

Date: 18/10/2022

To,
The Additional Principal Chief Conservator of Forests(C)
MoEF & CC,
Regional Office (Southern Zone),
4th Floor, E & F Wings, Kendriya Sadan,
17th Main Road, Koramangala,
BENGALURU — 560 034.

Sub: Submission of Half yearly EC compliance report w.r.t proposed Residential Project "**Marine View at Marine Drive**" at Plot No. D4 & D5 in Sy. No. 843 pt. at Emakulam Village, Kochi Municipal Corporation, Kanayannur Taluk, Ernakulam District, by Puravankara Projects Limited.

Ref: Environmental Clearance No. 121/2015 dated 29.12.2015.

With reference to the above subject, we are herewith submitting half yearly compliance report for the period **April 2022 to September 2022** on the status of conditions stipulated in the Environmental Clearance for our Existing, Ongoing and Proposed buildings at Plot No. D4 & D5 in Sy. No. 843 pt. at Emakulam Village, Kochi Municipal Corporation, Kanayannur Taluk, Ernakulam District.

Also we are submitting supportive enclosures for the Compliance report for your kind reference.

Thanking you,

For **M/s Puravankara Ltd,**

(Authorized signatory)



Copy to;

SEIAA, Directorate of Environment and Climate Change, Thiruvananthapuram, Kerala.

PURAVANKARA LIMITED

Branch Office: 1st Floor, Areekal Mansion, Opp. Malayala Manorama, Panampilly Avenue, Kochi - 682 036. Tel: +91 - 484 - 2886200 +91- 484 - 2319904 / 06
Registered Office: #130/1, Ulsoor Road, Bengaluru - 560 042 Tel: +91 80 2559 9000 / 4343 9999 Fax: +91 80 2559 9350
Email: info@puravankara.com URL: www.puravankara.com CIN: L45200KA1986PLC051571

AN ISO 9001 COMPANY

**HALF YEARLY COMPLIANCE REPORT TO
ENVIRONMENTAL CLEARANCE CONDITIONS**

(FOR THE PERIOD APRIL 2022 TO SEPTEMBER 2022)

(EC Ref No: 275/SEIAA/KL/1278/2014 dated 28.12.2014)

FOR

**("Marine View at Marine Drive")
at Plot No. D4 & D5 in Sy. No. 843 pt. at Ernakulam Village, Kochi Municipal Corporation,
Kanayannur Taluk, Emakulam District.**

SUBMITTED BY CO-OWNER

**PREAPARED BY CO-OWNER
M/s SOBHA LIMITED
5th Floor west wing , Jomer Symphony
Ponnurunni North, Vyttila,
Kochi-682019
Telephone No: +91-484-2977780,60**

**SUBMITTED BY CO-OWNER
M/s. PURVANKARA LIMITED
G-261,.GR. FLR
Panampilly Avenue
Kochi, Kerala-682036
Telephone No: +91-484-2886209**

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PART A – GREEN CONDITIONS

Sl. No.	EC Conditions	Compliance Status
A	Adequate rainwater harvesting facilities shall be managed for.	Provision for rain water harvesting with storage tanks of total capacity 15.66 ML will be provided and the same will be used for domestic purpose post treatment.
2	Technology and capacity of STP to be indicated with discharge point (if any) of the treated effluent.	STP Capacity of 870 KLD (290 X 3 modules) with ASP treatment technology is proposed.
3	Effluent water not conforming to specifications shall not be let out to water bodies.	STP treated water shall confirm to KSPCB effluent discharge standards.
4	Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured.	Treated water from STP shall be used for all secondary purposes, like toilet flushing, gardening purposes.
5	Dual plumbing for flushing shall be done.	Proposed Dual Plumbing System for the separation of grey and black water shall be implemented.
6	Provisions for disposal of e-wastes. Solid wastes, non- bio degradable and separate parking facilities for the building shall be provided.	Provision shall be made for storage of E-waste, solid waste and non-biodegradable waste shall be disposed to authorized approved vendor.
7	Generation of solar energy to be mandatory for own use and /or to be provided to the grid.	Provision shall be made for generation of solar energy.
8	There shall be no compromise on safety conditions and facilities to be provided by the project proponent, which shall be ensured for occupation, regularization or consent to operate.	All the required safety facilities shall be in place before occupancy of the units.

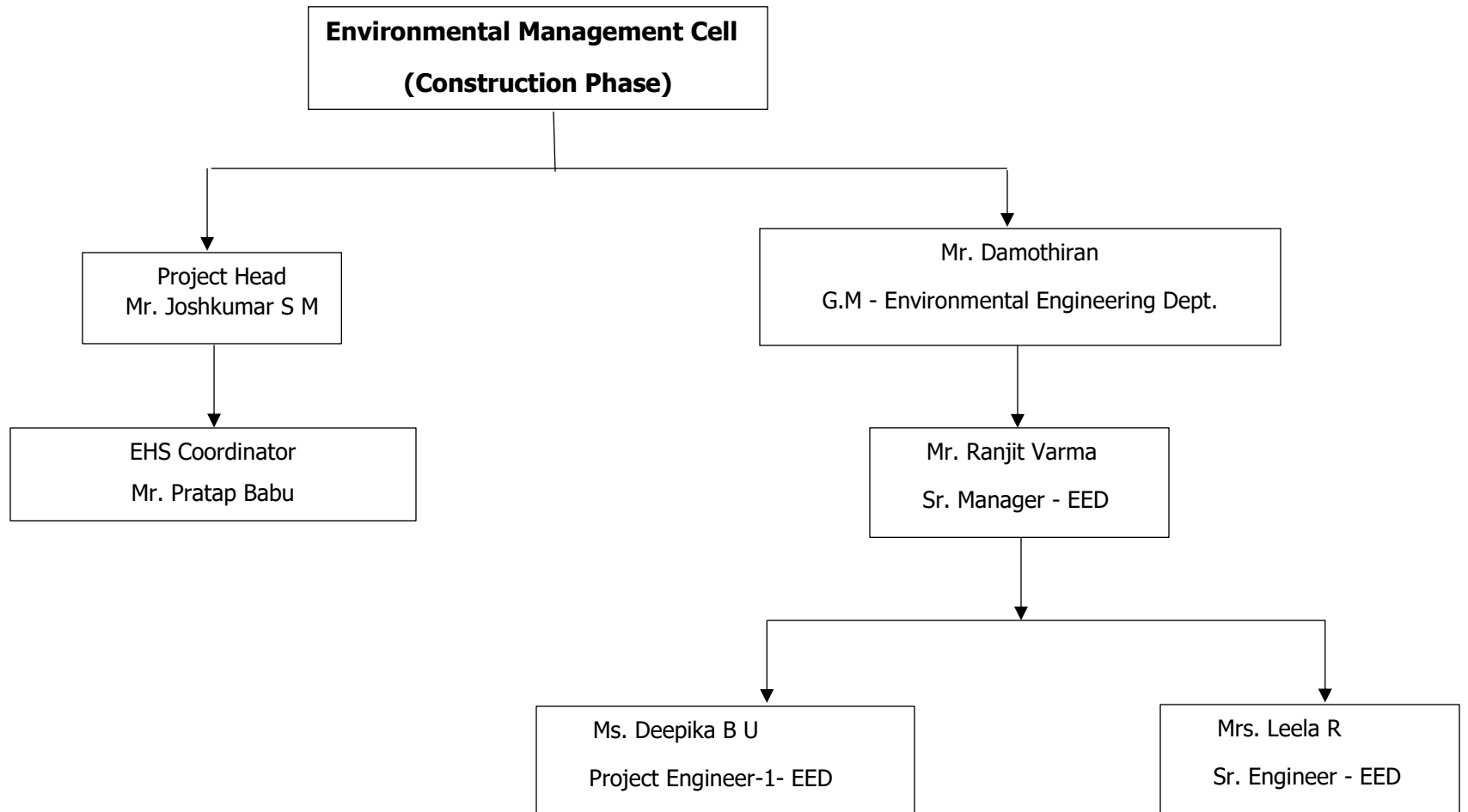
PART – B GENERAL CONDITIONS:

Sl. No.	EC Conditions	Compliance Status
1	Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.	Agreed
2	Environment Monitoring Cell agreed under the affidavit filed by the proponent should be formed and made functional.	Environmental Management Cell / Unit is set up to ensure implementation and monitoring of environmental safeguards at project site. EMC chart is attached as Annexure-1.
3	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Avenue plantation area shall be identified and plants like Delonix regia, Mimosa pudica, Syzygium cumini, Cassia fistula etc. will be used as avenue trees.
4	The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the national grid in future	Agreed.
5	Safety measures should be implemented as per the Fire and Safety Regulations.	Agreed.
6	STP should be installed and made functional as per KSPCB guidelines including that for solid waste management.	STP and OWC shall be installed and made ready for functional before occupancy of the units.
7	The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility	Agreed.
8	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Trees will be cut and planted as per submission to SEIAA for EC
9	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.	Consent to Establishment is obtained from KSPCB and copy of the same was submitted during previous compliance report submissions.
10	All other statutory clearances should be obtained, as applicable, by project proponents from the respective	All the necessary clearances shall be obtained.

	competent authorities including that for blasting and storage of explosives.	
11	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	Noted.
12	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner	Noted.
13	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of 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 EIA Notification, 2006.	Agreed.
14	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	Advertise was given regarding accordance of EC for our proposed project in "The Deccan Chronicle & local Malayalam" newspapers on 18 th of January, 2016 and copy of the same has been already submitted to RO office, MoEF and in the previous compliances.
15	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the	Copy of Environmental clearance has been sent to the secretary of corporation of Kochi on 18.01.2016, Ack. Copy of the same submitted during earlier compliance

	proposal. The Environmental Clearance shall also be put on the website of the company by the proponent	report submission. The copy of EC is available on project website.
16	The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and 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 respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.	Six monthly compliance reports along with monitoring reports are being submitted to Ministry and its Regional office, Bangalore through E-mail as per the MoEF Notification dated 26 th November 2018. Latest Monitoring reports are attached as Annexure-2 . The copy of compliance report has been uploaded on the project website
17	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.	Complied.
18	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Affidavit was submitted to SEIAA, Kerala regarding the EC conditions shall be scrupulously followed on 21.01.2016. Acknowledgement copy were submitted during previous compliance report submissions.

ANNEXURE-1
EMC Chart



Roles & Responsibilities of Environmental Management Cell:

Project Execution Team:

- PEH Should be aware of the Conditions stated in the Environmental Clearance granted to the site by MoEF & Consent for Establishment granted by State PCB.
- Shall initiate necessary measures to ensure the environmental statutory compliances.
- A qualified EHS coordinator should be able to identify the activities that can cause noise, air, water and soil pollution and initiate mitigation measures to avoid the adverse impact on the surrounding environment.
- Shall enforce safety standards as per NBC.
- Enforcing necessary corrective action/ preventive action towards the observed environmental incidents.

Environmental Engineering Department:

- Obtaining Environmental statutory approvals & timely renewal of the same.
- Scheduling the timely Environmental Audit & Environmental monitoring at site level.
- To Conduct Environmental Audit on quarterly basis.
- To conduct monitoring of Environmental parameters like air, Ground water, noise, DG stack and soil on quarterly basis.
- Keep updating the results of monitoring activities to project team along with environmental incident register.
- Submitting half yearly EC compliance status report to MoEF RO/ SEIAA.
- Instructions to project team in case of any Environmental incidents taken place at site.
- Conducting periodic training programs to educate construction staff on best environmental management practices to be followed at site.

ANNEXURE-2
MONITORING REPORTS



POLUCHEM LABORATORIES (P) LTD.

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PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

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TEST REPORT

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Client Name & Address	Certificate No	PL/AMB/RT/181/2022	(ÜLR NO:TC658922000000181F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis Started	27/06/2022	
	Sample Code	G/F/181/2022	
	Sample description	Ambient air – Near East Side	
	Sample code given by client	Nil	

Parameters	Test Method	Results	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	48.4 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	23.6 µg/m ³	60 µg/m ³
Sulphur dioxide(SO ₂)	I S 5182 Part 2 2001 RA 2017	8.8 µg/m ³	80 µg/m ³
Nitrogen dioxide(NO ₂)	IS 5182 Part 06 2006 RA2017	9.3 µg/m ³	80 µg/m ³
Carbon monoxide(CO)	SOP/PCL/COA/17	<1 mg/m ³	4 mg/m ³

NAAQS-National Ambient Air Quality Standards

Remark:- As per the above test results the sample conforms to the limit of NAAQS

End of the Report

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QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD



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Client Name & Address	Certificate No	PL/AMB/RT/5241/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis Started	27/06/2022
	Sample Code	G/F/5241/2022
	Sample description	Ambient air – Near East Side
	Sample code given by client	Nil

Parameters	Test Method	Results	Limit as per NAAQS
Lead(Pb)	IS 5182 Part 22 2004RA2017	< 0.1 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$
Ammonia(NH_3)	CPCB	< 1 $\mu\text{g}/\text{m}^3$	400 $\mu\text{g}/\text{m}^3$
Arsenic(As)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	6 ng/m^3
Nickel (Ni)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	20 ng/m^3
Ozone (O_3)	IS 5182 Part 09 1974 RA2017	< 1 $\mu\text{g}/\text{m}^3$	180 $\mu\text{g}/\text{m}^3$
Benzene(C_6H_6)	IS 5182 Part 11 2006	< 0.1 $\mu\text{g}/\text{m}^3$	5 $\mu\text{g}/\text{m}^3$
Benzo (a) pyrene (BaP)	IS 5182 Part 12 2004	< 0.1 ng/m^3	1 ng/m^3

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QUALITY MANAGER
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Client Name & Address	Certificate No	PL/AMB/RT/185/2022	(ULR NO:TC658922000000185F)
M/s Sobha Limited	Date of issue	02/07/2022	
Marina One	Date of monitoring	25/06/2022	
Survey No: 843,	Date of sample received	27/06/2022	
Ernakulam Village	Date of analysis Started	27/06/2022	
Kanayannur Taluk	Sample Code	G/F/185/2022	
Goshree Pachalam Road	Sample description	Ambient air - Near West Side	
Marine Drive,Kochi	Sample code given by client	Nil	

Parameters	Test Method	Results	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	52.4 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	28.7 µg/m ³	60 µg/m ³
Sulphur dioxide(SO ₂)	I S 5182 Part 2 2001 RA 2017	5.5 µg/m ³	80 µg/m ³
Nitrogen dioxide(NO ₂)	IS 5182 Part 06 2006 RA2017	12.2 µg/m ³	80 µg/m ³
Carbon monoxide(CO)	SOP/PCL/COA/17	<1 mg/m ³	4 mg/m ³

NAAQS-National Ambient Air Quality Standards

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Client Name & Address	Certificate No	PL/AMB/RT/5245/2022
M/s Sobha Limited	Date of issue	02/07/2022
Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis Started	27/06/2022
	Sample Code	G/F/5245/2022
	Sample description	Ambient air – Near West Side
	Sample code given by client	Nil

Parameters	Test Method	Results	Limit as per NAAQS
Lead(Pb)	IS 5182 Part 22 2004RA2017	< 0.1 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$
Ammonia(NH_3)	CPCB	< 1 $\mu\text{g}/\text{m}^3$	400 $\mu\text{g}/\text{m}^3$
Arsenic(As)	IS 5182 Part 22 2004 RA2017	<0.1 ng/m^3	6 ng/m^3
Nickel (Ni)	IS 5182 Part 22 2004 RA2017	<0.1 ng/m^3	20 ng/m^3
Ozone (O_3)	IS 5182 Part 09 1974 RA2017	< 1 $\mu\text{g}/\text{m}^3$	180 $\mu\text{g}/\text{m}^3$
Benzene(C_6H_6)	IS 5182 Part 11 2006	< 0.1 $\mu\text{g}/\text{m}^3$	5 $\mu\text{g}/\text{m}^3$
Benzo (a) pyrene (BaP)	IS 5182 Part 12 2004	< 0.1 ng/m^3	1 ng/m^3

NAAQS-National Ambient Air Quality Standards

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QUALITY MANAGER

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Client Name & Address	Certificate No	PL/AMB/RT/183/2022	(ULR NO:TC6589220000000183F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis Started	27/06/2022	
	Sample Code	G/F/183/2022	
	Sample description	Ambient air - Near North Side	
	Sample code given by client	Nil	

Parameters	Test Method	Results	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	49.6 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	21.3 µg/m ³	60 µg/m ³
Sulphur dioxide(SO ₂)	I S 5182 Part 2 2001 RA 2017	6.2 µg/m ³	80 µg/m ³
Nitrogen dioxide(NO ₂)	IS 5182 Part 06 2006 RA2017	10.6 µg/m ³	80 µg/m ³
Carbon monoxide(CO)	SOP/PCL/COA/17	<1 mg/m ³	4 mg/m ³

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SRPEJA RANESH
CHARTERED ANALYST
POLUCHEM LABORATORIES (P) LTD.



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Client Name & Address	Certificate No	PL/AMB/RT/5243/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis Started	27/06/2022
	Sample Code	G/F/5243/2022
	Sample description	Ambient air – Near North Side
	Sample code given by client	Nil

Parameters	Test Method	Results	Limit as per NAAQS
Lead(Pb)	IS 5182 Part 22 2004RA2017	< 0.1 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$
Ammonia(NH_3)	CPCB	< 1 $\mu\text{g}/\text{m}^3$	400 $\mu\text{g}/\text{m}^3$
Arsenic(As)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	6 ng/m^3
Nickel (Ni)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	20 ng/m^3
Ozone (O_3)	IS 5182 Part 09 1974 RA2017	< 1 $\mu\text{g}/\text{m}^3$	180 $\mu\text{g}/\text{m}^3$
Benzene(C_6H_6)	IS 5182 Part 11 2006	< 0.1 $\mu\text{g}/\text{m}^3$	5 $\mu\text{g}/\text{m}^3$
Benzo (a) pyrene (BaP)	IS 5182 Part 12 2004	< 0.1 ng/m^3	1 ng/m^3

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QUALITY MANAGER
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TC-6589

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Client Name & Address	Certificate No	PL/AMB/RT/184/2022	(ULR NO:TC658922000000184F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis Started	27/06/2022	
	Sample Code	G/F/184/2022	
	Sample description	Ambient air - Near South Side	
	Sample code given by client	Nil	

Parameters	Test Method	Results	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	43.6 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	24.1 µg/m ³	60 µg/m ³
Sulphur dioxide (SO ₂)	I S 5182 Part 2 2001 RA 2017	6.2 µg/m ³	80 µg/m ³
Nitrogen dioxide (NO ₂)	IS 5182 Part 06 2006 RA2017	8.7 µg/m ³	80 µg/m ³
Carbon monoxide (CO)	SOP/PCL/COA/17	<1 mg/m ³	4 mg/m ³

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For and on behalf of
POLUCHEM LABORATORIES (P) LTD
AUTHORIZED SIGNATORYSRIJAYA RAMESH
13/07/2022
POLUCHEM LABORATORIES (P) LTD



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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Client Name & Address	Certificate No	PL/AMB/RT/5244/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis Started	27/06/2022
	Sample Code	G/F/5244/2022
	Sample description	Ambient air – Near South Side
	Sample code given by client	Nil

Parameters	Test Method	Results	Limit as per NAAQS
Lead(Pb)	IS 5182 Part 22 2004RA2017	< 0.1 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$
Ammonia(NH_3)	CPCB	< 1 $\mu\text{g}/\text{m}^3$	400 $\mu\text{g}/\text{m}^3$
Arsenic(As)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	6 ng/m^3
Nickel (Ni)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	20 ng/m^3
Ozone (O_3)	IS 5182 Part 09 1974 RA2017	< 1 $\mu\text{g}/\text{m}^3$	180 $\mu\text{g}/\text{m}^3$
Benzene(C_6H_6)	IS 5182 Part 11 2006	< 0.1 $\mu\text{g}/\text{m}^3$	5 $\mu\text{g}/\text{m}^3$
Benzo (a) pyrene (BaP)	IS 5182 Part 12 2004	< 0.1 ng/m^3	1 ng/m^3

NAAQS-National Ambient Air Quality Standards

Remark:- As per the above test results the sample conforms to the limit of NAAQS

End of the Report

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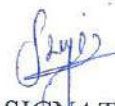
Client Name & Address	Certificate No	PL/AMB/RT/182/2022	(ULR NO:TC658922000000182F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis Started	27/06/2022	
	Sample Code	G/F/182/2022	
	Sample description	Ambient air – Middle of the project site	
	Sample code given by client	Nil	

Parameters	Test Method	Results	Limit as per NAAQS
Particulate Matter (PM ₁₀)	I S 5182 Part 23 2006RA2012	42.2 µg/m ³	100 µg/m ³
Particulate Matter (PM _{2.5})	CPCB	23.3 µg/m ³	60 µg/m ³
Sulphur dioxide(SO ₂)	I S 5182 Part 2 2001 RA 2017	6.5 µg/m ³	80 µg/m ³
Nitrogen dioxide(NO ₂)	IS 5182 Part 06 2006 RA2017	10.2 µg/m ³	80 µg/m ³
Carbon monoxide(CO)	SOP/PCL/COA/17	<1 mg/m ³	4 mg/m ³

NAAQS-National Ambient Air Quality Standards

Remark:- As per the above test results the sample conforms to the limit of NAAQS

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Client Name & Address M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Certificate No	PL/AMB/RT/5242/2022
	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis Started	27/06/2022
	Sample Code	G/F/5242/2022
	Sample description	Ambient air - Middle of the project site
	Sample code given by client	Nil

Parameters	Test Method	Results	Limit as per NAAQS
Lead(Pb)	IS 5182 Part 22 2004RA2017	< 0.1 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$
Ammonia(NH_3)	CPCB	< 1 $\mu\text{g}/\text{m}^3$	400 $\mu\text{g}/\text{m}^3$
Arsenic(As)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	6 ng/m^3
Nickel (Ni)	IS 5182 Part 22 2004 RA2017	< 0.1 ng/m^3	20 ng/m^3
Ozone (O_3)	IS 5182 Part 09 1974 RA2017	< 1 $\mu\text{g}/\text{m}^3$	180 $\mu\text{g}/\text{m}^3$
Benzene(C_6H_6)	IS 5182 Part 11 2006	< 0.1 $\mu\text{g}/\text{m}^3$	5 $\mu\text{g}/\text{m}^3$
Benzo (a) pyrene (BaP)	IS 5182 Part 12 2004	< 0.1 ng/m^3	1 ng/m^3

NAAQS-National Ambient Air Quality Standards

Remark:- As per the above test results the sample conforms to the limit of NAAQS

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Client Name & Address	Certificate No:	PL/SG/RT/186/2022	(ULRNO:TC658922000000186F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -62.5 KVA(G1)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/186/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	131 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	3.98 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	31 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.012 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/5246/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack - Diesel Generator -62.5 KVA(G1)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5246/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.0625 m	--
02	Cross Sectional Area	---	0.003 m ²	--
03	NOx + HC	I S 11255 part 7 2005RA 2017 GCM Method	0.041 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.026 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/187/2022	(ULRNO:TC658922000000187F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -62.5 KVA(SR NO.0600162)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/187/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	132 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	4.57 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	60 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.027 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/5247/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack – Diesel Generator -62.5 KVA(SR NO.0600162)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5247/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.0764 m	--
02	Cross Sectional Area	---	0.005 m ²	--
03	NO _x + HC	I S 11255 part 7 2005RA 2017 GCMMethod	0.039 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.025 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/188/2022	(ULRNO:TC658922000000188F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -100KVA-(G1)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/188/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	127 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	4.18 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	89 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.027 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Certificate No:	PL/SG/RT/5248/2022
	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack – Diesel Generator -100KVA-(G1)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5248/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.1016 m	--
02	Cross Sectional Area	---	0.008 m ²	--
03	NOx + HC	I S 11255 part 7 2005RA 2017 GCMethod	0.046 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.035 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/189/2022	(ULRNO:TC658922000000189F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -100KVA-(G2)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/189/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	132 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	4.17 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	88 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.032 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/5249/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack - Diesel Generator -100KVA-(G2)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5249/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.1016 m	--
02	Cross Sectional Area	---	0.008 m ²	--
03	NOx + HC	I S 11255 part 7 2005RA 2017 GC Method	0.056 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.043 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/190/2022	(ULRNO:TC658922000000190F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -125KVA-I	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/190/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	132 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	4.98 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	105 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.027 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/5250/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack – Diesel Generator -125KVA-I
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5250/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.1016 m	--
02	Cross Sectional Area	---	0.008 m ²	--
03	NOx + HC	I S 11255 part 7 2005RA 2017 GCMethod	0.056 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.037 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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Client Name & Address	Certificate No:	PL/SG/RT/191/2022	(ULRNO:TC658922000000191F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -125KVA-II (SR NO.01/PAM1/811204)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/191/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	127 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	4.86 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	104 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.028 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

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TEST REPORT


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Client Name & Address M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Certificate No:	PL/SG/RT/5251/2022
	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack - Diesel Generator -125KVA-II (SR NO.01/PAM1/811204)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5251/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.1016 m	--
02	Cross Sectional Area	---	0.008 m ²	--
03	NOx + HC	IS 11255 part 7 2005RA 2017 GC Method	0.055 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.038 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

End of the Report

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SREEJA RAMESH
QUALITY MANAGER

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Client Name & Address	Certificate No:	PL/SG/RT/192/2022	(ULRNO:TC658922000000192F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -125KVA-III (SR NO.11113944)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/192/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	130 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	5.71 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	121 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.034 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

End of the Report

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Client Name & Address M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Certificate No:	PL/SG/RT/5252/2022
	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack - Diesel Generator -125KVA-III (SR NO.11113944)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5252/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.1016 m	--
02	Cross Sectional Area	---	0.008 m ²	--
03	NOx + HC	IS 11255 part 7 2005RA 2017 GCM Method	0.052 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.039 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

End of the Report

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Client Name & Address	Certificate No:	PL/SG/RT/193/2022	(ULRNO:TC658922000000193F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue	02/07/2022	
	Date of monitoring	25/06/2022	
	Date of sample received	27/06/2022	
	Date of analysis	27/06/2022	
	Sample Description	Stack - Diesel Generator -125KVA-IV (SR NO.1901010472)	
	Sample Code given by client	Nil	
	Sample Identification No:	G/F/193/2022	

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Temperature	I S 11255 part 3 2008	125 °C	--
02	Ambient Temperature	I S 11255 part 3 2008	28 °C	--
03	Velocity of emission	I S 11255 part 3 2008	5.28 m/sec	--
04	Quantity of Gas discharged to Atmosphere	I S 11255 part 3 2008	113 Nm ³ /hr	--
05	Particulate matter	I S 11255 part 1 1985RA 2014	0.022 g/kW-hr	≤0.2 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/SG/RT/5253/2022
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Date of sample received	27/06/2022
	Date of analysis	27/06/2022
	Sample Description	Stack - Diesel Generator -125KVA-IV (SR NO.1901010472)
	Sample Code given by client	Nil
	Sample Identification No:	G/F/5253/2022

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limits
01	Diameter	---	0.1016 m	--
02	Cross Sectional Area	---	0.008 m ²	--
03	NOx + HC	IS 11255 part 7 2005RA 2017 GCMethod	0.054 g/kW-hr	≤4.0 g/kW-hr
04	Carbon Monoxide	IS 13270:1992	0.044 g/kW-hr	≤3.5 g/kW-hr

Remark:- As per the above test results the Emission conforms to the limit

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CERTIFICATE OF MONITORING

Client Name & Address	Certificate No	PL/SD/RT/5278/2022 (ULR NO:TC658922000005278F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue	02/07/2022
	Date of monitoring	25/06/2022
	Sample description	DG Noise Level
	Sample code given by client	Nil

Sl. No.	Monitoring Location	Results
01	Diesel Generator -62.5KVA -I(G2)	70.6 dB(A)
02	Diesel Generator -62.5KVA -II(SR NO.0600162)	73.2 dB(A)
03	Diesel Generator -100 KVA-I(G1)	70.8 dB(A)
04	Diesel Generator -100 KVA-II(G2)	72.7 dB(A)
05	Diesel Generator -125KVA -I	69.9 dB(A)
06	Diesel Generator -125KVA -II(SR.NO.01/PAM1/811204)	73.6 dB(A)
07	Diesel Generator -125 KVA -III(SR NO.11113944)	73.9 dB(A)
08	Diesel Generator -125 KVA -IV(SR NO.1901010472)	74.2 dB(A)
Limit		75 dB(A)

Note: Sound Level Measured at a distance 1M from the enclosure surface

For Poluchem Laboratories (P) Ltd.

Authorized Signatory


RAMESH



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TEST REPORT

Ref.No. PL/RT/DW/1064/2022
(ULR NO:TC6589220000001064F)

Page 01 of 02

Date of Issue:02 /07/2022

Name & address of customer

: M/s Sobha Limited,
Sobha Marina One project, Ernakulam.
: Poluchem Laboratory Sample Collector
: IS 3025 Part 1 1987- Reaffirmed 2014
: Ground Water
: Borewell Water
: F/1064/2022
: 25/06/2022
: 25/06/2022
: 27/06/2022
: 02/07/2022

Sample drawn by
Sampling Method
Sample description
Sample Location
Sample code
Date of sample collected
Date of receipt of sample
Date of analysis started
Date of completion of analysis

Parameters tested	Test method	Result	Acceptable Limit As per IS - 10500 - 2012
Color	IS 3025 (P) 04 - 1983 RA2017	60 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 - 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 - 1984 RA2017	22 NTU	1 NTU
pH	IS 3025 (P) 11 - 1983 RA 2017	5.67	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	2654 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	465 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986 RA2014	120.6 mg/l	200 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 - 1986 RA2014	38.4 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 - 1986 RA2014	BDL(MDL-0.1 mg/l)	Min 0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 - 1988 RA2014	1564.7 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 - 1991 RA2014	89.4 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 - 1994 RA2014	34.2 mg/l	30 mg/l
Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	2.1 mg/l	1.0 mg/l
Phenolic Compound as C ₆ H ₅ OH	IS 3025 (P) 43-1992 RA2014	BDL(MDL-0.001mg/l)	0.001 mg/l
Nitrate as NO ₃	IS 3025 (P) 34- 1988 RA2014	6.3 mg/l	45 mg/l
Fluoride as F	APHA 4500-F-D	0.25 mg/l	1 mg/l

For Poluchem Laboratories (P) Ltd.

Authorized signatory

SREEJA RAO

QUALITY MANAGER

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Page 02 of 02

Continuation of Test Certificate No: 1064/2022

MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit as per IS 10500 - 2012
Coliforms	MPN/100ml	IS 1622: 1981 RA 2009	30	Shall not be detectable in 100 ml sample
E coli	Present or Absent/100ml	IS 1622: 1981 RA 2009	Absent	Shall not be detectable in 100 ml sample

Remark: As per the above test results the parameter pH, Colour, Turbidity, TDS, Total Hardness, Calcium, Magnesium, Chloride, Iron & Coliforms do not conform to the limit IS 10500 for drinking water purpose

Residual Chlorine is applicable only when the water sample is chlorinated

For Poluchem Laboratories (P) Ltd.

Induja M.
Authorized signatory
INDUJA M.
Microbiologist

Poluchem Laboratories (P) Ltd

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TEST REPORT

Ref.No. PL/RT/DW/5412/2022

Page 01 of 01

Date of Issue: 02 /07/2022

Name & address of customer

: M/s Sobha Limited,
Sobha Marina One project, Ernakulam.
: Poluchem Laboratory Sample Collector
: IS 3025 Part 1 1987- Reaffirmed 2014
: Ground Water
: Borewell Water
: F/5412/2022
: 25/06/2022
: 25/06/2022
: 27/06/2022
: 02/07/2022

Sample drawn by

Sampling Method

Sample description

Sample Location

Sample code

Date of sample collected

Date of receipt of sample

Date of analysis started

Date of completion of analysis

Parameters tested	Test method	Result	Acceptable Limit as per IS 10500 - 2012
Chromium as Cr	IS 3025 (P) 52 - 2003 RA2014	BDL(MDL-0.01 mg/l)	0.05 mg/l
Selenium as Se	IS 3025 (P) 56 - 2003 RA2014	BDL(MDL-0.005 mg/l)	0.01 mg/l
Mercury as Hg	IS 3025(P) 48 - 1994 RA2014	BDL(MDL-0.001 mg/l)	0.001 mg/l
Cyanide as CN	IS 3025(P) 27 - 1986 RA2014	BDL(MDL-0.01 mg/l)	0.05 mg/l
Zinc as Zn	IS 3025(P) 49 - 1994 RA2014	BDL(MDL-0.05 mg/l)	5 mg/l
Aluminum as Al	IS 3025 (P) 55 - 2003 RA2014	BDL(MDL-0.01 mg/l)	0.03 mg/l
Boron as B	IS 3025(P) 57 - 2005 RA2017	BDL(MDL-0.05 mg/l)	0.5 mg/l
Anionic Detergents as MBAS	IS 13428:2005 (Annex K)	BDL(MDL-0.05 mg/l)	0.2 mg/l
Manganese as Mn	IS 3025(P) 59 - 2006 RA2017	BDL(MDL-0.05 mg/l)	0.1 mg/l
Copper as Cu	IS 3025(P) 42 - 1992 RA2014	BDL(MDL-0.01 mg/l)	0.05 mg/l
Lead as Pb	IS 3025(P) 47 - 1994 RA2014	BDL(MDL-0.01 mg/l)	0.05 mg/l
Arsenic as As	IS 3025(P) 37 - 1988 RA2014	BDL(MDL-0.005 mg/l)	0.01 mg/l
Cadmium as Cd	IS 3025(P) 41 - 1992 RA2014	BDL(MDL-0.001 mg/l)	0.003 mg/l

Note: BDL- Below Detection Level, MDL-Minimum Detection Level

For Poluchem Laboratories (P) Ltd.

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Client Name & Address	Certificate No:	PL/RT/SD/5257/2022	ULR NO:TC658921000005257F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue:	02/07/2022	
	Date of monitoring	25/06/2022	
	Sample Description	Ambient Sound Level – Near North Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 Hrs	48.6 dB (A)	23.00 Hrs	39.6 dB (A)
07.00 Hrs	51.2 dB (A)	00.00 Hrs	40.1 dB (A)
08.00 Hrs	53.4 dB (A)	01.00 Hrs	41.3 dB (A)
09.00 Hrs	51.2 dB (A)	02.00 Hrs	39.8 dB (A)
10.00 Hrs	51.3 dB (A)	03.00 Hrs	38.6 dB (A)
11.00 Hrs	52.4 dB (A)	04.00 Hrs	39.6 dB (A)
12.00 Hrs	51.3 dB (A)	05.00 Hrs	36.5 dB (A)
13.00 Hrs	50.1 dB (A)		
14.00 Hrs	49.8 dB (A)		
15.00 Hrs	50.6 dB (A)		
16.00 Hrs	51.2 dB (A)		
17.00 Hrs	49.8 dB (A)		
18.00 Hrs	48.6 dB (A)		
19.00 Hrs	49.6 dB (A)		
20.00 Hrs	46.3 dB (A)		
21.00 Hrs	41.2 dB (A)	LeqDay	49.2 dB (A)
22.00 Hrs	40.1 dB (A)	LeqNight	39.3 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time55dB(A), Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

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Client Name & Address	Certificate No:	PL/RT/SD/5271/2022	ULR NO:TC658922000005271F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue:	02/07/2022	
	Date of monitoring	25/06/2022	
	Sample Description	Ambient Sound Level -Near South Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 Hrs	50.3 dB (A)	23.00 Hrs	40.1 dB (A)
07.00 Hrs	52.3 dB (A)	00.00 Hrs	42.3 dB (A)
08.00 Hrs	51.6 dB (A)	01.00 Hrs	41.3 dB (A)
09.00 Hrs	52.6 dB (A)	02.00 Hrs	39.8 dB (A)
10.00 Hrs	54.3 dB (A)	03.00 Hrs	38.5 dB (A)
11.00 Hrs	53.4 dB (A)	04.00 Hrs	40.2 dB (A)
12.00 Hrs	52.3 dB (A)	05.00 Hrs	41.2 dB (A)
13.00 Hrs	54.1 dB (A)		
14.00 Hrs	50.1 dB (A)		
15.00 Hrs	49.8 dB (A)		
16.00 Hrs	51.2 dB (A)		
17.00 Hrs	50.2 dB (A)		
18.00 Hrs	49.8 dB (A)		
19.00 Hrs	48.6 dB (A)		
20.00 Hrs	48.2 dB (A)		
21.00 Hrs	47.5 dB (A)	LeqDay	50.5 dB (A)
22.00 Hrs	42.3 dB (A)	LeqNight	40.4 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time55dB(A),
Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am -

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Client Name & Address	Certificate No:	PL/RT/SD/5255/2022	ULR NO:TC65892200005255F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue:	02/07/2022	
	Date of monitoring	25/06/2022	
	Sample Description	Ambient Sound Level -Near East Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 Hrs	49.6 dB (A)	23.00 Hrs	38.6 dB (A)
07.00 Hrs	51.2 dB (A)	00.00 Hrs	37.6 dB (A)
08.00 Hrs	52.3 dB (A)	01.00 Hrs	36.3 dB (A)
09.00 Hrs	54.6 dB (A)	02.00 Hrs	37.4 dB (A)
10.00 Hrs	52.3 dB (A)	03.00 Hrs	36.3 dB (A)
11.00 Hrs	53.6 dB (A)	04.00 Hrs	35.4 dB (A)
12.00 Hrs	51.2 dB (A)	05.00 Hrs	37.8 dB (A)
13.00 Hrs	53.2 dB (A)		
14.00 Hrs	50.3 dB (A)		
15.00 Hrs	49.2 dB (A)		
16.00 Hrs	49.8 dB (A)		
17.00 Hrs	48.6 dB (A)		
18.00 Hrs	47.3 dB (A)		
19.00 Hrs	46.5 dB (A)		
20.00 Hrs	40.1 dB (A)		
21.00 Hrs	39.8 dB (A)	LeqDay	48.7 dB (A)
22.00 Hrs	38.7 dB (A)	LeqNight	37.0 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time55dB(A),
Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RANESH
POLUCHEM LABORATORIES (P) LTD.



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone: 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/5272/2022	ULR NO:TC658922000005272F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue:	02/07/2022	
	Date of monitoring	25/06/2022	
	Sample Description	Ambient Sound Level -Near West Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 Hrs	48.9 dB (A)	23.00 Hrs	39.6 dB (A)
07.00 Hrs	49.6 dB (A)	00.00 Hrs	38.6 dB (A)
08.00 Hrs	50.2 dB (A)	01.00 Hrs	37.4 dB (A)
09.00 Hrs	52.3 dB (A)	02.00 Hrs	35.2 dB (A)
10.00 Hrs	53.4 dB (A)	03.00 Hrs	36.3 dB (A)
11.00 Hrs	52.4 dB (A)	04.00 Hrs	35.4 dB (A)
12.00 Hrs	53.1 dB (A)	05.00 Hrs	36.2 dB (A)
13.00 Hrs	52.3 dB (A)		
14.00 Hrs	52.1 dB (A)		
15.00 Hrs	51.3 dB (A)		
16.00 Hrs	50.1 dB (A)		
17.00 Hrs	49.8 dB (A)		
18.00 Hrs	48.6 dB (A)		
19.00 Hrs	49.8 dB (A)		
20.00 Hrs	46.6 dB (A)		
21.00 Hrs	45.2 dB (A)	LeqDay	49.7 dB (A)
22.00 Hrs	40.1 dB (A)	LeqNight	36.9 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time55dB(A), Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.



TC-6589

POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/5256/2022	ULR NO:TC65892200005256F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue:	02/07/2022	
	Date of monitoring	25/06/2022	
	Sample Description	Ambient Sound Level -Middle of the project site	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 Hrs	51.6 dB (A)	23.00 Hrs	39.8 dB (A)
07.00 Hrs	50.5 dB (A)	00.00 Hrs	38.5 dB (A)
08.00 Hrs	52.3 dB (A)	01.00 Hrs	37.4 dB (A)
09.00 Hrs	53.6 dB (A)	02.00 Hrs	37.4 dB (A)
10.00 Hrs	54.6 dB (A)	03.00 Hrs	36.3 dB (A)
11.00 Hrs	54.3 dB (A)	04.00 Hrs	38.5 dB (A)
12.00 Hrs	53.2 dB (A)	05.00 Hrs	39.4 dB (A)
13.00 Hrs	52.1 dB (A)		
14.00 Hrs	51.3 dB (A)		
15.00 Hrs	50.1 dB (A)		
16.00 Hrs	49.8 dB (A)		
17.00 Hrs	48.6 dB (A)		
18.00 Hrs	47.6 dB (A)		
19.00 Hrs	46.5 dB (A)		
20.00 Hrs	42.3 dB (A)		
21.00 Hrs	41.2 dB (A)	LeqDay	49.4 dB (A)
22.00 Hrs	40.2 dB (A)	LeqNight	38.1 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time55dB(A),
Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

Srs.

QUALITY ASSURANCE

POLUCHEM LABORATORIES (P) LTD.



TC-6589

POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY**PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104**

Phone: 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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CERTIFICATE OF MONITORING

Client Name & Address	Certificate No	PL/SD/RT/5279/2022 (ULR NO:TC658922000005279F)
M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi	Date of issue	02/07/2022
	Sample description	Ambient Sound
	Sample code given by client	Nil

Sl. No.	Monitoring Location	Results	
		Day Time On25.06.2022 (11.00 AM-11.30 AM)	Night Time On25.06.2022 (10.00 PM- 10.30PM)
01	North East Side	51.6 dB(A)	43.6 dB (A)
02	South East Side	52.9 dB(A)	39.9 dB(A)
03	North West Side	50.8 dB(A)	40.5 dB(A)
04	South west Side	51.1 dB(A)	40.6 dB(A)
05	Main Gate Inside	53.4 dB(A)	41.5 dB(A)
Limit		55 dB(A)	45 dB(A)

For Poluchem Laboratories (P) Ltd.

Authorized Signatory.

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.

Leela R

From: Deepika B U <deepika.b@sobha.com>
Sent: Thursday, December 01, 2022 1:01 PM
To: 'rosz.bng-mefcc@gov.in'
Cc: 'Majo Joseph'; Damothiran V (AGM-Env Dsgn); 'leela.r@sobha.com';
'deepika.b@sobha.com'; 'ranjit.varma@sobha.com'
Subject: Marina view at marina drive of residential project-HYCR- Apr 2022 to Sep 2022-EC No. 121/2015-Dated: 29.12.2015
Attachments: HYCR_EC No. 121 2015.pdf

Respected Sir/ Madam,

Please find the attached Half yearly Compliance report to EC conditions of the above subject project for the period **Apr 2022 to Sep 2022**, for your reference.

We would like to bring to your kind notice that, construction activities are not yet commenced at our project site.

Kindly note that we are aware of the OM dated 14th June 2022 regarding uploading Compliance Reports on the MoEF & CC portal. However, when we try uploading as per instructions provided, we are facing multiple hurdles with various aspects with E-KYC verification, uploading compliance conditions etc. Also, we are not able raise the complaint, since the project doesn't have a single window number.

Hence, we earnestly request you to accept the attached compliance report by email. We assure you we will be uploading the report as soon as we are able to do so.



Deepika B U

Project Engineer 1 | Environmental Engineering Department

Sobha Limited

Sarjapur-Marthahalli Outer Ring Road

Bellandur Post, Bangalore - 560103

Tel: +91-80-49320000 Ext. 4256 | Mobile: +91 9972569383

'20FIVE
YEARS OF PASSION

Leela R

From: Deepika B U <deepika.b@sobha.com>
Sent: Thursday, December 01, 2022 2:18 PM
To: 'seacseiaakerala@gmail.com'
Cc: 'Majo Joseph'; Damothiran V (AGM-Env Dsgn); 'leela.r@sobha.com';
'deepika.b@sobha.com'; 'ranjit.varma@sobha.com'
Subject: Marina view at marina drive of residential project-HYCR- Apr 2022 to Sep 2022-EC No. 121/2015-Dated: 29.12.2015
Attachments: HYCR_EC No. 121 2015.pdf

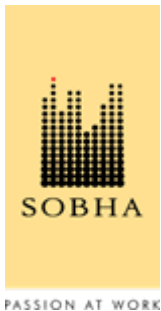
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Project Engineer 1 | Environmental Engineering Department

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