

Date: 14.05.2024

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 Ernakulam Village, Kochi Municipal Corporation, Kanayannur Taluk, Ernakulam District, by Puravankara Projects Limited.

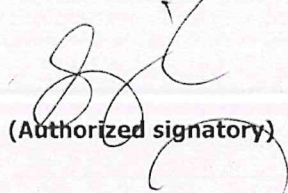
Ref: Environmental Clearance No. 121/2015 dated 29.12.2015.

With reference to the above subject, we are herewith submitting half yearly compliance report for the period **October 2023 to March 2024** 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 Ernakulam 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;

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

PURVA

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AN ISO 9001 COMPANY

PURAVANKARA LIMITED

Branch Office: 1st Floor, Areekal Mansion, Panampilly Nagar, Kochi - 683 036.

Tel: +91-484-2886222 • Fax: +91-484-2319904

Registered & Corporate Office: # 130/1 & 130/2, Ulsoor Road, Bengaluru - 560 042, Karnataka

Tel: +91 80 2559 9000/ 4343 9999 • Fax: +91 80 2559 9350

Email: info@puravankara.com • URL: www.puravankara.com • CIN: L45200KA1986PLC051571

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

(FOR THE PERIOD OCTOBER 2023 TO MARCH 2024)

(EC Ref No: 121/2015, dated 29.12.2015)

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

~~*~~

PART A – GREEN CONDITIONS

| Sl. No. | EC Conditions | Compliance Status |
|----------------|--|--|
| 1 | Adequate rainwater harvesting facilities shall be arranged for. | Provision for rainwater 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. | Agreed. |
| 4 | Maximum reuse of grey water for toilet flushing and gardening and construction work shall be ensured. | Agreed. |
| 5 | Dual plumbing for flushing shall be done. | 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. | Agreed. |
| 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. |
| 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. | Agreed. |
| 9 | Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. | Consent to Establishment has been obtained from KSPCB and copy of the same was submitted during previous compliance report submissions. |

| | | |
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| 10 | All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. | Agreed. |
| 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 | Agreed. |
| 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 Malyalam" 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. |

| | | |
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| 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 proposal. The Environmental Clearance shall also be put on the website of the company by the proponent | 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 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 the 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-1 . 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. |



POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

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

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TEST REPORT

Page 01 of 01

| Client Name & Address | Certificate No | PL/AMB/RT/78/2024 | (ULR NO:TC65892400000078F) |
|--|-----------------------------|--|----------------------------|
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Date of sample received | 29/03/2024 | |
| | Date of analysis Started | 29/03/2024 | |
| | Sample Code | G/C/78/2024 | |
| | 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 | 53.9 µg/m ³ | 100 µg/m ³ |
| Particulate Matter (PM _{2.5}) | I S 5182 Part 24 2019 | 26.5 µg/m ³ | 60 µg/m ³ |
| Sulphur dioxide(SO ₂) | I S 5182 Part 2 2001 RA 2017 | 5.8 µg/m ³ | 80 µg/m ³ |
| Nitrogen dioxide(NO ₂) | IS 5182 Part 06 2006 RA2017 | 8.4 µg/m ³ | 80 µg/m ³ |
| Carbon monoxide(CO) | SOP/PCL/COA/17 | 1.1 mg/m ³ | 4 mg/m ³ |
| Lead(Pb) | IS 5182 Part 22 2004RA2017 | BDL(MDL- 0.1 µg/m ³) | 1 µg/m ³ |
| Ammonia(NH ₃) | CPCB | BDL(MDL- 150 µg/m ³) | 400 µg/m ³ |
| Arsenic(As) | CPCB | BDL(MDL-1.5 ng/m ³) | 6 ng/m ³ |
| Nickel (Ni) | CPCB | BDL(MDL-5 ng/m ³) | 20 ng/m ³ |
| Ozone (O ₃) | CPCB | BDL(MDL- 1 µg/m ³) | 180 µg/m ³ |
| Benzene(C ₆ H ₆) | IS 5182 Part 11 2006 RA2014 | BDL(MDL- 1 µg/m ³) | 5 µg/m ³ |
| Benzo (a) pyrene (BaP) | IS 5182 Part 12 2004 RA2014 | BDL(MDL- 0.2 ng/m ³) | 1 ng/m ³ |

BDL- Below Detection Level, MDL- Minimum Detection Level

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

| | |
|---|--|
| The results are related only to the sample submitted for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory | For and on behalf of POLUCHEM LABORATORIES (P) LTD  REVIEWED & AUTHORIZED BY |
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SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD



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

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TEST REPORT

Page 01 of 01


| Client Name & Address | Certificate No | PL/AMB/RT/79/2024 | (ULR NO:TC65892400000079F) |
|--|-----------------------------|-------------------------------|----------------------------|
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Date of sample received | 29/03/2024 | |
| | Date of analysis Started | 29/03/2024 | |
| | Sample Code | G/C/79/2024 | |
| | 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 | 56.3 µg/m ³ | 100 µg/m ³ |
| Particulate Matter (PM _{2.5}) | I S 5182 Part 24 2019 | 26.3 µg/m ³ | 60 µg/m ³ |
| Sulphur dioxide(SO ₂) | I S 5182 Part 2 2001 RA 2017 | 6.2µg/m ³ | 80 µg/m ³ |
| Nitrogen dioxide(NO ₂) | IS 5182 Part 06 2006 RA2017 | 8.4 µg/m ³ | 80 µg/m ³ |
| Carbon monoxide(CO) | SOP/PCL/COA/17 | BDL(MDL- 1 mg/m ³) | 4 mg/m ³ |
| Lead(Pb) | IS 5182 Part 22 2004RA2017 | BDL(MDL- 0.1 µg/m ³) | 1 µg/m ³ |
| Ammonia(NH ₃) | CPCB | BDL(MDL- 150 µg/m ³) | 400 µg/m ³ |
| Arsenic(As) | CPCB | BDL(MDL-1.5 ng/m ³) | 6 ng/m ³ |
| Nickel (Ni) | CPCB | BDL(MDL-5 ng/m ³) | 20 ng/m ³ |
| Ozone (O ₃) | CPCB | BDL(MDL- 1 µg/m ³) | 180 µg/m ³ |
| Benzene(C ₆ H ₆) | IS 5182 Part 11 2006 RA2014 | BDL(MDL- 1 µg/m ³) | 5 µg/m ³ |
| Benzo (a) pyrene (BaP) | IS 5182 Part 12 2004 RA2014 | BDL(MDL- 0.2 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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TEST REPORT

Page 01 of 01

| Client Name & Address | Certificate No | PL/AMB/RT/80/2024 | (ULR NO:TC65892400000080F) |
|--|-----------------------------|-------------------------------|----------------------------|
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Date of sample received | 29/03/2024 | |
| | Date of analysis Started | 29/03/2024 | |
| | Sample Code | G/C/80/2024 | |
| | 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 | 53.4 µg/m ³ | 100 µg/m ³ |
| Particulate Matter (PM _{2.5}) | I S 5182 Part 24 2019 | 26.2 µg/m ³ | 60 µg/m ³ |
| Sulphur dioxide(SO ₂) | I S 5182 Part 2 2001 RA 2017 | 6.3 µg/m ³ | 80 µg/m ³ |
| Nitrogen dioxide(NO ₂) | IS 5182 Part 06 2006 RA2017 | 9.7 µg/m ³ | 80 µg/m ³ |
| Carbon monoxide(CO) | SOP/PCL/COA/17 | BDL(MDL- 1 mg/m ³) | 4 mg/m ³ |
| Lead(Pb) | IS 5182 Part 22 2004RA2017 | BDL(MDL- 0.1 µg/m ³) | 1 µg/m ³ |
| Ammonia(NH ₃) | CPCB | BDL(MDL- 150 µg/m ³) | 400 µg/m ³ |
| Arsenic(As) | CPCB | BDL(MDL-1.5 ng/m ³) | 6 ng/m ³ |
| Nickel (Ni) | CPCB | BDL(MDL-5 ng/m ³) | 20 ng/m ³ |
| Ozone (O ₃) | CPCB | BDL(MDL- 1 µg/m ³) | 180 µg/m ³ |
| Benzene(C ₆ H ₆) | IS 5182 Part 11 2006 RA2014 | BDL(MDL- 1 µg/m ³) | 5 µg/m ³ |
| Benzo (a) pyrene (BaP) | IS 5182 Part 12 2004 RA2014 | BDL(MDL-0.2 ng/m ³) | 1 ng/m ³ |

BDL- Below Detection Level, MDL- Minimum Detection Level

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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TEST REPORT

Page 01 of 01

| Client Name & Address | Certificate No | PL/AMB/RT/81/2024 | (ULR NO:TC65892400000081F) |
|--|-----------------------------|------------------------------|----------------------------|
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Date of sample received | 29/03/2024 | |
| | Date of analysis Started | 29/03/2024 | |
| | Sample Code | G/C/81/2023 | |
| | Sample description | Ambient air – Near West 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 | 65.4 µg/m ³ | 100 µg/m ³ |
| Particulate Matter (PM _{2.5}) | I S 5182 Part 24 2019 | 28.6 µg/m ³ | 60 µg/m ³ |
| Sulphur dioxide(SO ₂) | I S 5182 Part 2 2001 RA 2017 | 8.4 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 | BDL(MDL- 1 mg/m ³) | 4 mg/m ³ |
| Lead(Pb) | IS 5182 Part 22 2004RA2017 | BDL(MDL- 0.1 µg/m ³) | 1 µg/m ³ |
| Ammonia(NH ₃) | CPCB | BDL(MDL- 150 µg/m ³) | 400 µg/m ³ |
| Arsenic(As) | CPCB | BDL(MDL-1.5 ng/m ³) | 6 ng/m ³ |
| Nickel(Ni) | CPCB | BDL(MDL-5 ng/m ³) | 20 ng/m ³ |
| Ozone (O ₃) | CPCB | BDL(MDL- 1 µg/m ³) | 180 µg/m ³ |
| Benzene(C ₆ H ₆) | IS 5182 Part 11 2006 RA2014 | BDL(MDL- 1 µg/m ³) | 5 µg/m ³ |
| Benzo (a) pyrene (BaP) | IS 5182 Part 12 2004 RA2014 | BDL(MDL- 0.2 ng/m ³) | 1 ng/m ³ |

BDL- Below Detection Level, MDL- Minimum Detection Level

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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TEST REPORT

Page 01 of 01

| Client Name & Address | Certificate No | PL/AMB/RT/77/2024 | (ULR NO:TC65892400000077F) |
|--|-----------------------------|------------------------------|----------------------------|
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Date of sample received | 29/03/2024 | |
| | Date of analysis Started | 29/03/2024 | |
| | Sample Code | G/C/77/2024 | |
| | 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 | 53.6 µg/m ³ | 100 µg/m ³ |
| Particulate Matter (PM _{2.5}) | I S 5182 Part 24 2019 | 24.1 µg/m ³ | 60 µg/m ³ |
| Sulphur dioxide(SO ₂) | I S 5182 Part 2 2001 RA 2017 | 4.2 µg/m ³ | 80 µg/m ³ |
| Nitrogen dioxide(NO ₂) | IS 5182 Part 06 2006 RA2017 | 5.6 µg/m ³ | 80 µg/m ³ |
| Carbon monoxide(CO) | SOP/PCL/COA/17 | BDL(MDL- 1 mg/m ³) | 4 mg/m ³ |
| Lead(Pb) | IS 5182 Part 22 2004RA2017 | BDL(MDL- 0.1 µg/m ³) | 1 µg/m ³ |
| Ammonia(NH ₃) | CPCB | BDL(MDL- 150 µg/m ³) | 400 µg/m ³ |
| Arsenic(As) | CPCB | BDL(MDL-1.5 ng/m ³) | 6 ng/m ³ |
| Nickel (Ni) | CPCB | BDL(MDL-5 ng/m ³) | 20 ng/m ³ |
| Ozone (O ₃) | CPCB | BDL(MDL- 1 µg/m ³) | 180 µg/m ³ |
| Benzene(C ₆ H ₆) | IS 5182 Part 11 2006 RA2014 | BDL(MDL- 1 µg/m ³) | 5 µg/m ³ |
| Benzo (a) pyrene (BaP) | IS 5182 Part 12 2004 RA2014 | BDL(MDL- 0.2 ng/m ³) | 1 ng/m ³ |

BDL- Below Detection Level, MDL- Minimum Detection Level

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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|---|---|

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD



POLUCHEM LABORATORIES PVT LTD

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PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

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ACCREDITED BY NABL - GOVT. OF INDIA AND KSPCB AS "A" GRADE LABORATORY

CERTIFICATE OF MONITORING

| | | |
|--|-----------------------------|--|
| Client Name & Address | Certificate No | PL/SD/RT/2932/2024 (ULR NO:TC658924000002932F) |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 |
| | Sample description | Ambient Sound |
| | Sample code given by client | Nil |

| Sl. No. | Monitoring Location | Results | |
|---------|---------------------|--|---|
| | | Day Time 28.03.2024 (11.00 AM-11.30 AM) | Night Time 28.03.2024 (10.00 PM- 10.30PM) |
| 01 | North East Side | 49.8 dB(A) | 38.5 dB (A) |
| 02 | South East Side | 48.6 dB(A) | 36.3 dB(A) |
| 03 | North West Side | 47.4 dB(A) | 35.7 dB(A) |
| 04 | South west Side | 46.8 dB(A) | 37.4 dB(A) |
| 05 | Main Gate Inside | 47.4 dB(A) | 36.8 dB(A) |
| | Limit | 55 dB(A) | 45 dB(A) |

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By

SREEJA RAMESH
QUALITY MANAGER

End of the report

The above results are related only to the sample submitted for analysis. This test report shall not be reproduced except in full, without the written approval of the laboratory.



TEST REPORT

| | | | | | |
|--|------------------------|-------------------------------------|--------------------------|----------|-------------|
| Client Name & Address | Certificate No: | PL/RT/SD/2924/2024 | ULR NO:TC6589240000292F) | | |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue: | 05/04/2024 | | | |
| | Date of monitoring | 28/03/2024 | | | |
| | Sample Description | Ambient Sound Level –Near East Side | | | |
| HOURLY INTERVAL | RESULT | HOURLY INTERVAL | RESULT | | |
| 06.00 Hrs | 53.4 dB (A) | 23.00 Hrs | 39.4 dB (A) | | |
| 07.00 Hrs | 52.3 dB (A) | 00.00 Hrs | 38.5 dB (A) | | |
| 08.00 Hrs | 54.6 dB (A) | 01.00 Hrs | 37.4 dB (A) | | |
| 09.00 Hrs | 53.6 dB (A) | 02.00 Hrs | 38.7 dB (A) | | |
| 10.00 Hrs | 53.4 dB (A) | 03.00 Hrs | 36.5 dB (A) | | |
| 11.00 Hrs | 54.2dB (A) | 04.00 Hrs | 38.7 dB (A) | | |
| 12.00 Hrs | 53.4 dB (A) | 05.00 Hrs | 39.8 dB (A) | | |
| 13.00 Hrs | 52.7 dB (A) | | | | |
| 14.00 Hrs | 51.3 dB (A) | | | | |
| 15.00 Hrs | 50.2 dB (A) | | | | |
| 16.00 Hrs | 49.8 dB (A) | | | | |
| 17.00 Hrs | 48.7 dB (A) | | | | |
| 18.00 Hrs | 47.5 dB (A) | | | | |
| 19.00 Hrs | 46.3 dB (A) | | | | |
| 20.00 Hrs | 44.2 dB (A) | | | | |
| 21.00 Hrs | 43.4 dB (A) | | | LeqDay | 52.3 dB (A) |
| 22.00 Hrs | 42.7 dB (A) | | | LeqNight | 38.4 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

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By
 SREEMATHESH
 QUALITY MANAGER
 POLUCHEM LABORATORIES PVT. LTD

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| | | | |
|--|------------------------|---|-----------------------------|
| Client Name & Address | Certificate No: | PL/RT/SD/2925/2024 | ULR NO:TC6589240000029255F) |
| M/s.Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue: | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Sample Description | Ambient Sound Level –Middle of the project site | |
| HOURLY INTERVAL | RESULT | HOURLY INTERVAL | RESULT |
| 06.00 Hrs | 49.8 dB (A) | 23.00 Hrs | 40.2 dB (A) |
| 07.00 Hrs | 51.7 dB (A) | 00.00 Hrs | 41.3 dB (A) |
| 08.00 Hrs | 53.4 dB (A) | 01.00 Hrs | 38.4 dB (A) |
| 09.00 Hrs | 52.7 dB (A) | 02.00 Hrs | 39.6 dB (A) |
| 10.00 Hrs | 53.8 dB (A) | 03.00 Hrs | 38.7 dB (A) |
| 11.00 Hrs | 53.4 dB (A) | 04.00 Hrs | 39.8 dB (A) |
| 12.00 Hrs | 52.8 dB (A) | 05.00 Hrs | 40.2 dB (A) |
| 13.00 Hrs | 53.7 dB (A) | | |
| 14.00 Hrs | 54.6 dB (A) | | |
| 15.00 Hrs | 53.2 dB (A) | | |
| 16.00 Hrs | 51.3 dB (A) | | |
| 17.00 Hrs | 50.4 dB (A) | | |
| 18.00 Hrs | 48.6 dB (A) | | |
| 19.00 Hrs | 48.6 dB (A) | | |
| 20.00 Hrs | 47.4 dB (A) | | |
| 21.00 Hrs | 46.4 dB (A) | LeqDay | 52.3 dB (A) |
| 22.00 Hrs | 44.5 dB (A) | LeqNight | 38.4 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

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By

SREEJA RAMESH
QUALITY MANAGER

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|--|------------------------|---------------------------------------|----------------------------|
| Client Name & Address | Certificate No: | PL/RT/SD/2927/2024 | ULR NO:TC658924000029276F) |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive.Kochi | Date of issue: | 05/04/2024 | |
| | Date of monitoring | 28/03/2024 | |
| | Sample Description | Ambient Sound Level – Near North Side | |
| HOURLY INTERVAL | RESULT | HOURLY INTERVAL | RESULT |
| 06.00 Hrs | 50.3 dB (A) | 23.00 Hrs | 40.2 dB (A) |
| 07.00 Hrs | 54.6 dB (A) | 00.00 Hrs | 39.8 dB (A) |
| 08.00 Hrs | 56.3 dB (A) | 01.00 Hrs | 38.7 dB (A) |
| 09.00 Hrs | 54.2 dB (A) | 02.00 Hrs | 36.5 dB (A) |
| 10.00 Hrs | 53.4 dB (A) | 03.00 Hrs | 37.4 dB (A) |
| 11.00 Hrs | 52.6 dB (A) | 04.00 Hrs | 38.5 dB (A) |
| 12.00 Hrs | 51.4 dB (A) | 05.00 Hrs | 39.4 dB (A) |
| 13.00 Hrs | 53.6 dB (A) | | |
| 14.00 Hrs | 50.1 dB (A) | | |
| 15.00 Hrs | 49.8 dB (A) | | |
| 16.00 Hrs | 48.4 dB (A) | | |
| 17.00 Hrs | 49.8 dB (A) | | |
| 18.00 Hrs | 48.7 dB (A) | | |
| 19.00 Hrs | 46.5 dB (A) | | |
| 20.00 Hrs | 47.8 dB (A) | | |
| 21.00 Hrs | 48.9 dB (A) | | |
| 22.00 Hrs | 42.6 dB (A) | | |
| | | LeqDay | 51.3dB (A) |
| | | LeqNight | 37.4 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

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By
SREEJA RAMESH
QUALITY MANAGER

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|--|------------------------|--------------------------------------|---------------------------|----------|-------------|
| Client Name & Address | Certificate No: | PL/RT/SD/2931/2024 | ULR NO:TC65892400002931F) | | |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue: | 05/04/2024 | | | |
| | Date of monitoring | 28/03/2024 | | | |
| | Sample Description | Ambient Sound Level –Near South Side | | | |
| HOURLY INTERVAL | RESULT | HOURLY INTERVAL | RESULT | | |
| 06.00 Hrs | 50.2 dB (A) | 23.00 Hrs | 46.3 dB (A) | | |
| 07.00 Hrs | 52.6 dB (A) | 00.00 Hrs | 40.2 dB (A) | | |
| 08.00 Hrs | 54.2 dB (A) | 01.00 Hrs | 39.8 dB (A) | | |
| 09.00 Hrs | 53.6 dB (A) | 02.00 Hrs | 38.7 dB (A) | | |
| 10.00 Hrs | 51.4 dB (A) | 03.00 Hrs | 36.5 dB (A) | | |
| 11.00 Hrs | 53.4 dB (A) | 04.00 Hrs | 35.4 dB (A) | | |
| 12.00 Hrs | 53.6 dB (A) | 05.00 Hrs | 38.5 dB (A) | | |
| 13.00 Hrs | 54.7 dB (A) | | | | |
| 14.00 Hrs | 52.3 dB (A) | | | | |
| 15.00 Hrs | 51.7 dB (A) | | | | |
| 16.00 Hrs | 50.4 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 | 47.6 dB (A) | | | | |
| 21.00 Hrs | 46.7 dB (A) | | | LeqDay | 52.3 dB (A) |
| 22.00 Hrs | 48.6 dB (A) | | | LeqNight | 37.2 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

For Poluchem Laboratories (P) Ltd.

Reviewed & Authorized By

[Signature]
QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD

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|--|---------------|------------------------|-------------------------------------|---------------------------|----------|-------------|--|
| Client Name & Address | | Certificate No: | PL/RT/SD/2933/2024 | ULR NO:TC65892400002933F) | | | |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive.Kochi | | Date of issue: | 05/04/2024 | | | | |
| | | Date of monitoring | 28/03/2024 | | | | |
| | | Sample Description | Ambient Sound Level –Near West Side | | | | |
| HOURLY INTERVAL | RESULT | HOURLY INTERVAL | RESULT | | | | |
| 06.00 Hrs | 49.8 dB (A) | 23.00 Hrs | 41.2 dB (A) | | | | |
| 07.00 Hrs | 48.7 dB (A) | 00.00 Hrs | 39.8 dB (A) | | | | |
| 08.00 Hrs | 52.3 dB (A) | 01.00 Hrs | 38.7 dB (A) | | | | |
| 09.00 Hrs | 54.1 dB (A) | 02.00 Hrs | 37.4 dB (A) | | | | |
| 10.00 Hrs | 53.6 dB (A) | 03.00 Hrs | 36.9 dB (A) | | | | |
| 11.00 Hrs | 54.3 dB (A) | 04.00 Hrs | 38.7 dB (A) | | | | |
| 12.00 Hrs | 52.3 dB (A) | 05.00 Hrs | 39.8 dB (A) | | | | |
| 13.00 Hrs | 51.3 dB (A) | | | | | | |
| 14.00 Hrs | 50.4 dB (A) | | | | | | |
| 15.00 Hrs | 49.8 dB (A) | | | | | | |
| 16.00 Hrs | 48.7 dB (A) | | | | | | |
| 17.00 Hrs | 49.5 dB (A) | | | | | | |
| 18.00 Hrs | 47.6 dB (A) | | | | | | |
| 19.00 Hrs | 48.6 dB (A) | | | | | | |
| 20.00 Hrs | 49.6 dB (A) | | | | | | |
| 21.00 Hrs | 48.6 dB (A) | | | | LeqDay | 51.4 dB (A) | |
| 22.00 Hrs | 43.6 dB (A) | | | | LeqNight | 38.2 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

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By 

End of the report **SREEJA RAMESH**
QUALITY MANAGER

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CERTIFICATE OF MONITORING

| Client Name & Address | Certificate No | PL/SD/RT/2928/2024 |
|--|-----------------------------|--------------------|
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 |
| | Date of monitoring | 28/03/2024 |
| | Sample description | DG Noise Level |
| | Sample code given by client | Nil |

| Sl. No. | Monitoring Location | Results |
|--------------|--|-----------------|
| 01 | Diesel Generator -125KVA -(Cummins- East Side) | 69.4 dB(A) |
| 02 | Diesel Generator -100 KVA-(Cummins-West Side) | 68.9 dB(A) |
| 03 | Diesel Generator -100 KVA-(Cummins- South Side) | 69.7 dB(A) |
| 04 | Diesel Generator -125KVA -(Cummins-North Side) | 67.6 dB(A) |
| 05 | Diesel Generator -125KVA -(Kirloskar-North Side) | 69.5 dB(A) |
| 06 | Diesel Generator -125 KVA -(Cummins-West Side) | 69.7 dB(A) |
| Limit | | 75 dB(A) |

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

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By

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QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD

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|--|--------------------------|---|---------------------------|
| Client Name & Address | Certificate No | PL/RT/93/2024 | ULR NO:TC65892400000093F) |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive,Kochi | Date of issue | 05/04/2024 | |
| | Date of sample collected | 28/03/2024 | |
| | Date of sample received | 29/03/2024 | |
| | Date of analysis Started | 29/03/2024 | |
| | Sample description | Soil Sample | |
| | Sample Collected By | Polu Chem Laboratories Sample Collector | |
| | Sampling Method | IS2720 Part 1 | |
| | Sample code | SO/C/93/2024 | |

| Parameters | Test Method | Results |
|-------------------------|------------------------|---------------|
| pH | IS 2720(Part26)-1973 | 5.98 |
| Electrical Conductivity | IS 14767:2021 | 89 μ S/cm |
| Potassium as K | PCL/SOP/SO/Na &K | 87 mg/kg |
| Phosphorous as P | IS 10158 :1982 RA 2014 | 57 mg/kg |
| Nitrogen as N | IS 14684: 1999 RA 2014 | 138 mg/kg |
| Organic Carbon | IS 2720(Part 22):1972 | 0.74 % |
| Zinc as Zn | PCL/SOP/SO/Zn | <1 mg/kg |
| Calcium as Ca | PCL/SOP/SO/Ca & Mg | 102 mg/kg |
| Magnesium as Mg | PCL/SOP/SO/Ca & Mg | 65 mg/kg |
| Total Soluble Sulphate | IS 2720 Part27:2020 | 287 mg/kg |

For Polu Chem Laboratories (P) Ltd.

Reviewed & Authorized By

End of the report

SREEJA RAMESH
QUALITY MANAGER

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

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| | | |
|---|--------------------------|--|
| Client Name & Address | Certificate No | PL/RT/93/2024 |
| M/s Sobha Limited Marina One Survey No: 843, Ernakulam Village Kanayannur Taluk Goshree Pachalam Road Marine Drive, Kochi | Date of issue | 05/04/2024 |
| | Date of sample collected | 28/03/2024 |
| | Date of sample received | 29/03/2024 |
| | Date of analysis Started | 29/03/2024 |
| | Sample description | Soil Sample |
| | Sample Collected By | PoluChem Laboratories Sample Collector |
| | Sampling Method | IS2720 Part 1 |
| | Sample code | SO/C/93/2024 |

| Parameters | Test Method | Results |
|----------------|-------------|------------|
| Copper as Cu | EPA 3050 B | <0.1 mg/kg |
| Fluoride As F | EPA 3050 B | <0.1 mg/kg |
| Chromium as Cr | EPA 3050 B | <0.1 mg/kg |
| Lead as Pb | EPA 3050 B | <0.1 mg/kg |
| Arsenic As As | EPA 3050 B | <0.1 mg/kg |
| Mercury as Hg | EPA 3050 B | <0.1 mg/kg |
| Cobalt As Co | EPA 3050 B | <0.1 mg/kg |

For PoluChem Laboratories (P) Ltd.

Reviewed & Authorized By

SREEJA RAMESH
QUALITY MANAGER

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