already been submitted.
19	The project proponent shall provide minimum one hydraulic ladder of sufficient length for escape of people in case of fire.	The same is being adhered.
20	The Project Proponent shall submit assurance from the DHBVN for supply of 3215 KVA of power supply before the start of construction. In no case project will be operational solely on generators without any power supply from any external power	DHVBVN has sanctioned 1 MVA load for which formal intimation is awaited.

	utility.	
21	Detail calculation of power load and ultimate power load of the project shall be submitted to DHBVN under intimation to SEIAA Haryana before the start of construction. Provisions shall be made for electrical infrastructure in the project area.	The same has been adhered.
22	The Project Proponent shall obtain NOC from nearest fire station before the start of construction.	Fire safety scheme approval for the project obtained and has been submitted with previous compliance report.
23	The Project Proponent shall not raise any construction in the natural land depression I Nallah/water course and shall ensure that the natural flow from the Nallah/water course is not obstructed.	The same has been adhered.
24	The Project Proponent shall keep the plinth level of the building blocks sufficiently above the level of the approach road to the Project as per prescribed by-laws. Levels of the other areas in the Projects shall also be kept suitably so as to avoid flooding.	The same has been adhered.
25	Construction shall be carried out so that density of population does not exceed norms approved by Director General Town and Country Department Haryana.	The same has been adhered.
26	The Project Proponent shall submit an affidavit with the declaration that ground water will not be used for construction and only treated water should be used for construction.	Has already been submitted
27	The project proponent shall not cut any existing tree and project landscaping plan should be modified to include those trees in green area.	The same has been adhered.
28	The project proponent shall ensure that ECBC norms for composite climate zone are met. In particular building envelope, HVAC service, water heating, pumping, lighting and electrical infrastructure must meet ECBC norms.	The same has been adhered.
29	The project proponent shall provide 3 meter high barricade around the project area, dust screen for every floor above the ground, proper sprinkling and covering of stored material to restrict dust and air pollution during construction.	The same has been adhered.
30	The project proponent shall construct a sedimentation basin in the lower level of the project site to trap pollutant and other wastes during rains.	The same has been adhered.
31	The project proponent shall provide proper Rasta of proper width and proper strength for each project before the start of construction.	The same has been adhered.
32	Vertical fenestration shall not exceed 40% of total wall area.	The same has been adhered.
33	The project proponent shall ensure that the U-value of the glass is less than 3.177 and maximum solar heat gain co-efficient is 0.25 for vertical fenestration.	The same has been adhered.
34	The project proponent shall provide all the safety measures for the workers during construction of high rise building.	The same has been adhered.

35	The project proponent shall submit NOC from Airport Authority regarding height clearance before the start of construction.	Copy of NOC from AAI already submitted.
36	The project proponent shall adequately control construction dusts like silica dust, non-silica dust, wood dust. Such dusts shall not spread outside project premises. Project Proponent shall provide respiratory protective equipment to all construction workers.	The same has been adhered.
37	The project proponent shall provide one refuse area till 24 meter, one till 39 meter and one each after 15 meters as per National Building Code.	The same has been adhered.
38	The project proponent shall provide fire control room and fire officer for building above 30 meter as per National Building Code.	The same has been adhered.
39	The project proponent shall obtain permission of Mines and Geology Department for excavation of soil before the start of construction.	Permission for excavation of soil obtained from Mines and Geology Dept. and already submitted.
40	The project proponent shall provide helipad facility as required under NBC norms and shall seek permission of helipad from AAI accordingly.	The same is not applicable as height is less.
41	The project proponent shall submit proper certificate regarding non-applicability of Aravali Notification before the start of construction.	Copy of Aravalli NOC through DC has already been submitted with previous compliance report.
42	The project proponent shall use only treated water for cooling and shall submit revised water balance diagram.	Being commercial project, the treated wastewater will be exhausted in flushing & gardening water requirement, therefore for the cooling makeup water partly fresh water will be utilized.
43	The project proponent shall submit an affidavit to the effect that no violation of any laws/rules of Govt. of India/State Govt. or its enforcing authority have been done and no litigation or action has been initiated or is pending against the project proponent in respect of the land in which the project is to be set up before the start of construction or sale of property.	Affidavit already submitted.

## II. Operation Phase

S.No.	Specific Condition	Status
a	"Consent to Operate" shall be obtained from Haryana State Pollution Control Board under Air & Water Act and copy shall be submitted to SEIAA, Haryana.	Consent to Operate has been obtained and the latest copy has been submitted with previous compliance report.
b	The Sewage Treatment Plant (STP) shall be installed for treatment of sewage to the prescribed standards including odour & treated effluent shall be recycled. The installation of STP should be certified by an independent expert and a report in this regard	The same is being adhered. Latest STP analysis report is enclosed as <b>Annexure 7</b>

	should be submitted to the SEIAA, Haryana before the project is commissioned for operation. Tertiary treatment of wastewater is mandatory. Discharge of treated sewage shall conform to the norms and standards of HSPCB, Panchkula. Project Proponent shall implement such STP technology which does not require filter backwash.	
c	Separation of grey & black water should be done by use of dual plumbing line. Treatment of 100% gray water by decentralized treatment should be done ensuring that the re-circulated water should have BOD level less than 10 mg/litre & the recycled water will be used for flushing, gardening & DG set cooling etc.	The same is being adhered.
d	For disinfections of treated wastewater ultra-violet radiation or ozonization process should be used.	Ultraviolet radiation is used for disinfection.
e	The solid waste generated should be properly collected & segregated. Bio-degradable waste should be decomposed at site and dry/inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.	We are in process of installing Organic Waste Converter.
f	Diesel power generating sets proposed as source of back-up power for lifts, common area illumination & for domestic use should be of enclosed type & conform to rules made under Environment (Protection) Act 1986. The location of DG Sets should be in the basement as promised by the project proponent with appropriate stack height i.e. above the roof level as per the CPCB norms. The diesel used for DG sets should be ultra low sulphur diesel (0.05% sulphur), instead of low sulphur diesel.	The same is being adhered.
g	Ambient noise level should be controlled to ensure that it does not exceed the prescribed standards both within & at the boundary of the proposed residential complex.	The same is being adhered.
h	The project proponent should maintain at least 32.05% as green cover area for tree plantation especially all-around periphery of the project & on road sides preferably with local species which can provide protection against noise & suspended particulates matter. The open spaces inside the project should be preferably landscaped & covered with vegetation/grass, herbs & shrubs. Only locally available plant species shall be used.	The same is being adhered.
i	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.	The same is being adhered.
j	Rainwater harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging surface run-off, pre-treatment through sedimentation tanks must be done to remove suspended matter, oil & grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table. Care shall be taken that contaminated water do not enter any RWH pit. The project proponent shall avoid rain water harvesting of first 10 minutes of rain fall. Roof top of	The same is being adhered.

	the building shall be without any toxic material or paint which can contaminate rainwater. Wire mesh and filters should be used wherever required.	
k	The ground water level & its quality should be monitored regularly in consultation with Central Ground Water Authority.	The same is not applicable as project does not have any borewell.
l	There should be no traffic congestion near entry & exit points from the roads adjoining the proposed project site. Parking should be fully internalized, and no public space should be utilized.	The same is being adhered.
m	A report on energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to SEIAA, Haryana in three months time.	R & U factors of building materials submitted to SEIAA
n	Energy conservation measures like installation of LED for lighting the areas outside the building should be integral part of project design & should be in place before project commissioning. Use of solar panels must be adapted to the maximum extent possible for energy conservation.	The same is being adhered. LED is used for lighting and solar panel is used for street lighting.
o	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.	The same is being adhered.
p	The solid waste generated should be properly collected & segregated as per the requirement of the MSW Rules, 2000 & as amended from time to time. The bio-degradable waste should be treated by appropriate technology at the site earmarked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	The same will be adhered.
q	The provision of Solar water heating system shall be as per norms specified by HAREDA & shall be made operational in each building block.	Decentralized power generation has been adopted.
r	The traffic plan & parking plan proposed by the PP should be adhered to meticulously with further scope of additional parking for future requirement. There should be no traffic congestion near the entry & exit points from the roads adjoining the proposed project site. Parking should be fully internalized & no public space should be used.	The same is being adhered.
s	The project shall be operationalized only when HUDA/local authority will provide domestic water supply system in the area.	The water connection from GMDA has already been applied.
t	Operation and maintenance of STP, solid waste management and electrical Infrastructure, pollution control measures shall be ensured even after the completion of sale.	The same is being adhered.
u	Different type of wastes should be disposed off as per provisions of municipal solid waste, biomedical waste, hazardous waste, e-waste, batteries & plastic rules made under Environment	The same is being adhered.



	Protection Act, 1986. Particularly E-waste and Battery waste shall be disposed of as per existing E-waste Management Rules 2011 and Batteries Management Rules 2001. The project proponent should maintain a collection center for E-waste, and it should be disposed of to only registered and authorized dismantler / recycler.	
v	Standards for discharge of environmental pollutants as enshrined in various schedules of rule 3 of Environment Protection Rule 1986 shall be strictly complied with.	The same is being adhered.
w	The project proponent shall make provision of guard pond and other provisions for safety against failure in the operation of wastewater treatment facilities. The project proponent shall also identify acceptable outfall for treated effluent.	The same is being adhered.
x	The project proponent shall ensure that the stack height of DG sets is as per the CPCB guidelines and ensure that the emission standards of noise and air are within the CPCB prescribed limits. Noise and Emission level of DG sets greater than 800 KVA shall be as per CPCB latest standards for high-capacity DG sets.	The same is being adhered. DG stack and noise emission report is enclosed as <b>Annexure 3 &amp; Annexure 4</b> , respectively.
y	All electric supply exceeding 100-amp, 3 phases shall maintain the power factor between 0.98 lag to 1 at the point of connection.	The same is being adhered.
z	The project proponent shall minimize heat island effect through shading and reflective or pervious surface instead of hard surface.	The same is being adhered.
aa	The project proponent shall use only treated water instead of fresh water for DG cooling. The Project Proponent shall also use evaporative cooling technology and double stage cooling system for HVAC to reduce water consumption. Further temperature, relative humidity during summer and winter seasons should be kept at optimal level. Variable speed drive, best Co-efficient of Performance, as well as optimal integrated point load value and minimum outside fresh air supply may be resorted for conservation of power and water. Coil type cooling DG Sets shall be used for saving cooling water consumption for water cooled DG Sets.	The same is being adhered.
ab	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.	The same is being adhered.
ac	Water supply shall be metered among different utilities.	The same is being adhered.
ad	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-water under any meteorological conditions.	The same is being adhered.

### Part B: General Conditions

S.No.	General Condition	Status
i	The Project Proponent shall ensure the commitment 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	Noted

S.No.	General Condition	Status
	complied with in letter & spirit. In case of contradiction between two or more documents on any point, the most environmentally friendly commitment on the point shall be taken as commitment by project proponent.	
ii	Six monthly compliance reports should be submitted to HSPCB and Regional Office, MoEF, GOI Northern Region, Chandigarh, and a copy to the SEIAA, Haryana.	Six monthly report is being submitted to Regional Office, MoEF, and copy to HSPCB, and SEIAA Haryana.
iii	Noise, STP outlet and stack emission shall be monitored daily. Other environmental parameters shall be monitored on monthly basis. After every 3 (three) months, the project proponent shall conduct environmental audit and shall take corrective measure, if required, without delay.	Noted
iv	The SEIAA Haryana reserves the right to add additional safeguard measures subsequently, if found necessary. Environmental Clearance granted will be revoked if it is found that false information has been given for getting approval of this project. SEIAA reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF.	Noted
v	The Project proponent shall not violate any judicial orders/pronouncements issued by any Court/Tribunal.	Noted
vi	All other statutory clearances such as approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972, Forest Act, 1927, PLPA,1900, etc. shall be obtained, as applicable by project proponents from the respective authorities prior to construction of the project.	Permission from Airport Authority, NOC through DC, and Consent to Establish NOC from HSPCB have been obtained and submitted.
vii	The Project proponent should inform the public that the project has been accorded Environment Clearance by the SEIAA and copies of the clearance letter are available with the Haryana State Pollution Control Board & SEIAA. This should be advertised within 7 days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region and the copy of the same should be forwarded to SEIAA Haryana. A copy of Environment Clearance conditions shall also be put on project proponent's web site for public awareness.	Copy of public notice published in newspaper already been submitted.
viii	Under the provisions 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.	Noted
ix	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

S.No.	General Condition	Status
x	The project proponent shall put in place Corporate Environment Policy as mentioned in MoEF, GOI OM No. J-11013/41/2006-IA II (I) dated 26.4.2012 within 3 months period. Latest Corporate Environment Policy should be submitted to SEIAA within 3 months of issuance of this letter.	Corporate Environment Policy already submitted.
xi	The fund ear-marked for environment protection measures should be kept in separate account and should not be diverted for other purposes and year wise expenditure shall be reported to the SEIAA/RO MOEF GOI under rules prescribed for Environment Audit.	Noted.
xii	The project proponent shall obtain NOC under Aravalli Notification from CEC of Hon'ble Supreme court regarding coverage under Aravalli Notification before start of construction.	Copy of Aravalli NOC obtained through DC already submitted.
xiii	The Project Proponent shall ensure that no vehicle during construction/operation phase enter the project premises without valid 'Pollution Under Control' certificate from competent Authority.	The same is being adhered
xiv	The project proponent is responsible for compliance of all conditions in Environmental Clearance letter and project proponent can not absolve himself /herself of the responsibility by shifting it to any contractor engaged by project proponent.	Noted
xv	The project proponent shall seek fresh Environmental clearance if at any stage there is change in the planning of the proposed project.	Noted



# Vardan EnviroLab

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

## Test Report

<b>Sample Number:</b>	VEL/CT/W/01	<b>Report No.:</b>	VEL/W/2104/06/001
<b>Name &amp; Address of Project:</b>	M/s Capital Tower – 01 Village-Sikanderpur Gosi, Sector – 26, Gurgaon, Haryana.	<b>Format No.:</b>	7.8 F-01
<b>Sample Description:</b>	Drinking Water Sample	<b>Party Reference No.:</b>	NIL
<b>Sampling Location:</b>	B - 1	<b>Reporting Date:</b>	12/04/2021
<b>Sample Collected by:</b>	Vardan EnviroLab Representative	<b>Period of Analysis:</b>	06/04/2021 to 12/04/2021
<b>Sampling &amp; Analysis Protocol:</b>	APIHA & IS	<b>Receipt Date:</b>	06/04/2021
		<b>Sampling Date:</b>	05/04/2021
		<b>Type of Sampling:</b>	Grab
		<b>Sampling Quantity:</b>	5 L+250 ml
		<b>Preservation:</b>	Refrigerated

S. No.	Parameter	Test-Method	Result	Unit	Requirement as per IS:10500 -2012#	
					Acceptable Limits	Permissible Limits
1.	pH (at 25 °C)	APHA ,4500-H' B Electrometric Method	7.38	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 1.0 Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 1.0 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	74.62	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	16.24	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	78.44	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl' B, Argentometric Method	9.50	mg/l	250	1000
10.	Cyanide as CN	IS:3025 (P-27)	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	8.28	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	125.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	4.56	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F' D, SPADNS Method	*BDL(**DL 0.2 mg/l)	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotopic Method	*BDL(**DL 1.0 mg/l)	mg/l	45	No Relaxation
16.	Iron as Fe	IS 3025 (Part-65)	*BDL(**DL 0.01 mg/l)	mg/l	1.0	No relaxation
17.	Aluminium as Al	IS 3025 (Part-65)	*BDL(**DL 0.002 mg/l)	mg/l	0.03	0.2
18.	Boron	IS 3025 (Part-65)	*BDL(**DL 0.01 mg/l)	mg/l	0.5	2.4
19.	Total Chromium as Cr	IS 3025 (Part-65)	*BDL(**DL 0.002 mg/l)	mg/l	0.05	No Relaxation

**KANISHKA SHARMA**  
(Tested By)  
Lab Analyst

**ADITI NAYAK**  
(Checked By)  
Analyst

**Dr. S. S. SINGH**  
(Approved By)  
Authorized Signatory

Note: Terms & conditions refer on backside of test report.

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





# Vardan EnviroLab

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

## Test Report

Sample No.: VEL/CT/W/01

Report No: VEL/W/2104/06/001

S. No	Parameter	Test-Method	Result	Unit	Requirement as per IS:10500 -2012#	
					Acceptable Limits	Permissible Limits
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.0004 mg/l)	mg/l	0.001	0.002
21.	Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.05mg/l)	mg/l	0.5	No Relaxation
22.	Anionic Detergents as MBAS	Anex K, IS 13428/IS 3025 (P-68)	*BDL(**DL 0.05 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	IS 3025 (Part-65)	*BDL(**DL 0.01 mg/l)	mg/l	5	15
24.	Copper as Cu	IS 3025 (Part-65)	*BDL(**DL 0.002 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	IS 3025 (Part-65)	*BDL(**DL 0.01 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	IS 3025 (Part-65)	*BDL(**DL 0.002 mg/l)	mg/l	0.003	No Relaxation
27.	Lead as Pb	IS 3025 (Part-65)	*BDL(**DL 0.002 mg/l)	mg/l	0.01	No Relaxation
28.	Selenium as Se	IS 3025 (Part-65)	*BDL(**DL 0.001 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	IS 3025 (Part-65)	*BDL(**DL 0.005 mg/l)	mg/l	0.01	No Relaxation
30.	Mercury as Hg	IS 3025 (Part-65)	*BDL (**DL 0.0005 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185:2002(RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 15185:2002 (RA- 2016)	Absent	/100ml	Shall not be detectable in any 100 ml sample	

Note: - This Report Complies as per IS 105000:2012 Amendment No.2 Sept.2018

\*BDL-Below Detection Limit, \*\*DL- Detection Limit

*(Signature)*  
**KANCHAN SHARMA**  
(Tested By)

*(Signature)*  
**Dr. Shiv Prakash**  
(Checked By)

*(Signature)*  
**Dr. Shiv Prakash**  
(Approved By)

Note: Terms & conditions refer on backside of test report.

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# Vardan Envirolab

ANNEXURE 2

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

## Test Report

**Sample Number:** VEL/CT/S/01 **Report No.:** VEL/S/2104/06/001  
**Name & Address of Party:** M/s Capital Tower – 01 **Format No.:** 7.8 F-01  
**Party:** Village-Sikanderpur Gosi, Sector – 26, **Party Reference No.:** NIL  
**Gurgaon, Haryana.** **Reporting Date:** 10/04/2021  
**Period of Analysis:** 06/04/2021 to 10/04/2021  
**Sample Description:** Soil Sample **Receipt Date :** 06/04/2021  
**Sampling Location:** Near Main Gate **Sampling Date:** 05/04/2021  
**Packing Status:** Temp Sealed **Type of Sampling:** Composite  
**Sampling & Analysis Protocol:** IS 2720 & SOP **Sampling Quantity:** 2.0 Kg

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	7.58	--
2.	Conductivity	IS:14767 by Conductivity meter	0.416	mS/cm
3.	Color	*SOP , SP-78,Issue No.-01& Issue Date-14/02/2013	Yellowish Brown	--
4.	Water holding capacity	*SOP , SP-81,Issue No.-01& Issue Date-14/02/2013	30.60	%
5.	Bulk density	*SOP , SP-80,Issue No.-01& Issue Date-14/02/2013	1.31	gm/cc
6.	Chloride as Cl	*SOP , SP-85,Issue No.-01& Issue Date-14/02/2013	35.32	mg/100g
7.	Calcium as Ca	*SOP , SP-82,Issue No.-01& Issue Date-14/02/2013	36.31	mg/100g
8.	Sodium as Na	*SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	48.31	mg/kg
9.	Potassium as K	*SOP , SP-84,Issue No.-01& Issue Date-14/02/2013	136.31	kg/hect.
10.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.56	%
11.	Magnesium as Mg	*SOP , SP-83,Issue No.-01& Issue Date-14/02/2013	25.61	mg/100g
12.	Available Nitrogen as N	IS:14684 Distillation Method	201.34	kg./hect.
13.	Available Phosphorus	*SOP , SP-86,Issue No.-01& Issue Date-14/02/2013	19.58	kg./hect.
14.	Zinc (as Zn)	USEPA 3050B	14.82	mg/kg
15.	Manganese (as Mn )	USEPA 3050B	8.46	mg/kg
16.	Lead (as Pb)	USEPA 3050B	1.32	mg/kg
17.	Cadmium (as Cd )	USEPA 3050B	0.83	mg/kg
18.	Chromium (as Cr)	USEPA 3050B	0.86	mg/kg
19.	Copper (as Cu )	USEPA 3050B	3.51	mg/kg
20.	Soil Texture	*SOP , SP-87,Issue No.-01& Issue Date-14/02/2013	Silty Loam	--

\*SOP-Laboratory standard operating procedure.

  
KANCHAN SHARMA  
Jr. Lab Analyst



Note: Terms & conditions refer on backside of test report.

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# Vardan Envirolab

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

## Test Report

**Sample Number:** VEL/CT/ST/01 **Report No.:** VEL/ST/2104/06/001  
**Name & address of the Project:** M/s Capital Tower – 01 **Format No.:** 7.8 F-01  
 Village-Sikanderpur Gosi, Sector – 26, **Party Reference No.:** NIL  
 Gurgaon, Haryana. **Reporting Date:** 10/04/2021  
**Period of Analysis:** 06/04/2021 to 10/04/2021  
**Receipt Date:** 06/04/2021

**Sample Description :** Stack Emission Monitoring

Sample Collected by : Vardan Envirolab Representative  
 Date of Monitoring : 05/04/2021  
 Sampling Location : DG Set Area  
 Sampling duration (Minutes) : 34.0  
 Stack attached to : DG Set No. 1 (625 KVA)  
 Make of stack : MS  
 Diameter of stack : 0.25 Mtr.  
 Height of stack : 36.57 Mtr.  
 Meteorological Condition : Clear Sky  
 Instrument calibration status : Calibrated  
 Ambient Temperature – Ta (°C) : 34.0  
 Temperature of Stack Gases - Ts (°C) : 154.0  
 Velocity of Stack Gases (m/sec.) : 8.16  
 Flow rate of PM (LPM) : 22.0  
 Flow rate of Gas (LPM) : 2.0  
 Sampling condition : Isokinetic  
 Protocol used : IS :11255

S. No.	Parameter	Protocol	Result	Unit	Limits (As Per CPCB)
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	0.078	gm/Kw-hr	≤0.2
2.	Oxide of Nitrogen (as NOX)	IS 11255 (P-7) Colorimetric Method	1.31	gm/Kw-hr	≤4.0
3.	Total Hydrocarbon as Methane	SOP,SP-194,Issued No.01:2018	0.76	gm/Kw-hr	
4.	Sulphur Dioxide(as SO <sub>2</sub> )	IS:11255 (P-2), Titrimetric Method, RA:2003	0.21	gm/Kw-hr	Not Specified
5.	Carbon Monoxide (as CO)	*SOP No. VEL/SOP/01, Section No. SP 74	1.43	gm/Kw-hr	≤3.5

\*SOP-Laboratory Standard operating procedure

*Anchan*  
**KANCHAN SHARMA**  
 (Tested By)  
 Jr. Lab Analyst

*[Signature]*  
 (Checked By)

*[Signature]*  
 (Approved By)

Note: Terms & conditions refer on backside of test report.

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# Vardan Envirolab

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

## Test Report

**Sample Number:** VEL/CT/ST/02 **Report No.:** VEL/ST/2104/06/002  
**Name & address of the Project:** M/s Capital Tower – 01 **Format No.:** 7.8 F-01  
**Village-Sikanderpur Gosi, Sector – 26,** **Party Reference No.:** NIL  
**Gurgaon, Haryana.** **Reporting Date:** 10/04/2021  
**Period of Analysis:** 06/04/2021 to 10/04/2021  
**Receipt Date:** 06/04/2021

**Sample Description :** Stack Emission Monitoring

Sample Collected by : Vardan Envirolab Representative  
 Date of Monitoring : 05/04/2021  
 Sampling Location : DG Set Area  
 Sampling duration (Minutes) : 35.0  
 Stack attached to : DG Set No. 2 (1500 KVA)  
 Make of stack : MS  
 Diameter of stack : 0.40 Mtr.  
 Height of stack : 36.57 Mtr.  
 Meteorological Condition : Clear Sky  
 Instrument calibration status : Calibrated  
 Ambient Temperature – Ta (°C) : 34.0  
 Temperature of Stack Gases - Ts (°C) : 187.0  
 Velocity of Stack Gases (m/sec.) : 8.59  
 Flow rate of PM (LPM) : 23.0  
 Flow rate of Gas (LPM) : 2.0  
 Sampling condition : Isokinetic  
 Protocol used : IS :11255

S. No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1.	PM (at 15 % O <sub>2</sub> Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	52.87	mg/Nm <sup>3</sup>	75.00
2.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method, RA: 2003	26.44	mg/Nm <sup>3</sup>	Not Specified
3.	NOX (at 15 % O <sub>2</sub> Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	149.63	ppmv	710.0
4.	Carbon Monoxide (as CO) (at 15 % O <sub>2</sub> Correction)	SOP, SP-74, Issue No.01: 2018	62.11	mg/Nm <sup>3</sup>	150.0
5.	NMHC (at 15 % O <sub>2</sub> Correction)	SOP, SP-194, Issued No.01:2018	19.18	mg/Nm <sup>3</sup>	100.0

**KANCHAN SHARMA**  
Jr. Lab Analyst

(Checked By)

(Approved By)

Note: Terms & conditions refer on backside of test report.

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# Vardan EnviroLab

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

## Test Report

**Sample Number:** VEL/CT/ST/03 **Report No.:** VEL/ST/2104/06/003  
**Name & address of the Project:** M/s Capital Tower – 01 **Format No.:** 7.8 F-01  
Village-Sikanderpur Gosi, Sector – 26, **Party Reference No.:** NIL  
Gurgaon, Haryana. **Reporting Date:** 10/04/2021  
**Period of Analysis:** 06/04/2021 to 10/04/2021  
**Receipt Date:** 06/04/2021

**Sample Description :** Stack Emission Monitoring

Sample Collected by : Vardan EnviroLab Representative  
Date of Monitoring : 05/04/2021  
Sampling Location : DG Set Area  
Sampling duration (Minutes) : 33.0  
Stack attached to : DG Set No. 3 (1500 KVA)  
Make of stack : MS  
Diameter of stack : 0.40 Mtr.  
Height of stack : 36.57 Mtr.  
Meteorological Condition : Clear Sky  
Instrument calibration status : Calibrated  
Ambient Temperature – Ta (°C) : 35.0  
Temperature of Stack Gases - Ts (°C) : 184.0  
Velocity of Stack Gases (m/sec.) : 8.44  
Flow rate of PM (LPM) : 24.0  
Flow rate of Gas (LPM) : 2.0  
Sampling condition : Isokinetic  
Protocol used : IS :11255

S. No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1.	PM (at 15 % O <sub>2</sub> Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	49.72	mg/Nm <sup>3</sup>	75.00
2.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 11255 (P-2), Titrimetric Method, RA: 2003	28.56	mg/Nm <sup>3</sup>	Not Specified
3.	NOX (at 15 % O <sub>2</sub> Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	204.53	ppmv	710.0
4.	Carbon Monoxide (as CO) (at 15 % O <sub>2</sub> Correction)	SOP, SP-74, Issue No.01: 2018	79.34	mg/Nm <sup>3</sup>	150.0
5.	NMHC (at 15 % O <sub>2</sub> Correction)	SOP, SP-194, Issued No.01:2018	18.62	mg/Nm <sup>3</sup>	100.0

  
KANISHK SHARMA  
(Tested By)  
Sr. Lab Analyst

  
(Checked By)

  
(Approved By)

Note: Terms & conditions refer on backside of test report.

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# Vardan Envirolab

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

## Test Report

Sample Number: VEL/CT/PN/01 Report No.: VEL/PN/2104/06/001  
Name & Address of Party: M/s Capital Tower – 01 Format No.: 7.8 F-01  
Village-Sikanderpur Gosi, Sector – 26, Party Reference No.: NIL  
Gurgaon, Haryana. Reporting Date: 10/04/2021  
Period of Analysis: 06/04/2021 to 10/04/2021  
Receipt Date: 06/04/2021

Sample Description: DG NOISE MONITORING

### General Information:-

Sample collected by : Vardan Envirolab Representative  
Sampling Location : D.G. Room(1 Nos. 625 KVA & 2 Nos. 1500 KVA)  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/SLM/02  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 05/04/2021  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No Any  
Sampling & Analysis Protocol : IS - 9989  
Sampling Duration : 30 Minutes  
Parameter Required : As Per Work Order

## TEST RESULT

S. No.	Parameters	Protocol	Result dB(A)		
			Inside D.G Room Result dB(A)	Outside of D.G Room (0.5 mtr Distance) Result dB(A)	Insertion Loss
1.	$L_{eq}$	CPCB Guideline & Indian Standard : 9989	98.2	72.9	25.3
2.	CPCB Limits in dB(A)	-		75.0	25.0

Note: - All DG Set are Installed in one Room.

  
KANCHAR SHARMA  
Jr. Lab Analyst

  
(Checked By)

  
(Approved By)

Note: Terms & conditions refer on backside of test report.

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

### Test Report

**Sample Number:** VEL/CT/A/01 **Report No.:** VEL/A/2104/06/001  
**Name & Address of the Project:** M/s Capital Tower – 01 **Format No.:** 7.8 F-01  
**Village-Sikanderpur Gosi, Sector – 26,** **Party Reference No.:** NIL  
**Gurgaon, Haryana.** **Reporting Date:** 10/04/2021  
**Period of Analysis:** 06/04/2021 to 10/04/2021  
**Receipt Date:** 06/04/2021

**Sample Description :** AMBIENT AIR QUALITY MONITORING

#### General Information:-

**Sampling Location :** Near Main Gate  
**Sample collected by :** Vardan EnviroLab Representative  
**Sampling Equipment used :** RDS & FPS  
**Instrument Code :** VEL/RDS/ FPS/01  
**Instrument Calibration Status :** Calibrated  
**Meteorological condition during monitoring :** Clear Sky  
**Date of Monitoring :** 05/04/2021 to 06/04/2021  
**Time of Monitoring :** 11:30 AM to 11:30 AM  
**Ambient Temperature (°C) :** Min. 22.0, Max. 39.0  
**Surrounding Activity :** Human & Vehicular Activities  
**Scope of Monitoring :** Regulatory Requirement  
**Sampling & Analysis Protocol :** IS : 5182 & CPCB Guidelines  
**Sampling Duration :** 24 Hours.  
**Parameter Required :** As Per Work Order

S.No	Parameters	Test Method	Results	Units	Limit as per CPCB
1.	Particulate Matter (as PM – 10)	IS:5182 (P-23), Gravimetric Method, RA:2006	136.32	µg/m <sup>3</sup>	100
2.	Particulate Matter (as PM – 2.5)	SOP No. VEL/SOP/01, Section No. SP 63:2013	85.66	µg/m <sup>3</sup>	60
3.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS: 5182 (P-6), Jacob & Hoehheiser, RA:2006	22.62	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (as SO <sub>2</sub> )	IS: 5182 (P-2), Modified West and Gaeke, RA:2012	14.86	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (as CO)	IS: 5182 (P-10), Gas Chromatography, RA:2003	0.78	mg/m <sup>3</sup>	4.0
6.	Lead (as Pb)	IS:5182 (P-22), Air Acetylene Method, RA:2009	*BDL(**DL.0.05 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	1.0

\*BDL- Below Detection Limit, \*\*DL- Detection Limit

  
**KARAN SHARMA**  
 (Tested By)  
 Jr. Lab Analyst

  
**Pooja Singh**  
 (Checked By)  
 Lab Manager



Note: Terms & conditions refer on backside of test report.

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

### Test Report

**Sample Number:** VEL/CT/AN/01 **Report No.:** VEL/AN/2104/06/001  
**Name & Address of Party:** M/s Capital Tower – 01 **Format No.:** 7.8 F-01  
Village-Sikanderpur Gosi, Sector – 26, **Party Reference No.:** NIL  
Gurgaon, Haryana. **Reporting Date:** 10/04/2021  
**Period of Analysis:** 06/04/2021 to 10/04/2021  
**Sample Description :** AMBIENT NOISE LEVEL MONITORING **Receipt Date:** 06/04/2021

#### General Information:-

**Sample collected by** : Vardan EnviroLab Representative  
**Sampling Location** : Near Main Gate  
**Instrument Used** : Sound Level Meter  
**Instrument Code** : VEL/SLM/01  
**Instrument Calibration Status** : Calibrated  
**Meteorological condition during monitoring** : Clear Sky  
**Date of Monitoring** : 05/04/2021 to 06/04/2021  
**Time of Monitoring** : 06:00 AM to 06:00AM  
**Ambient Temperature (°C)** : Min. 22.0, Max. 39.0  
**Surrounding Activity** : Human & Vehicular Activities  
**Scope of Monitoring** : Regulatory Requirement  
**Sampling & Analysis Protocol** : CPCB Guidelines & IS-9989  
**Sampling Duration** : 24 Hours  
**Parameter Required** : As Per Work Order

S. No.	Parameters	Test Method	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L <sub>max</sub>	IS -9989	69.5	55.7	dB(A)
2.	L <sub>min</sub>	IS- 9989	48.6	38.2	dB(A)
3.	L <sub>eq</sub>	IS -9989	51.29	41.67	dB(A)
4.	CPCB Limits in dB(*A) Leq (Residential Area)		55.00	45.00	dB(A)

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

  
KANCHAN SHARMA  
(Tested By)  
Jr. Lab Analyst

  
Dr. Anshu  
(Checked By)  
Manager

  
(Approved By)

Note: Terms & conditions refer on backside of test report.

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# Vardan EnviroLab

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

## Test Report

<b>Sample Number:</b>	VEL/CT/WW/01	<b>Report No.:</b>	VEL/WW/2104/06/001
<b>Name &amp; Address of Party:</b>	M/s Capital Tower - 01 Village-Sikanderpur Gosi, Sector - 26, Gurgaon, Haryana.	<b>Format No.:</b>	7.8 F-01
		<b>Party Reference No.:</b>	NIL
		<b>Reporting Date:</b>	12/04/2021
		<b>Period of Analysis:</b>	06/04/2021 to 12/04/2021
		<b>Receipt Date:</b>	06/04/2021
<b>Sample Description:</b>	Waste Water Sample	<b>Sampling Date:</b>	05/04/2021
<b>Sampling Location:</b>	STP Plant (STP Inlet)	<b>Preservation:</b>	Refrigerated
<b>Sample Collected by:</b>	Vardan Enviro Lab Representative	<b>Sampling Quantity:</b>	2.0 Ltr
<b>Sampling &amp; Analysis Protocol:</b>	APHA & IS		

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method:2017	6.87	--
2.	Total Suspended Solid	APHA 2540 D Gravimetric Method	278.44	mg/l
3.	Oil & Grease	APHA 5520 B Partition Gravimetric Method:2017	11.39	mg/l
4.	BOD (3 Days at 27 °C)	APHA. 5210 C Ultimate BOD Test:2017	134.00	mg/l
5.	COD	APHA 5220 B Open Reflux Method:2017	396.26	mg/l
6.	Electrical Conductivity	APHA 2510 B Conductivity Meter Method:2017	836.00	µS/cm
7.	Total Coliform	IS 1622:1981- (RA 2009)	>1300	MPN/100ml
8.	E-coli	IS 1622:1981- (RA 2009)	200	MPN/100ml

*Kanchan Sharma*  
**KANCHAN SHARMA**  
(Tested By)  
Jr. Lab Analyst

*Renuka*  
(Checked By)

*[Signature]*  
(Approved By)

Note: Terms & conditions refer on backside of test report.

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# Vardan EnviroLab


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

## Test Report

**Sample Number:** VEL/CT/WW/02  
**Name & Address of Party:** M/s Capital Tower – 01  
Village-Sikanderpur Gosi, Sector – 26,  
Gurgaon, Haryana.  
**Report No.:** VEL/WW/2104/06/002  
**Format No.:** 7.8 F-01  
**Party Reference No.:** NIL  
**Reporting Date:** 12/04/2021  
**Period of Analysis:** 06/04/2021 to 12/04/2021  
**Sample Description:** Waste Water Sample  
**Receipt Date:** 06/04/2021  
**Sampling Location:** STP Plant (STP Outlet)  
**Sampling Date:** 05/04/2021  
**Sample Collected by:** Vardan Enviro Lab Representative  
**Preservation:** Refrigerated  
**Parameter Required:** As per Work Order  
**Sampling Quantity:** 2.0 Ltr  
**Sampling & Analysis Protocol:** APHA & IS

S. No.	Parameter	Test – Method	Result	Unit	Standards for Discharge as per CPCB		
					In-Land Surface Water	Public Sewers	Land for Irrigation
1.	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method:2017	7.43	--	5.5-9.0	5.5-9.0	5.5-9.0
2.	Total Suspended Solid	APHA 2540 D Gravimetric Method	53.41	mg/l	100	600	200
3.	Oil & Grease	APHA 5520 B Partition Gravimetric Method:2017	1.20	mg/l	10.0	20.0	10.0
4.	BOD (3 Days at 27 °C)	APHA, 5210 C Ultimate BOD Test:2017	23.00	mg/l	30.0	350.0	100.0
5.	COD	APHA 5220 B Open Reflux Method:2017	79.32	mg/l	250.0	--	--
6.	Conductivity	APHA 2510 B Conductivity Meter Method:2017	685.0	µS/cm	--	--	--
7.	Total Coliform	IS 1622:1981- (RA 2009)	1000	MPN/100ml	--	--	--
8.	E-coli	IS 1622:1981- (RA 2009)	20	MPN/100ml	--	--	--

  
**KANCHAN BHATNAGAR**  
Jr. Lab Analyst

  
(Checked By)

  
(Approved By)

Note: Terms & conditions refer on backside of test report.

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

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