

ACTIVE PROMOTERS PRIVATE LIMITED

(Regd. Off.: - 306-308, Square One, C-2, District Centre, Saket, New Delhi-110017)

To,
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

Date: 15.05.2021

Subject: Construction of Proposed Group Housing "Emerald Estate" at Vill-Medhawas, Sector-65, Gurgaon, Haryana by M/s Active Promoters Pvt. Ltd. & Others – Submission of Six-monthly Compliance Report – **June 2021.**

Ref: Environmental Clearance Letter No. SEIAA/HR/2010/589 dated 20.07.2010.

Dear Sir

With reference to the above-mentioned subject, we are hereby submitting soft copy of six-monthly Compliance Report for the Group Housing project 'Emerald Estate' for the month of **June 2021.**

We hope the above meets your requirement.

Thanking You

Yours faithfully,

For M/s Active Promoters Pvt. Ltd. & Others



Authorized Signatory

Encl: As above.

CC:

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

SIX MONTHLY REPORT

Status of Environmental Clearance

Project Name: Construction of Proposed Group Housing “Emerald Estate” at Village-Medhawas, Sector-65, Gurgaon, Haryana

Environmental Clearance No.: No. SEIAA/HR/2010/589, dated 20th July 2010

Part A: Specific Conditions

Construction Phase: The project has obtained Occupation Certificate for partial project on 11.11.2020 (Copy enclosed), hence both construction and operation phase are applicable.

S.No.	Specific Condition	Status
1	A First Aid Room as proposed in project report will be provided both during construction and operation of the project.	First Aid facility was available at site for workforce and was being maintained by site in-charge during construction phase.
2	Adequate drinking water & sanitary facilities should be provided for construction workers at site. Provision should be made for mobile toilets. Open defecation by laborer's is strictly prohibited. Safe disposal of wastewater & solid wastes generated during construction should be ensured.	Potable water and sanitary facilities including mobile toilets was being maintained at project site. Drinking water quality report is enclosed as Annexure 1
3	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape developments within the project site.	Topsoil excavated during construction phase was being used partially for landscaping and road leveling at site.
4	Disposal of muck during construction phase should not create any adverse effect on neighboring communities & be disposed-off taking necessary precautions for general safety & health aspects of people, only in approved sites with approval of competent authority.	Necessary precautions were being adopted so as not to create any adverse effect on neighboring communities.
5	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 HSPCB.	Waste oil from DG sets generated during construction phase was being stored in HDPE drums at earmarked area. The same will be sold to authorized recycler. Hence there is no contamination of water course and no leaching into groundwater. Latest Soil analysis report is enclosed as Annexure 2 .
6	Diesel generator sets to be used during construction should be low Sulphur diesel type & should conform to Environment (Protection) Rules prescribed for air & noise emission	Low Sulphur diesel was being used to run Diesel generator sets with proper acoustic enclosure. Copy of latest reports is attached as Annexure 3 & Annexure 4 , respectively

S.No.	Specific Condition	Status
	standards.	
7	Diesel required for operating DG Sets shall be stored in underground tanks & if required, clearance from Chief Controller of Explosives shall be taken.	At present very small amount of diesel was required and was purchased daily basis and is being stored in 200 lit barrels at designated area. Clearance from CCE will be taken as and when required.
8	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. Adequate measure should be made to reduce ambient air & noise level during construction, to conform to stipulated standards.	Ambient air and noise level monitoring is carried out at project site. Copy of latest reports is attached as Annexure 5 & Annexure 6 , respectively. Adequate measures are adopted to minimize air and noise pollution. Regular water sprinkling is being done on unpaved areas.
9	Fly ash should be used as building material in construction as per the provisions of Fly Ash Notification of September 1999 & amended as on 27.08.2003.	Fly ash based ready mix concrete is being utilized for construction.
10	Ready mixed concrete must be used in building construction.	Ready mix concrete is being utilized for building construction
11	Storm water control and its reuse as per CGWB and BIS standards for various applications should be ensured.	Storm water will be 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 referred.	Best practices are being adopted to reduce water demand.
13	Permission from Competent Authority for supply of water shall be obtained prior to operation of the project.	Agreed and same will be adhered to prior to Operation phase.
14	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Energy conservation measures will be 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 aspirational for non-air-conditioned spaces by use of appropriate thermal insulation 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 due to 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 taken from Competent Authority.	Necessary approvals have been obtained from Department of Town and Country Planning Haryana for structural safety and site clearance under Forest Conservation Act. Fire NOC has already been submitted.
17	The project proponent will use water for construction phase through tankers. However, prior permission from CGWA will be taken	Treated wastewater available from nearest HUDA sewage treatment plant facilities was being used during construction phase.

S.No.	Specific Condition	Status
	before using borewell water for construction purposes.	
18	Project proponent will construct rainwater harvesting pits @ 1 pit per acre for recharging groundwater within project premises.	Incorporated in the storm drainage design system and we will adhere to.
19	Project proponent will start construction only after getting permission of Airport Authority.	Permission from Airport Authority has been taken. Copy has already been submitted to MoEF

II. Operation Phase

S.No.	Specific Condition	Status
1	STP shall be installed for treatment of sewage generated to prescribed standards including odor & treated effluent will be recycled to achieve zero exit discharge. STP should be installed at the remotest place in project area.	STP has been installed at site. Consent to Operate has already been submitted. Recent CTO is enclosed as Annexure 7
2	Separation of gray & black water should be done by use of dual plumbing line. Treatment of 100% gray water by decentralized treatment should be done ensuring that re-circulated water should have BOD maximum 10ppm & recycled water will be used for flushing, gardening & DG set cooling & running of fountain in water body.	Provision of separation of grey and black water will be made by adopting dual plumbing system. STP analysis report is enclosed as Annexure 8
3	For disinfections of treated wastewater UV radiation or ozonation should be used.	Agreed and same will be adhered.
4	Solid waste generated should be properly collected & segregated. Bio-degradable waste will be decomposed at site & dry/inert solid waste should be disposed off to approved sites for landfilling after recovering recyclable material.	Agreed and same will be adhered.
5	Diesel power generating sets proposed as source of backup power for lifts, common area illumination & for domestic use should be of enclosed type & conform to rules made under Environment (Protection) Act 1986. Location of DG Sets should be in the basement as promised by the project proponent with appropriate stack height as per the CPCB norms. The diesel used for DG sets should be of low Sulphur contents (maximum 0.25%).	Agreed and same will be adhered.
6	Ambient noise level should be controlled to ensure that it does not exceed prescribed standards both within & at boundary of proposed residential complex.	Agreed and same will be adhered.
7	Project proponent should maintain at least 20% as green cover area for tree plantation especially all-around periphery of the project & on road sides preferably with local species so as to provide protection against particulates & noise. Open	Agreed and same will be adhered.

S.No.	Specific Condition	Status
	spaces inside the plot should be preferable landscaped & covered with vegetation/grass.	
8	Weep holes in the compound front walls shall be provided to ensure natural drainage of rainwater in catchments area during monsoon period.	Will be provided wherever required.
9	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. Borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.	Agreed and same will be adhered.
10	The groundwater level & its quality should be monitored regularly in consultation with Central Ground Water Authority.	Will be adhered to if applicable.
11	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.	Agreed and same will be adhered.
12	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.	Energy conservation norms have been incorporated.
13	Energy conservation measures like installation of CFLs/TFLs for lighting areas outside the building should be integral part of project design & should be in place before project commissioning. Used CFLs & TFLs should be properly collected & disposed off/sent for recycling as per prevailing rules/guidelines of the regulatory authority to avoid mercury contamination. Use of solar panels may be adopted to the maximum extent possible for energy conservation.	Agreed and same will be adhered.
14	Solid waste generated should be properly collected & segregated as per the requirement of the MSW Rules, 2000 & as amended from time to time. Bio-degradable waste should be composted by vermin-composting at site earmarked within project area and dry/inert solid waste should be disposed off to approved sites for land filling after recovering recyclable material.	Practice of proper collection and segregation of solid waste will be adopted at site. Procurement of Organic Waste Converter is under process.
15	Provision of Solar water heating system shall be as per norms specified by HAREDA & shall be made operational in each building block.	Agreed and same will be adhered.
16	Project proponent will use water from already	Agreed and same will be adhered.

S.No.	Specific Condition	Status
	existing tube wells for domestic purposes only after getting permission from CGWA or will use water supply from HUDA whichever is earlier during operation phase.	
17	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 entry & exit points from roads adjoining the proposed project site. Parking should be fully internalized & no public space should be used.	Agreed and same will be adhered.

Part B: General Conditions

S.No.	General Condition	Status
1	The environmental safeguards contained in EIA/EMP Report should be implemented in letter & spirit.	Noted
2	6 monthly compliance reports should be submitted to HSPCB and Regional Office, MoEF, GOI Northern Region, Chandigarh and copy to SEIAA Haryana.	Six monthly report is being submitted to Regional Office, MoEF, and copy to HSPCB, and SEIAA Haryana.
3	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.	Noted.
4	PP will start construction only after getting NOC from Forest department that area under consideration does not fall under section 4 and 5 PLPA1900.	Aravalli NOC from Forest Department has been obtained & a copy has already been submitted to MoEF.
5	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, PLPA,1900, Forest Act, 1927 etc. shall be obtained as applicable by project proponent from the respective authorities prior to construction of the project.	Permission from Airport Authority, NOC from Forest Department, and Consent to Establish NOC from HSPCB has been obtained.
6	Project Proponent will not violate any judicial orders/pronouncements issued by the Hon'ble Supreme Court/High Courts.	Noted.



Vardan Envirolab

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

ANNEXURE 1

Test Report

Sample Number:	VEL/EE/W/01	Report No.:	VEL/W/2104/07/001
Name & Address of Project:	M/s Emerald Estate Village - Maidawas, Sector-65 Gurugram, (Haryana).	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	10/04/2021
		Period of Analysis:	07/04/2021 to 10/04/2021
		Receipt Date:	07/04/2021
Sample Description:	Drinking Water Sample	Sampling Date:	06/04/2021
Sampling Location:	Pump Room	Type of Sampling:	Grab
Sample Collected by:	Vardan Envirolab Representative	Sampling Quantity:	5 L+250ml.
Sampling & Analysis Protocol:	APHA & IS	Preservation:	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	7.40	--	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 ₃	APHA , 2340 C, EDTA Titrimetric Method	126.41	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	32.48	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA , 2320 B, Titrimetric Method	139.34	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	17.98	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	11.03	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	196.34	mg/l	500	2000
13.	Sulphate as SO ₄	APHA , 4500 E, Turbidimetric Method	10.36	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F ⁻ D, SPADNS Method	0.42	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	3.26	mg/l	45	No Relaxation
16.	Iron as Fe	IS 3025 (Part-65)	0.36	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

(Tested By)

N. SHARMA

(Checked By)

(Approved By)

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

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Ph: 0124-4343750/752/753, 9810355569, 9953147268 E-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



Vardan Envirolab

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

Test Report

Sample No.: VEL/EE/W/01

Report No: VEL/W/2104/07/001

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

MANISH SHARMA
(Tested By)
Lab Analyst

D. Singh
(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/EE/S/01

Name & Address of Party: M/s Emerald Estate
Village - Maidawas, Sector - 65
Gurgaon, (Haryana).

Sample Description: Soil Sample

Sampling Location: Project Site

Packing Status: Temp Sealed

Sampling & Analysis Protocol: IS 2720 & SOP

Report No.: VEL/S/2104/07/001

Format No.: 7.8 F-01

Party Reference No.: NIL

Reporting Date: 10/04/2021

Period of Analysis: 07/04/2021 to 10/04/2021

Receipt Date : 07/04/2021

Sampling Date: 06/04/2021

Type of Sampling: Composite

Sampling Quantity: 2.0 Kg

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	7.54	--
2.	Conductivity	IS:14767 by Conductivity meter	0.426	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	35.77	%
5.	Bulk density	*SOP , SP-80, Issue No.-01& Issue Date-14/02/2013	1.32	gm/cc
6.	Chloride as Cl	*SOP , SP-85, Issue No.-01& Issue Date-14/02/2013	36.11	mg/100g
7.	Calcium as Ca	*SOP , SP-82, Issue No.-01& Issue Date-14/02/2013	41.36	mg/100g
8.	Sodium as Na	*SOP , SP-84, Issue No.-01& Issue Date-14/02/2013	56.87	mg/kg
9.	Potassium as K	*SOP , SP-84, Issue No.-01& Issue Date-14/02/2013	149.31	kg/hect.
10.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.57	%
11.	Magnesium as Mg	*SOP , SP-83, Issue No.-01& Issue Date-14/02/2013	28.61	mg/100g
12.	Available Nitrogen as N	IS:14684 Distillation Method	214.34	kg/hect.
13.	Available Phosphorus	*SOP , SP-86, Issue No.-01& Issue Date-14/02/2013	21.58	kg/hect.
14.	Zinc (as Zn)	USEPA 3050B	16.82	mg/kg
15.	Manganese (as Mn)	USEPA 3050B	9.46	mg/kg
16.	Lead (as Pb)	USEPA 3050B	1.32	mg/kg
17.	Cadmium (as Cd)	USEPA 3050B	0.77	mg/kg
18.	Chromium (as Cr)	USEPA 3050B	0.83	mg/kg
19.	Copper (as Cu)	USEPA 3050B	4.71	mg/kg
20.	Soil Texture	IS : 2720 (P-22, RA2003)	Silty Loam	--

*SOP-Laboratory Standard Operating Procedure


(Tested By)


(Checked 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/EE/ST/01 Report No.: VEL/ST/2104/07/001
Name & address of the Project: M/s Emerald Estate Village - Maidawas, Sector - 65 Gurugram, (Haryana).
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021
Receipt Date: 07/04/2021

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : DG Set Area
Sample Collected by : Vardan Envirolab Representative
Date of Sampling : 06/04/2021
Sampling Duration (Minutes) : 45.0
Stack attached to : DG Set No - 1(1010 KVA)
Make of stack : M.S.
Diameter of stack (m) : 0.30 Mtr.
Height of stack (m) : 28.0 Mtr.
Instruments calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature – Ta (°C) : 34.0
Temperature of stack Gases – Ts (°C) : 166.0
Velocity of stack Gases (m/sec.) : 8.36
Flow rate of PM (LPM) : 24.0
Flow rate of Gas (LPM) : 2.0
Sampling condition : Isokinetic
Protocol used : IS :11255

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1.	PM (at 15 % O ₂ Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	41.82	mg/Nm ³	75.00
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2), Titrimetric Method, RA: 2003	23.95	mg/Nm ³	Not Specified
3.	NOX (at 15 % O ₂ Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	167.82	ppmv	710.0
4.	Carbon Monoxide (as CO) (at 15 % O ₂ Correction)	SOP, SP-74, Issue No.01: 2018	52.91	mg/Nm ³	150.0
5.	NMHC (at 15 % O ₂ Correction)	SOP, SP-75, Issue No.01: 2018	12.85	mg/Nm ³	100.0

KANCHAN SHARMA
(Tested By)
Jr. Lab Analyst

(Checked 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/EE/ST/02 Report No.: VEL/ST/2104/07/002
Name & address of the Project: M/s Emerald Estate Village - Maidawas, Sector - 65 Gurugram, (Haryana).
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021
Receipt Date: 07/04/2021

Sample Description : Stack Emission Monitoring

General Information

Sampling Location : DG Set Area
Sample Collected by : Vardan Envirolab Representative
Date of Sampling : 06/04/2021
Sampling Duration (Minutes) : 35.0
Stack attached to : DG Set No - 2(1500 KVA)
Make of stack : Metal
Diameter of stack (m) : 0.30 Mtr.
Height of stack (m) : 28.0 Mtr.
Instruments calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 34.0
Temperature of stack Gases - Ts (°C) : 169.0
Velocity of stack Gases (m/sec.) : 8.28
Flow rate of PM (LPM) : 23.0
Flow rate of Gas (LPM) : 2.0
Sampling condition : Isokinetic
Protocol used : IS :11255

RESULTS

S.No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1.	PM (at 15 % O ₂ Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	50.98	mg/Nm ³	75.00
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2), Titrimetric Method, RA: 2003	24.36	mg/Nm ³	Not Specified
3.	NOX (at 15 % O ₂ Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	186.32	ppmv	710.0
4.	Carbon Monoxide (as O ₂) (at 15 % O ₂ Correction)	SOP, SP-74, Issue No.01: 2018	58.14	mg/Nm ³	150.0
5.	NMHC (at 15 % O ₂ Correction)	SOP, SP-75, Issue No.01: 2018	18.21	mg/Nm ³	100.0

KANISHK SHARMA
(Tested By)
Jr. Lab Analyst

(Checked 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/EE/ST/03 Report No.: VEL/ST/2104/07/003
Name & address of the Project: M/s Emerald Estate
Village - Maidawas, Sector - 65 Gurugram, (Haryana).
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021
Receipt Date: 07/04/2021

Sample Description : Stack Emission Monitoring

General Information

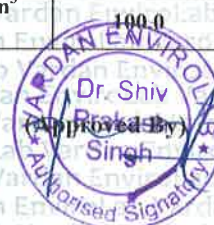
Sampling Location : DG Set Area
Sample Collected by : Vardan Envirolab Representative
Date of Sampling : 06/04/2021
Sampling Duration (Minutes) : 47.0
Stack attached to : DG Set No - 3(1500 KVA)
Make of stack : Metal
Diameter of stack (m) : 0.30 Mtr
Height of stack (m) : 28.0 Mtr
Instruments calibration status : Calibrated
Meteorological Condition : Clear Sky
Ambient Temperature - Ta (°C) : 32.0
Temperature of stack Gases - Ts (°C) : 144.0
Velocity of stack Gases (m/sec.) : 8.62
Flow rate of PM (LPM) : 23.0
Flow rate of Gas (LPM) : 2.0
Sampling condition : Isokinetic
Protocol used : IS :11255

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per CPCB
1.	PM (at 15 % O ₂ Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	56.25	mg/Nm ³	75.00
2.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2), Titrimetric Method, RA: 2003	26.24	mg/Nm ³	Not Specified
3.	NOX (at 15 % O ₂ Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	194.36	ppmv	710.0
4.	Carbon Monoxide (as O ₂) (at 15 % O ₂ Correction)	SOP, SP-74, Issue No.01: 2018	62.34	mg/Nm ³	150.0
5.	NMHC (at 15 % O ₂ Correction)	SOP, SP-75, Issue No.01: 2018	24.23	mg/Nm ³	100.0

KANISHK SHARMA
(Tested By)

(Checked 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/EE/PN/01 **Report No.:** VEL/PN/2104/07/001
Name & Address of Party: M/s Emerald Estate **Format No.:** 7.8 F-01
Village-Maidawas, Sector - 65 **Party Reference No.:** NIL
Gurugram, (Haryana). **Reporting Date:** 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021
Receipt Date: 07/04/2021

Sample Description: DG NOISE MONITORING

General Information:-
Sample collected by : Vardan Envirolab Representative
Sampling Location : D.G. Room(1 Nos. 1010 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 : 06/04/2021
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.

KANISHK SHARMA
(Tested By)
Jr. Lab Analyst

(Checked By)

Dr. Shiv
(Approved By)
Authorized Signatory

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

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ANNEXURE 5

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

Test Report

Sample Number: VEL/EE/A/01
Name & Address of the Project: M/s Emerald Estate
Village-Maidawas, Sector - 65
Gurugram, (Haryana).
Report No.: VEL/A/2104/07/001
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021
Receipt Date: 07/04/2021

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 : 06/04/2021 to 07/04/2021
Time of Monitoring : 01:40 PM to 01:40 PM
Ambient Temperature (°C) : Min. 20.0, 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	162.74	µg/m ³	100
2.	Particulate Matter (as PM – 2.5)	SOP No. VEL/SOP/01, Section No. SP 63:2013	93.24	µg/m ³	60
3.	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser, RA:2006	24.21	µg/m ³	80
4.	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2), Modified West and Gaeke, RA:2012	14.88	µg/m ³	80
5.	Carbon Monoxide (as CO)	IS: 5182 (P-10), Gas Chromatography, RA:2003	0.83	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 (P-22), Air Acetylene Method, RA:2009	*BDL(**DL0.05 µg/m ³)	µg/m ³	1.0

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

(Tested By)

ANSHU SHARMA

(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/EE/AN/01	Report No.:	VEL/AN/2104/07/001
Name & Address of Party:	M/s Emerald Estate Village-Maidawas, Sector - 65 Gurugram, (Haryana).	Format No.:	7.8 F-01
		Party Reference No.:	NIL
		Reporting Date:	10/04/2021
		Period of Analysis:	07/04/2021 to 10/04/2021
		Receipt Date:	07/04/2021

Sample Description : AMBIENT NOISE LEVEL MONITORING

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	: 06/04/2021 to 07/04/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 20.0, Max. 39.0
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: CPCB Guidelines & IS-9989
Sampling Duration	: 24 Hours.
Parameter Required	: As Per 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 _{max}	IS -9989	69.3	56.7	dB(A)
2.	L _{min}	IS -9989	45.6	37.6	dB(A)
3.	L _{eq}	IS -9989	52.3	42.4	dB(A)
4.	CPCB Limits in dB(*A) Leq (Residential Area)		55.0	45.0	dB(A)

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


Anshu SHARMA
(Tested By)


(Checked By)


Dr. Shiv Prakash Singh
(Approved By)
Authorised Signatory

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

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HARYANA STATE POLLUTION CONTROL BOARD

Gurgaon North Vikas Sada, 1st Floor,
Near DC Court, Gurgaon Ph.0124-2332775

E-mail: hspcb.pkl@sify.com



No. HSPCB/Consent/ : 329962319GUNOCTO6676567

Dated:22/07/2019

To.

M/s :Group Housing Colony
Village Maidawas Sector 65

Subject: Grant of consent to operate to M/s Group Housing Colony.

Please refer to your application no. 6676567 received on dated 2019-06-27 in regional office Gurgaon North. With reference to your above application for consent to operate, M/s Group Housing Colony is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2019 - 30/09/2021
Industry Type	Building and construction project having waste water generation more than 100 KLD
Category	RED
Investment(In Lakh)	31500.0
Total Land Area(Sq. meter)	103191.0
Total Builtup Area(Sq. meter)	240268.0
Quantity of effluent	
1. Trade	0.0 KL/Day
2. Domestic	664.0 KL/Day
Number of outlets	1.0
Mode of discharge	
1. Domestic	STP
2. Trade	
Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
Trade Effluent Parameters	
1. NA	
Number of stacks	1
Height of stack	
1. DG Stack	6 meters from roof
Emission parameters	
1. NA	

Product Details	
1. NA	Metric Tonnes/day
Capacity of boiler	
1. NA	Ton/hr
Type of Furnace	
1. NA	
Type of Fuel	
1. Diesel	5.1 KL/day
Raw Material Details	
NA	Metric Tonnes/Day

Regional Officer, Gurgaon North
Haryana State Pollution Control Board.

Terms and conditions

1. The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly.
2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
3. The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
4. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
5. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.
6. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.
9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any

account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.

11. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.

12. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.

13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.

14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.

15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.

16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

1. unit will run and maintain it's STP/ETP/APCM regularly and properly, will provide separate energy meter on their STP/ETP/APCM and maintain the Log Book for energy consumption of STP/ETP/APCM and chemicals used daily for the STP/ETP. 2. That the unit shall keep all the parameters within the prescribed limits and shall comply with all the Norms and Rules as prescribed in the Act 3. That the unit will adopt cleaner technology thereby reducing pollution load. 4. That the unit will provide inter locking arrangement of DG set with STP/ETP/APCM and shall have separate D.G. set to ensure regular and effective running of pollution control devices. 5. That the unit will not discharge any untreated effluent inside and outside its premises. 6. Unit will provide separate flow meter at Inlet/ Outlet of STP/ETP for which separate log book will be maintained if required. 7. That the unit will not add any air polluting process/ machinery and also not to add any process which increases the water pollution load. 8. That the unit will comply with all the provisions of Hazardous Waste Rules and submit return under HWM Rules on yearly basis. 9. That the CTO so granted shall become invalid in case of violation of any of the above / any law of the land. 10. Unit will apply for consent to operate for further period 90 days before expiry of this consent otherwise penalty will be imposed as per policy. 11. unit will submit compliance report of general & specific conditions mentioned in CTO alongwith fresh analysis report within 03 months. 12. The unit will apply for authorization under HWM rules, 2016.

Kuldeep Singh Digitally signed by Kuldeep Singh
Date: 2019.07.22 18:23:26 +05'30'

Regional Officer, Gurgaon North
Haryana State Pollution Control Board.



Vardan Envirolab

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

Test Report

Sample Number: VEL/EE/WW/01 **Report No.:** VEL/WW/2104/07/001
Name & Address of Party: M/s Emerald Estate **Format No.:** 7.8 F-01
Village-Maidawas, Sector - 65 **Party Reference No.:** NIL
Gurugram, (Haryana). **Reporting Date:** 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021
Receipt Date: 07/04/2021
Sampling Date: 06/04/2021
Sample Description: Waste Water Sample **Preservation:** Refrigerated
Sampling Location: STP Plant (STP Inlet) **Sampling Quantity:** 2.0 Ltr
Sample Collected by: Vardan Envirolab Representative
Sampling & Analysis: APHA & IS
Protocol:

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method:2017	6.78	--
2.	Total Suspended Solid	APHA 2540 D Gravimetric Method	269.34	mg/l
3.	Oil & Grease	APHA 5520 B Partition Gravimetric Method:2017	11.26	mg/l
4.	BOD (3 Days at 27 °C)	APHA, 5210 C Ultimate BOD Test:2017	126.00	mg/l
5.	COD	APHA 5220 B Open Reflux Method:2017	369.32	mg/l
6.	Electrical Conductivity	APHA 2510 B Conductivity Meter Method:2017	782	µS/cm
7.	Total Coliform	IS 1622:1981- (RA 2009)	>1000	MPN/100ml
8.	E-coli	IS 1622:1981- (RA 2009)	190	MPN/100ml

KANCHAN SHARMA
(Tested By)

(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/EE/WW/02
Name & Address of Party: M/s Emerald Estate
Village-Maidawas, Sector - 65
Gurugram, (Haryana).

Report No.: VEL/WW/2104/07/002
Format No.: 7.8 F-01
Party Reference No.: NIL
Reporting Date: 10/04/2021
Period of Analysis: 07/04/2021 to 10/04/2021

Sample Description: Waste Water Sample
Sampling Location: STP Plant (STP Outlet)
Sample Collected by: Vardan EnviroLab Representative
Sampling & Analysis Protocol: APHA & IS

Receipt Date: 07/04/2021
Sampling Date: 06/04/2021
Preservation: Refrigerated
Sampling Quantity: 2.0 Ltr

S. No.	Parameter	Test - Method	Result	Unit	Standards for Discharge as per		
					In-Land Surface Water	Public Sewers	Land for Irrigation
1.	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method:2017	7.59	--	5.5-9.0	5.5-9.0	5.5-9.0
2.	Total Suspended Solid	APHA 2540 D Gravimetric Method	63.44	mg/l	100	600	200
3.	Oil & Grease	APHA 5520 B Partitition Gravimetric Method:2017	0.98	mg/l	10.0	20.0	10.0
4.	BOD (3 Days at 27 °C)	APHA, 5210 C Ultimate BOD Test:2017	26.00	mg/l	30.0	350.0	100.0
5.	COD	APHA 5220 B Open Reflux Method:2017	83.14	mg/l	250.0	--	--
6.	Conductivity	APHA 2510 B Conductivity Meter Method:2017	678	µS/cm	--	--	--
7.	Total Coliform	IS 1622:1981- (RA 2009)	600	MPN/100ml	--	--	--
8.	E-coli	IS 1622:1981- (RA 2009)	10	MPN/100ml	--	--	--


(Tested By)
KANISHK SHARMA
Jr. Lab Analyst


(Checked By)


Dr. Shiv Prakash Singh
(Approved By)

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