

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 Group Housing Project "Palm Hills" at Village – Shikhopur, Sector-77, Gurgaon, Haryana by M/s Emaar India Ltd. – Submission of Six-monthly Compliance Report – June 2021

Ref: Environmental Clearance F. No. 21-234/2017-IA-III dated 10.10.2017

Dear Sir.

With reference to the above-mentioned subject, we are here by submitting soft copy of six-monthly Compliance Report for the Group Housing project 'Palm Hills' for **June 2021.**

Thanks and Regards,

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.

SIX MONTHLY REPORT

Status of Environmental Clearance

Project Name: Expansion of Group Housing Project at village Shikhopur, Sector 77, Gurgaon, Haryana.

Environmental Clearance F. No. 21-234/2017-IA-III dated 10.10.2017

Part A: Specific Conditions

I. Construction Phase

S. No.	Specific Condition	Status			
1	The project proponent shall obtain all necessary	Will be adhered. Consent to Establish has			
	clearance/ permission from all relevant agencies				
	including town planning authority before	No.HSPCB/Consent/:329962318GUSOCT			
	commencement of work. All the construction shall				
	be done in accordance with the local building	9.10.2024 has already been submitted.			
	byelaws.				
2	Sewage shall be treated in the STP (SAFF	Is being adhered			
	Technology) with tertiary treatment i.e. Ultra				
	Filtration. The treated effluent from STP shall be				
	recycled/re-used for flushing, horticulture & DG				
	cooling. Excess treated sewage will be discharged				
3	into municipal drain. The local bye-law provisions on rain water	Will be adhered			
3	harvesting should be followed. If local byelaw	will be adhered			
	provision is not available, adequate provision for				
	storage and recharge should be followed as per the				
	Ministry of Urban Development Model Building				
	Byelaws, 2016. As proposed, 29 nos. of rain water				
	harvesting pits shall be provided as per CGWB				
	guidelines.				
4	Separate wet and dry bins must be provided in	Will be adhered			
	each unit and at the ground level for shall be				
	provided as per CGWB guidelines facilitating				
	segregation of waste. Solid waste shall be				
	segregated into wet garbage and inert materials.				
	Wet garbage shall be composted in Organic Waste				
	Converter. As proposed, 300 m2 space shall be				
	provided for solid waste management within the				
	premises which will include area for segregation,				
	composting. The inert waste from group housing				
	project will be sent to dumping site.				

5	The natural drains system should be maintained	Will be adhered		
	for ensuring unrestricted flow of water. No	Will be authored		
	construction shall be allowed to obstruct the			
	natural drainage through the site, on wetland and			
	water bodies. Check dams, bio-swales, landscape			
	and other sustainable urban drainage system			
	(SUDS) are allowed for maintaining the drainage			
	pattern and to harvest rainwater. Building shall be			
	designed to follow the natural topography as much			
	as possible. Minimum cutting and filling should be			
	done.			
6	Construction site shall be adequately barricaded	Is being adhered. Ambient air quality and		
	before the construction begins. Dust, smoke and	noise is enclosed as Annexure 1 &		
	other air pollution prevention measures shall be	Annexure 2 respectively		
	provided for the building as well as at site. These	1 J		
	measures shall include screens for the building			
	under construction, continuous dust/wind breaking			
	wall all around the site (at least 3-meter height).			
	Plastic /tarpaulin sheet covers shall be provided			
	for vehicles bringing sand, cement, murram and			
	other construction materials prone to causing dust			
	pollution at the site as well as taking out debris			
	from the site. Sand murram, loose soil, cement,			
	stored on the site shall be covered adequately to			
	prevent dust pollution. Wet jet shall be provided			
	for grinding and stone cutting. Unpaved surfaces			
	and loose soil shall be adequately sprinkled with			
	water to suppress dust.			
7	All construction and demolition debris shall be	Will be adhered		
	stored at site (and not dumped on the road or open			
	spaces outside) before they are properly disposed.			
	All demolition and construction waste shall be			
	managed as per the provision of the construction			
	and demolition waste rules 2016. All workers			
	working at the construction site and involved in			
	loading, unloading, carriage of construction debris			
	or working in any area with dust pollution shall be			
	provided with dust mask.			
8	Provisions shall be made for the housing of	Will be adhered. Drinking water quality is		
	construction labors with in the site with all	enclosed as Annexure 3		
	necessary infrastructure and facilities such as fuel			
	for cooking, mobile toilets, mobile STP, safe			
	drinking water, medical facilities creche etc. The			
	housing may be in the form of temporary structure			
	to be removed after the completion of the project.			
9	At least 20 % of the open spaces as required by	Will be adhered		
"	the local building byelaws shall be provided. Use	WITH DC authoreu		
	of grass pavers, paver blocks with at least 50 %			
	opening, landscape etc. would be considered as			
	pervious surface.			

ed to run
acoustic DG stack
ached as
ctively.
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19	Water demand during construction should be	Best practices are being adopted to reduce
	reduced by use of pre-mixed concrete, curing	water demand.
	agents & other best practices referred.	
20	As proposed no ground water shall be used during	Will be adhered
	construction/operation phase of the project.	
21	Approval of the CGWA required before any	Will be adhered
	dewatering for basements.	
22	The approval of competent authority shall be	Provision for structure safety has taken care
	obtained for structural safety of the building due to	during the Building Plan approval from
	earthquake, adequacy of fire fighting equipments	Department of Town and Country Planning.
	etc. as per National Building Code including	Approval for Firefighting scheme of the
	protection measures from lightening etc.	project obtained and submitted with
		previous compliance report.
23	Any hazardous waste generated during	Waste oil from DG sets is the only
	construction phase should be disposed off as per	hazardous waste generated at present & is
	applicable rules & norms with necessary approval	being stored in earmarked area and will be
	of State Pollution Control Board.	sold to authorized recycler. Hence there is
		no contamination of water course and no leaching into groundwater. Soil analysis
		report is enclosed as Annexure 6
24	Vehicles hired for bringing construction materials	report is enclosed as Annexure 0
27	to the site should be in good condition and should	
	have a pollution check certificate and should	
	conform to applicable air and noise emission	
	standards be operated only during non-peak hours.	
25	Ambient noise levels should conform to	Ambient air and noise level monitoring is
	residential standards both during day & night as	carried out regularly at project site. Latest
	per Noise Pollution Rules 2000. Incremental	copy of reports is attached as Annexure 1
	pollution loads on ambient air and noise quality	& Annexure 2, respectively. Measure like
	should be closely monitored during construction.	landscaping, water sprinkling, nose mask,
	Adequate measure should be made to reduce	PPE to labors & training, development of
	ambient air & noise level during construction, to conform to stipulated standards by CPCB/SPCB.	landscaped area is being adopted
	comorni to supulated standards by Ci CD/SFCD.	
26	Use of environmentally friendly materials in	
	brinks, blocks and other construction material	
	quantity. These includes Fly Ash bricks, hollow	
	bricks, AACs, Fly Ash Lime Gypsum blocks,	
	compressed earth blocks and other environment	
	friendly materials. Fly ash should be used as	
	building materials in the construction as per the	
	provisions of fly ash Notification of September 1999 and amendments as on 27th August 2003	
	and 25th January 2016. Ready mixed concrete	
	must be used in building construction.	
	mass of asea in ballaning constitution.	

27	A comprehensive mobility plan as per MoUD best	Will be adhered
	practices guidelines (URDPFI) shall be prepared	
	to include motorized, non-motorized, public, and	
	private networks. Road should be designed with	
	due consideration for environment and safety of	
	users. The road system can be designed with these	
	basic criteria.	
	• Hierarchy of roads with proper segregation of	
	vehicular and pedestrian traffic.	
	Traffic calming measures.	
	Proper design of entry and exit points.	
	Parking norms as per local regulations.	
28	An assessment of the cumulative impact of all	Will be adhered
	activities being carried out or proposed to be	
	carried out by the project, shall be made for traffic	
	densities and parking capabilities in a 05 kms	
	radius from the site. A detailed traffic	
	management and a traffic decongestion plan	
	drawn up through an organization of repute and	
	specializing in Transport Planning shall be	
	implemented to the satisfaction of the State Urban	
	Development and Transport Departments shall	
	also include the consent of all the concerned	
20	implementing agencies.	XX7'11 1 11 1
29	Project proponent should comply with conditions	Will be adhered
	stipulated at Appendix-XIV of the amendment	
	EIA notification vide S.O. 3999 (E) dated	
	09.12.2016.	

II. Operation Phase

S. No.	Specific Condition	Status
1	Fresh water requirement from HUDA Supply	Will be adhered
2	Water Supply shall not exceed 829 KLD. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e., planting of 3 trees for every 1 tree that is cut) shall be done and maintained. As proposed 32770 sqm area shall be provided for green belt development	Will be adhered
3	The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosures shall be provided to the DG set to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	Will be adhered
4	For indoor air quality the ventilation previous as	

	per National Building Code of India.	
	The quality of freshwater usage, water recycling	Will be adhered
	and rain water harvesting shall be measured and	Will be adjicted
	recorded to monitor the water balance as projected	
5	by the project proponent. The record shall be	
	submitted to the regional office MoEF & CC	
	along with the six-monthly Reports.	
	The installation of Sewerage Treatment Plant	Will be adhered. CTO for the existing
	(STP) shall be certified by an independent expert	project has already been submitted. STP
	and a report in this regard shall be submitted to the	analysis report is enclosed as Annexure 7
6	Ministry before the project is commissioned for	
"	operation. Periodical monitoring of water quality	
	of treated sewerage shall be conducted. Necessary	
	Measures should be made to mitigate the odor	
	Problem from STP.	
7	No sewage or untreated effluent water would be	Will be adhered
	discharged through storm water drains.	XX7'11 1 11 1
	Sludge from the onsite sewerage treatment, including septic tanks shall be collected,	Will be adhered
	including septic tanks shall be collected, conveyed, and disposed as per the ministry Of	
8	Urban Development, Central Public Health and	
	Environmental Engineering Organization,	
	(CPHEEO) Manual on sewerage and Sewage	
	Treatment System 2013.	
	The provision of solid waste management rules	Will be adhered
	2016, E-waste Rules 2016, the construction and	
9	demolition Waste Management rules 2016 and	
	plastic waste management rules 2016 should be	
	followed.	XX7'11 1 11 1
	Solar, wind or other Renewal Energy shall be	Will be adhered
10	installed to meet electricity generation equivalent to 1 % of the demand load or as per the state	
10	level/local building byelaws requirement	
	whichever is higher.	
	Solar power shall be used for lighting in the	Will be adhered
	apartment to reduce the power load on grid.	
	Separate electric meter shall be installed for solar	
	power. Solar water heating shall be provided to	
11	meet 20 % of the hot water demand of the	
11	commercial and institutional building or as per the	
	requirement of the local building bye-lays,	
	whichever is higher. Residential building is also recommended to meet its hot water demand from	
	solar water heaters, as far as possible.	
	Energy conservation measures such as installation	Will be adhered
	of CFLs/LED for the lighting the area outside the	
	building should be integral part of the project	
12	design and should be in place before project	
12	commissioning. Used CFLs, TFL and LED shall	
	be properly collected and disposed off/sent for	
	recycling as per the prevailing guidelines /rules of	
	the regulatory authority to avoid mercury	

	contamination.	
13	An environmental management plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rainwater Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure	Environment Management Plan submitted with Environmental Impact Assessment
14	The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013	

Part B: General Conditions

S.No.	General Condition	Status
i	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.	Is being adhered
ii	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Will be adhered
iii	Officials from the Regional Office of MoEF&CC, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities, and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Chandigarh.	
iv	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry	Is being adhered
V	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to act including revoking of the	Noted

S.No.	General Condition	Status
	environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
vi	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Is being adhered
vii	These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.	Is being adhered
viii	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest, and Climate Change at http://www.envfor.nic.in. The advertisement shall be Proposal No. INHR/NCP/64704/2015 Page 7 of 8 made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Chandigarh.	Is being adhered
ix	Any appeal against this 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
x	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of	Noted

S.No.	General Condition	Status
	the company by the proponent.	
xi	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Is being adhered
xii	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by email.	Is being adhered

Test Report

Sample Number:

VEL/PHC/A/01

Name & Address of the Project:

M/s Palm Hills Condominium Association

Estate Management Office, Sector - 77

Gurugram, (Haryana).

Report No.:

VEL/A/2104/12/001

Format No.: 7.8 F-01

Party Reference No.:

NIL 15/04/2021

Reporting Date: Period of Analysis:

12/04/2021 to 15/04/202

Receipt Date:

12/04/2021

Sample Description:

AMBIENT AIR QUALITY MONITORING

General Information:-

Sampling Location

Sample collected by

Sampling Equipment used

Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Ambient Temperature (°C)

Surrounding Activity

Scope of Monitoring

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

Club House

: Vardan EnviroLab Representative

RDS & FPS

VEL/RDS/FPS/01

Calibrated

Clear Sky

: 10/04/2021 to 11/04/2021

02:10 PM to 02:10 PM

Min. 20.0°C, Max. 33.0°C

Human & Vehicular Activities

: Regulatory Requirement

IS: 5182 & CPCB Guidelines

24 Hours.

: As per Work Order

S. No	Parameters Parameters	Test Method	Results	Units	Limit as per CPCB
1,	Particulate Matter (as PM - 10)	IS:5182 (P-23), Gravimetric Method, RA:2006	175.45	μg/m ³	100
2.	Particulate Matter (as PM - 2.5)	SOP No. VEL/SOP/01, Section No. SP 63:2013	97.87	μg/m ³	60
3.	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6), Jacob & Hochheiser, RA:2006	28.25	μg/m³	80
4.	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2), Modified West and Gaeke, RA:2012	15.41	μg/m³	80
5.	Carbon Monoxide (as CO) dan E	IS: 5182 (P-10), Gas Chromatography, RA:2003	wholat 0.82 day Env	mg/m ³	4.0
6.	Lead (as Pb) murg Lab Vardan	IS:5182 (P-22), Air Acetylene Method, RA:2009	*BDL(**DL0.05 μg/m³)	μg/m³	1.0

^{*}BDL- Below Detection Limit, **DL- Detection Limit

(Tested By) Analysi

Checked By)

Singh Singh

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

Sample Number:

Party:

Name & Address of

M/s Palm Hills Condominium Association Estate Management Office, Sector - 77

Gurugram, (Haryana).

Report No.:

VEL/AN/2104/12/001

Format No.:

7.8 F-01

Party Reference No.:

NIL

Reporting Date:

15/04/2021

Period of Analysis:

12/04/2021 to 15/04/202

Receipt Date:

12/04/2021

Sample Description:

General Information:

Sample collected by **Sampling Location**

Instrument Used

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Ambient Temperature (°C

Surrounding Activity

Scope of Monitoring Control measure if Any

Sampling & Analysis Protocol

Sampling Duration

Vardan EnviroLab Represent

Near Main Gate

Sound Level Meter

VEL/SLM/01

Calibrated

Clear Sky

10/04/2021 to 11/04/2021

06:00 AM to 06:00 AM

Min. 20.0°C, Max. 33.0°C

Human & Vehicular Activities

Regulatory Requirement

No any

CPCB Guidelines & IS-9989

24 Hours.

	de Vanden EnviroLab V. den EnviroLab Varoan	tran Envirolah Vardan Envirolah Vardan Enviro	Test Res	ult dB (A)	> 400
S. No.	Parameters To Lab Indian Envirol Lab Vanda In Vandan Envirol Lab Va	Varda Test Method Varda n Environab Vardan Envi rdan Environab Vardan I	Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	Unit
1.	L _{max}	IS -9989	62.7	53.4	dB(A)
2.	Lmin ErwirtsLah Wardan	Environ IS- 9989 an Enviro	Lab Vard46.1	Variation 37.8	dB(A)
3.	Leq Varines Emures Lab	IS -9989 15 Varda	50.4	41.8	dB(A)
4.	CPCB Limits in dB(*A) Leq (Residential Area)	rdan EnviroLob Vardan I b vondan EnviroLab Van	55.0 Enviro	45.0	dB(A)





Note: Terms & conditions refer on backside of test report

Test Report

Sample Number: Name & Address of

Sample Description:

Sampling Location:

Project:

VEL/PHC/W/01

M/s Palm Hills Condominium
Association Estate Management Office,

Sector - 77 Gurugram, (Haryana).

Domestic Water Sample

Pump Room Vardam Envirole

Sample Collected by Vardan EnviroLab Representative

Sampling & Analysis - APHA & IS Week ab Wardam Environ

Report No.:

Format No.:

Party Reference No.:

Reporting Date:

Period of Analysis:

Receipt Date:
Sampling Date:
Type of Sampling:

Sampling Quantity:
Preservation:

VEL/W/2104/12/001

7.8 F-01 NJL

17/04/2021

12/04/2021 to 17/04/2021

12/04/2021 10/04/2021 Grab

5.0 L+250ml.

Refrigerated

-Varo	an EnviroLab Varda nviroLab Vardan En	n EnviroLab Vardan EnviroLab Varda viroLab Vardan EnviroLab Vardan En	i EnviroLab Vardan E viroLab Vardan Envir	nviroLai oLab Va	Requiren IS:1056	nent as per 00 -2012#
S. No.	Parameter n Envirota I Envirolab Vardan oLab Vardan Enviro nvirolab Vardan En	ib Vardan Em <mark>Test-Method</mark> rdan EnviroLa EnviroLab Vardan EnviroLab Vardan I Lab Vardan EnviroLab Vardan Enviro viroLab Vardan EnviroLab Vardan En	b VardaResult (rollab InviroLab er dan Env Lab Vardan EnviroLa ViroLab Vardan Envir	Unit Lab Va	Acceptable Limits	Permissible Limits
1.	pH (at 25 °C)	APHA ,4500-H* B Electrometric Method	7.53	nvhyta ot als Va	6.5 to 8.5	No Relaxation
2.	Colour EnviroL	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 1.0 Hazen)	Hazen	5 5	15
3.	Turbidity	APHA, 2130 B, Nephlelometric Method	*BDL (**DL 1.0 NTU)	NTU	Frederick	5 5 5 7 10
4.	Odour Lab Vardam En	APHA, 2150 B, Threshold Test Method	Agreeable E wit)Late-Var	Agreeable	Agreeable
5.	Taste	APHA, 2160 B, Threshold Test Method	Agreeable	naireita ol ali Va	Agreeable	Agreeable
6.	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	b Varda 187.32	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	56.14	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	/roLab 179,36	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	36 21	mg/l	250	1000
10.	Cyanide as CN	ab Vardan En IS:3025 (P-27) dan EnviroLi	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	11.48	mg/l	30	100
12.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	/IFO -3 324.14	mg/l	500	2000
13.	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	virolab 23.14 an Envir	mg/l	200	400
14.	Fluoride as F	APHA, 4500-FD, SPADNS Method	0.42	mg/l	1.0	1.5
15.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	Lab Vard3.24 Enviro La	mg/l	Env 45	No Relaxation
16.	Iron as Fe	IS 3025 (Part-65)	0.21	mg/l	1.0	No relaxation
17.	Aluminum as Al	IS 3025 (Part-65) Wardan En	*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



(Checked By)

(Approved By

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



Test Report

Sample	No.: VEL/PHC/W/01	Lab Vardan EnviroLab Vardan Envir	oLab Vardar EnviroL	Re	port No: VEL/	W/2104/12/001		
Envi	oLab Vardan Envir InviroLab Vardan E	oLab Vardan EnviroLab Vardan Env nyiroLab Vardan EnviroLab Vardan	iroLab Vardan Enviro EnviroLab Vardan En	Lab Varda viroLab Vi		Requirement as per IS:10500 -2012#		
S. No	an E Parameter Vard Inviro Lab Vardan E Lab Vardan Enviro	an EnviroLab Test-MethodoviroLab Var nviroLab Vardan EnviroLab Vardan	dan EnvResult b Varda Enviro Lab Vardan Er	Unit L	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 an Enviro	IS 3025 (Part-65)	*BDL(**DL 0.01 mg/l)	mg/l	ETIME 5	Inches 15 Property		
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 an Enviro	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) ab Vardan	*BDL (**DL 0.0005 mg/l)	mg/l	0.001	No Relaxation		
31.	Total Coliform	IS 15185:2002(RA- 2016)	Absent	/100ml		etectable in any I sample		
32.	E. Coli	IS 15185:2002 (RA- 2016)	Absent	/100ml	Shall not be d	etectable in any sample		

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

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

Holon KANGBIAN SHARMA Jr. Lab Analyst

Checked By)



Vardan EnviroLab

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

Test Report

Sample Number:

VEL/PHC/ST/01

Report No.:

VEL/ST/2104/12/00

Name & address of the

M/s Palm Hills Condominium Association

Format No.:

7.8 F-01

Project:

Estate Management Office, Sector - 77

Party Reference No.:

NIL

Gurugr

Reporting Date:

15/04/2021

Gurugram, (Haryana).

Period of Analysis:

12/04/2021 to 15/04/202

Receipt Date:

12/04/2021

Sample Description:

Stack Emission Monitoring

General Information

Sampling Location

MI CP

Sample Collected by

Vardan EnviroLab Representative

Date of Sampling

10/04/2021

Sampling Duration (Minutes)

40.0

Stack attached to

DG Set (2000 KVA)

Make of stack

MS

Diameter of stack (m)

0.50 Mtr.

Height of stack (m)

45.0 Mtr.

Instruments calibration status

Calibrated

Meteorological Condition

Clear Sky

Ambient Temperature - Ta (°C)

32.0

Temperature of stack Gases – Ts (°C)

198.0

Velocity of stack Gases (m/sec.)

8.74 24.0

Flow rate of PM (LPM) Flow rate of Gas (LPM)

ab

Sampling condition

Isokinetic

Dueto ad usad

IS:11255

RESULTS

S. No.	lab Vardan EnviroLab Vard Vardan E Parameters Vardan E n EnviroLab Vardan Enviro n Vardan EnviroLab Vardan	an EnviroLab Vardan EnviroLa nviroLai Test Method Lab Vardan EnviroLab Vard Lab Vardan Envirolab Vardan Enviro	Results	Units	Limits as per CPCB
in Irr	PM (at 15 % O ₂ Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	62.33	mg/Nm³	75.00
E.W. 2. V	Sulphur Dioxide (as SO2)	IS: 11255 (P-2), Titrimetric Method, RA: 2003	24.54	mg/Nm³	Not Specified
3.	NOX (at 15 % O ₂ Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	195.45	ppmv	710.0
4.	Carbon Monoxide (as CO) (at 15 % O ₂ Correction)	SOP, SP-74, Issue No.01: 2018	60.14	mg/Nm³	150.0
Env 5.0	NMHC (at 15 %O ₂ Correction)	SOP, SP-75, Issue No.01: 2018	21.44	mg/Nm³	100.0

KANCIMANSHARMA Jr. Lab Analyst EIB TO NAYAK (Checked By) a agor

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



Name & address of the

Project:

M/s Palm Hills Condominium Association

Estate Management Office, Sector - 77

Gurugram, (Haryana).

Report No .:

VEL/ST/2104/12/002

Format No.:

7.8 F-01 NIL

Party Reference No.:

Reporting Date: Period of Analysis: 15/04/2021 12/04/2021 to 15/04/2021

Receipt Date:

12/04/2021

Sample Description:

Stack Emission Monitorin

General Information

Sampling Location

Sample Collected by

Date of Sampling

Sampling Duration (Minutes)

Stack attached to

Make of stack

Diameter of stack (m) Height of stack (m)

Instruments calibration status **Meteorological Condition**

Ambient Temperature - Ta (°C)

Temperature of stack Gases - Ts (°C Velocity of stack Gases (m/sec.)

Flow rate of PM (LPM) Flow rate of Gas (LPM)

Sampling condition

Vardan EnviroLab Representative

10/04/2021

35.0

DG Set (1010 KVA

MS

0.35 Mtr.

45.0 Mtr.

Calibrated

Clear Sky

33.0 175.0

8.42

23.0

2.0 Isokinetic

S. No.	ab Vardan EnviroLab Vard Vardan E Parameters Vardan E n EnviroLab Vardan Enviro n Vardan EnviroLab Vardan	an EnviroLab Vardan EnviroLab nviroLab Test Method nviroLab ab Vardan EnviroLab Vard	Results	Units	Limits as per CPCB
th VI.ro	PM (at 15 % O ₂ Correction)	IS: 11255 (P-1), Gravimetric Method, RA: 2003	49.25	mg/Nm³	75.00
2.0	Sulphur Dioxide (as SO2)	IS: 11255 (P-2), Titrimetric Method, RA: 2003	19.23	mg/Nm³	Not Specified
3.	NOX (at 15 % O2 Correction)	IS: 11255 (P-7), Colorimetric Method, RA: 2012	159.45	ppmv	710.0
4.	Carbon Monoxide (as O ₂) (at 15 % O ₂ Correction)	SOP, SP-74, Issue No.01: 2018	53.88	mg/Nm³	150.0
5.	NMHC (at 15 %O ₂ Correction)	SOP, SP-75, Issue No.01: 2018	22.63	mg/Nm³	1000NV

Note: Terms & conditions refer on backside of test report

Sample Number:

VEL/PHC/PN/01

Name & Address of Party:

M/s Palm Hills Condominium Association

Estate Management Office, Sector - 77

Gurugram, (Haryana).

Report No .:

VEL/PN/2104/12/001

Format No.: Party Reference No.:

7.8 F-01 NIL

Reporting Date:

15/04/2021

Period of Analysis:

12/04/2021 to 15/04/2021

Receipt Date:

12/04/2021

Sample Description:

General Information:

Sample collected by

Sampling Location

Instrument Used Instrument Code

Instrument Calibration Status

Meteorological condition during monitoring

Date of Monitoring

Scope of Monitoring

Control measure if Any Sampling & Analysis Protocol

Sampling Duration Parameter Required Vardan EnviroLab Representative

DG Room (1 NOS. 1010 KVA & 1 NOS. 2000 KVA)

Sound Level Meter

VEL/SLM/02 Calibrated

Clear Sky

10/04/2021

Regulatory Requirement

No any IS 9989

30 Minutes.

n Enviro	oLab Vardan Envirol	ab Vardan Envirol	ab Vardan EnviroLa	Result dB(A)	dan Enviro
S. No.	Parameters and a so varian EnviroLab Varian EnviroLab Varian EnviroLab Varian EnviroLab	Test Method	Inside D.G Room Result dB(A)	Outside of D.G Room (0.5 mtr Distance) Result dB(A)	Insertion Loss
n Emvir	Leg dan EnviroLab	CPCB Guideline & Indian Standard:9989	ab Vard /ardan 94.2	68.9	25.1
2.	CPCB Limits in dB (*A)	o Vardan EnviroLa an EnviroLab Varo	o Vardan EnviroLah an EnviroLab Varda	75.00	25.00

Note: - All DG Set are Installed in one Room



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

Sample Number:

Name & Address of

M/s Palm Hills Condominium

Association Estate Management Office,

Sector - 77 Gurugram, (Haryana).

Sample Description: Sampling Location:

Packing Status: Sampling & Analysis Protocol:

Near Club House Temp Sealed

Soil Sample

IS 2720 & SOP

Report No.:

VEL/S/2104/12/001

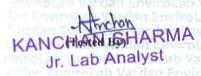
Format No.: 7.8 F-01 Party Reference No.: NIL

Reporting Date: 17/04/2021

Period of Analysis: 12/04/2021 to 17/04/2021

Receipt Date: 12/04/2021 Sampling Date: 10/04/2021 Type of Sampling: Composite Sampling Quantity: 2.0 Kg

S. No.	Parameter EnviroLab Varian EnviroLab Vardan Er	lan EnviroLab Vest-Method viroLab Vardan E viroLab Vardan EnviroLab Vardan Enviro	Result	Unit
I,	pH (at 25 °C)	IS : 2720 (P-26) by pH Meter	8.21	Frederick
2.	Conductivity	IS:14767 by Conductivity meter	0.340	mS/cm
3.	Color Carl Cawled ab Var	*SOP , SP-78,Issue No01& Issue Date-14/02/2013	Brown	- Carrier 190
4.	Water holding capacity	*SOP , SP-81,Issue No01& Issue Date-14/02/2013	39.25	%
5.	Bulk density	*SOP , SP-80,Issue No01& Issue Date-14/02/2013	1.35	gm/cc
6.	Chloride as Cl. Vinglah Vare	*SOP , SP-85,lssue No01& Issue Date-14/02/2013	39.52	mg/100g
7.	Calcium as Ca	*SOP, SP-82,Issue No01& Issue Date-14/02/2013	32.15	mg/100g
8.	Sodium as Na ab Wardam E	*SOP , SP-84,Issue No01& Issue Date-14/02/2013	50.41	mg/kg
9.	Potassium as K	*SOP , SP-84,Issue No -01& Issue Date-14/02/2013	122.54	kg/hec.
10.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.56	%
11.	Magnesium as Mg	*SOP , SP-83,1ssue No01& Issue Date-14/02/2013	24.25	mg/100g
12.	Available Nitrogen as N	IS:14684 Distillation Method	210.55	kg./hec.
13.	Available Phosphorus	*SOP , SP-86,Issue No01& Issue Date-14/02/2013	24.15	kg./hec.
14.	Zinc (as Zn)	USEPA 3050B	16.41/=	mg/kg
15.	Manganese (as Mn)	USEPA 3050B	9.85	mg/kg
16.	Lead (as Pb)	USEPA 3050B	1.08	mg/kg
17.	Cadmium (as Cd)	ndan EnviroLaUSEPA 3050B nviroLational	0.76	mg/kg
18.	Chromium (as Cr)	USEPA 3050B	0.65	mg/kg
19.	Copper (as Cu)	Varian Enviro USEPA 3050B EnviroLata Va	4.96	mg/kg
20.	Soil Texture	*SOP, SP-87,Issue No01& Issue Date-14/02/2013	Silty Loam	







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

Test Report

Sample Number:

Name & Address of Party:

VEL/PHC/WW/01

M/s Palm Hills Condominium Association

Estate Management Office, Sector - 77

Gurugram, (Haryana).

Sample Description: Sampling Location:

Sample Collected by: Sampling & Analysis

Protocol:

Waste Water Sample

STP Plant (STP Inlet) Vardan EnviroLab Representative

APHA & IS

Report No.: VEL/WW/2104/12/001

Format No.: 7.8 F-01
Party Reference No.: NIL

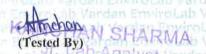
Reporting Date: 17/04/2021

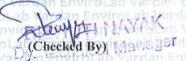
Period of Analysis: 12/04/2021 to 17/04/2021

Receipt Date 12/04/2021 Sampling Date: 10/04/2021 Preservation: Refrigerated

Sampling Quantity: 2.0 Ltr

S. No.	Parameter rdan EnviroLab	InviroLab Vardan EnviroLab Vardan EnviroL Vardan EnviroLal Test-MethodnyiroLab Vardan	Result	Unit
Elsvir	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method:2017	6.98	ni I ale Vari
2.	Total Suspended Solid	APHA 2540 D Gravimetric Method	209.00	mg/l
3.	Oil & Grease	APHA 5520 B Parttition Gravimetric Method:2017	10.60	mg/l
4.	BOD (3 Days at 27 °C)	APHA, 5210 C Ultimate BOD Test:2017	127.00	mg/l
5.	COD Varian Francis als Va	APHA 5220 B Open Reflux Method:2017	478.12	mg/l
6.	Electrical Conductivity	APHA 2510 B Conductivity Meter Method:2017	785.00	μS/cm
7.	Total Coliform	IS 1622:1981- (RA 2009)	1400	MPN/100ml
8.	E-coli a Vardan EnviroLab	Vargan Envi IS 1622:1981- (RA 2009)	200 / 200	MPN/100ml







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



Sample Number:

Name & Address of Party:

VEL/PHC/WW/02

M/s Palm Hills Condominium Association

Estate Management Office, Sector - 77

Gurugram, (Haryana). olab Vard

Sample Description: Sampling Location:

Sample Collected by: Parameter Required:

Waste Water Sample STP Plant (STP Outlet)

Vardan EnviroLab Representative

As per Work Order

Report No .:

Format No.:

Party Reference No.:

Reporting Date:

Period of Analysis: Receipt Date

Sampling Date:

Preservation: Sampling Quantity: 12/04/2021 to 17/04/202 12/04/2021

17/04/2021

7.8 F-01

NIL

10/04/2021 Refrigerated

ian En	riroLab Vardan Env	roLab Vardan EnviroLab Vardan Env	iroLab Vard	in EnviroLal	Standards for Discharge as per
Vardar	r EnviroLab Vardan	EnviroLab Vardan EnviroLab Vardar	EnviroLab \	Vardan Envir	CPCB POLAR VA
S. No.	Parameter	roLab Vargan EnviroLab Vargan Em	Result En	an EnviroLa	In-Land

Varda	r EnviroLab Vardan	EnviroLab Vardan EnviroLab Vardan	EnviroLab	Vardan Envir lan Envirol a	СРСВ		
S. No.	Parameter EnviroLa InviroLab Vardan E Lab Vardan Envirol IroLab Vardan Env	Vardan EnvTest - Methodian Enviro La Iviro Lab Vardan Enviro Lab Vardan E ab Vardan Enviro Lab Vardan Enviro Iro Lab Vardan Enviro Lab Vardan Enviro	Result En InviroLab Va Lab Vardan IroLab Vard	ring Unit Vard rdan Enviro nviroLab Va an EnviroLal	In-Land Surface Water	Public Sewers	Land for Irrigation
L. En	pH (at 25 °C)	APHA 4500-H+ B Electrometric Method:2017	7.43	im EnviroLa	5.5-9.0	5.5-9.0	5.5-9.0
2.	Total Suspended Solid	APHA 2540 D Gravimetric Method	49.36	mg/l	100	600	200
3.	Oil & Grease	APHA 5520 B Parttition Gravimetric Method:2017	1.68	mg/l	10.0	20.0	10.0
4,	BOD (3 Days at 27 °C)	APHA, 5210 C Ultimate BOD Test:2017	22.00	mg/l	30.0	350.0	100.0
5.	COD rdan EnviroLa	APHA 5220 B Open Reflux Method:2017	79.30	mg/l lar	250.0	ilab ilan	nsn <u>F</u> ovi
6.	Conductivity	APHA 2510 B Conductivity Meter Method:2017	735.0	μS/cm	rdan Env	relak V	ergian En
7.	Total Coliform	IS 1622:1981- (RA 2009)	800	MPN/100ml	oLab Vari	Jan Env	rolato Va
8.	E-coliab Vandan Emy	IS 1622:1981- (RA 2009)	20	MPN/100ml	a Vardan	Engles	ib varzaj

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