

CIN: U70101KL2006FTC019125

SmartCity (Kochi) Infrastructure Pvt. Ltd.
SmartCity Pavilion,
Brahmapuram P.O., Kochi 682 303,
Kerala, India

Telephone +91 484 668 9800
www.smartcity-kochi.in



SCK/P16-P174/32/2021
12th April 2021

**Additional Principal Chief Conservator of Forests ©
Ministry of Environment, Forest and Climate Change**
Regional Office (SZ), Kendriya Sadan, 4th floor, E&F Wings
17th Main Road, 2nd Block, Koramangala II Block
Bangalore- 560 034

Dear Sir/Madam,

Sub: Submission of half yearly Environmental Clearance Conditions Compliance Report

Ref: Environmental Clearance no: 184/SEIAA/3792/2013 dated 01.10.2014

With reference to the above, Environmental Clearance, we are hereby submitting the Environmental Clearance Conditions Compliance Report for the period October 2020-March 2021 for our Master Plan Development of IT/ITeS, SEZ township construction project at Kakkanad and Puthencruz Village, Kanayannor Taluk, Ernakulum District by SmartCity Kochi Infrastructure Pvt Ltd.as required.

Thanking You

Yours Truly

A handwritten signature in blue ink, appearing to be "Manikandan I", written over a horizontal line.

**Manikandan I
Company Secretary**

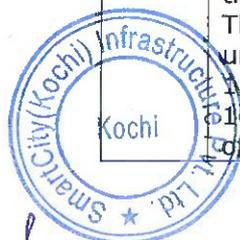


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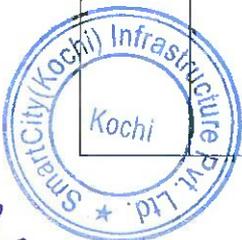
Compliance Report: Period ending 31st March 2021

Specific Conditions:

Sl No	Description	Report
1	Kadambrayar along with its puramboke land is to the left as such without any kind of encroachment. Native species is to be promoted in this area. This area is to be left for flood cushion.	Noted and being complied with.
2	As far as possible external earth should not be brought into the Smart City land. The material available from excavations must be used for filling. Buildings must be constructed with minimum changes to the existing topography. In case large quantity is required it must be done only with sufficient justification and concurrence of SEIAA.	Till date no external earth has been brought from outside. In case large quantity is required to be brought from outside, it will be done with concurrence of SEIAA.
3	One third of the area is to be maintained as green belt with greenery	Master Plan has considered the same during the planning. Accordingly one third area is proposed and maintained as green areas.
4	RWH proposed in the conceptual plan must be provided.	Complied with own building and instructions were given to CO-Developers also for adherence. Co-Developer Guidelines are attached in this regard.
5	Use of reflective surfaces on the walls of the buildings to be avoided to eliminate formation of heat islands.	Complied with own building instructions were given to CO-Developers also for adherence.
6	Storm water drainage plans to be firmed up.	Master Plan has considered the same during the planning. The completed storm water drains are executed as per the drawing only.
7	Internal traffic needs planning and parking facilities not less than KMBR.	Complied for the completed buildings and being complied with the buildings under construction.
8	Fencing and compound wall has to be provided, especially for the secure areas.	Complied with as per SEZ rules.
9	The 33 rd meeting of the SEIAA held on 24.09.2014 examined the application in detail in the light of the recommendations of SEAC, EIA report and undertaking given by project proponent. On being satisfied that the required procedural formalities have been duly met and adequate environmental safeguards have been envisaged as part of the project, including CSR, the SEIAA approved the project for issue of Environmental Clearance subject to all the specific conditions herein and general conditions Annexure 2, assured initiative measures as per chapter 8 of the EIA report (page 8.1 to 8.58, which shall be deemed to be part of this proceedings) and also subject to all the eight conditions referred to in para 5 above. The project proponent shall also abide by the undertakings given in his letter dated 15.05.2014 and sworn affidavit executed on 16.05.2014 on water quality, and preservation of endemic plants in the site. Also the project	Report showing the CSR already undertaken by SCK was already submitted with earlier compliance report.



	proponent shall provide Rs.15.00 crores (Rs. Fifteen crores only) towards Corporate Social Responsibility as committed, to be utilised for the general benefit of the people of the project areas.	
10	E- wastes shall be stored in an earmarked and covered area and disposed of as per e- wastes (Management & Handling) Rules, 2012	Noted. This instruction will be strictly complied.
11	Keeping in view, of the rainfall, storm water drainage system shall be developed to carry the runoff, which shall be then collected in rain water collection ponds and tanks. The surplus runoff shall be guided into the water bodies flowing along the periphery of the township. <ul style="list-style-type: none"> • Rain water collection tanks in individual plots (Non- flushing req.)(Storage capacity equivalent to 15 days of daily fresh water requirement). Total Capacity of rain water storage tanks would be 100ML. • Stored rain water on ponds (Non-flushing req.) (Non rainy days)(storage capacity equivalent to 15 days of daily fresh water requirement) one pond each land parcel, total capacity of 100ML) 	Complied Complied. The natural ponds available in the land parcels are maintained.
12	Solar power plants, Solar Water Heaters and solar operated street lights shall be provided and solar energy shall be utilised wherever possible.	Solar Plant of capacity 564 kWp commissioned for own building (SCK 01 building) and 63 kWp commissioned by the Co-developer who completed the 1 st and 2 nd phase (SG Academics). All Co-Developers whose constructions are under progress also will be complying the same.
13	It is also clarified that dredging for clearing the channels for the proposed Jetty services will be permissible.	Noted
14	Environmental clearance under the EIA notification 2006 is hereby accorded for the proposed master plan Development project of M/S. Smart City Kochi Infrastructure Pvt. Ltd, Brahmapuram, Kochi - 682303 , to be established at the location more specifically described in the Annexure -1 , subject to all the specific conditions stipulated in pre paragraphs and general conditions in Annexure-2.	Noted
15	Validity of the E.C will be five years from 1.10.2014, provided that it will be reviewed at any time during the validity, in case violation or non-compliance of anyof the conditions stipulated herein.	As per the latest amendments the EC is valid will be up to 30.09.2022.
16	Violation of any of the above conditions in any manner would entail cancellation of this order.	Noted.
17	1. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate changes or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore.	Noted Will be complied

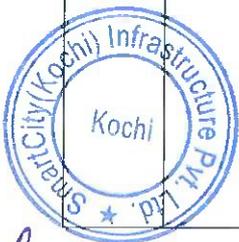


	<p>2. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.</p> <p>3. Instances of violation if any shall be reported to the District Collector, Ernakulum to take legal action under the Environment (Protection) Act 1986.</p>	Noted
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ANNEXURE 11

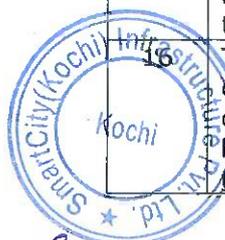
GENERAL CONDITONS

1	Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified elsewhere.	Complied for the own building and instructed the co-developers to complied with.
2	Environment monitoring cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Complied. Meeting are being conducted as per the proposal.
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.	Planting has been done in the road median and other dedicated areas.
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.	Solar Plant of capacity 564 kWp commissioned for own building (SCK 01 building) and 63 kWp commissioned by the Co-developer who completed the 1 st and 2 nd phase (SG Academics).
5	Safety measures should be implemented as per the Fire and Safety Regulations.	Noted and complied for the completed buildings and will be ensured for buildings under construction.
6	STP should be installed and made functional as per KSPCB guidelines including that for solid waste management.	STP of 200 KLD has been installed and functional in SCK 01 Building, STP of 56 KLD has been installed and functional in SG Academics and STP 60 KLD has been installed and functional in MariApps IT Building. STPs are also being installed by various Co-Developers as per Co-Developer guidelines.
7	The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.	Noted. Company has not reported profit as on date.
8	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Noted and being complied. The list of trees planted are submitted in earlier reports.
9	Consent from Kerala State Pollution Control Board under water and Air(s) should be obtained before initiating activity.	<p>Complied.</p> <p>1. File No: PCB/HO/EKM/ICE/7/2014 dated 04.06.2020 valid till 30.06.2024.</p> <p>2. File No: PCB/HO/EEI/EKM-2/ICE/15/2017 dated 14.12.2018 valid till 31.08.2021</p> <p>3. File No: PCB/RO-EKM/ERR/O18ERR238252/2020 dated 24.11.2020 valid till 11.11.2025</p>



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10	All other statutory clearance should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Complied as on date. Approvals are obtained from 1. Single Window Clearance Board (SWCB) 2. Fire and Rescue NoC. 3. CEIG 4. Pollution Control Board 5. Aviation Clearance (applicable only for Sands Infinity Building)
11	In the case of any change(s) in the scope of the project would require a fresh appraisal by this Authority.	Noted and already applied.
12	The authority reserve the right to add additional safeguard measures subsequently ,if additional necessary and to take action including revoking of the environmental clearance under provision 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 under different Acts and notifications should be complied with, including the provisions of water (prevention Acts and Notification)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.	Noted
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 Clearances 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.	Newspaper clips are submitted in the earlier reports.
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.	Environmental Clearance is uploaded in the website. All the half yearly compliances are also uploaded in the website. Please see the website of SmartCity www.smartcity-kochi.in downloads page.
	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 the stipulated EC	Complied. Latest Monitoring reports are attached along with the report.



	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 the Directorate of Environment and climate change, Govt. of Kerala.	
17	The details of Environmental Clearance should be prominently displayed in a metallic board of 3ft *3ft with green background and yellow letters of Times New Roman font of size of not less than 40.	Complied. Image of the same is attached
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.	Submitted



TEST REPORT

Test Report No: 20210118/R052	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S052
Sample Name	Ambient Air	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Sampling Location	Near Indian Public School, Edachira, NE Direction of the Site & Near the Project Site boundary of Land A	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	70%

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686, 687,689,704-712,722	62,63,67- 74,101,103-109	570/1part,570/2part, 570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	60.5	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	26.2	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

Remarks:

End of Report

Checked by:
Shency Joy
Dy. TM Chemical

Authorized Signatory

Laiju P. N.
Laboratory Head

TEST REPORT

Test Report No: 20210118/R051	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S051
Sample Name	Ambient Air	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Sampling Location	Near BDPP, Near South - East Side of the Site - Land B.	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	70%

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Tahuk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	63.4	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	29.6	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

Remarks:

End of Report

Checked by:
Shency Joy
Dy. TM Chemical

Authorized Signatory

Laiju P. N.
Laboratory Head

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

Test Report No: 20210118/R053	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S053
Sample Name	Ambient Air	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Sampling Location	Near KINFRA Park (Near Devikulam Distilleries Ltd) – NW Side of the Site - Land C	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	70%

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

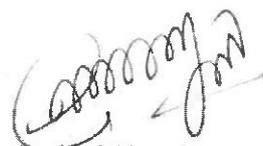
TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	68.9	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix – L	µg/m ³	33.9	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.20	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	2.51	80.0 (Max)

Remarks:

End of Report

Checked by:

Shency Joy
By: TM Chemical


Authorized Signatory
Laiju P. N.
Laboratory Head

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Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

Test Report No: 20210118/R054	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S054
Sample Name	Ambient Air	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Sampling Location	Near the Pavilion Building - Smart City Office with the Project site, Centre of the Site & Near the road in Land B.	Date of Sampling	18.01.2021
Sampling Procedure	SEAL/ENL/GEN/SOP/02	Humidity	70%

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	74.1	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	27.8	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.70	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	3.92	80.0 (Max)

Remarks:

End of Report

Checked by:

Shency Joy
Dy. TM Chemical


Authorized Signatory
Laiju P. N.
Laboratory Head

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Web: www.sealabs.in, E-mail: sealab@gmail.com

TEST REPORT

Test Report No: 20210118/R055	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S055
Sample Name	Ambient Air	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Sampling Location	Near Residential House of Edachira, Near NW Side of the Site & Near the Project Site Boundary of Land A.	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	70%

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	66.5	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	30.3	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.30	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	3.10	80.0 (Max)

Remarks:

End of Report

Checked by: 
Shency Joy
Dy. TM Chemical


Authorized Signatory
Laiju P. N.
Laboratory Head

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Web: www.sealabs.in, E-mail: sealab@gmail.com

TEST REPORT

Test Report No: 20210118/R065	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S065
Sample Name	Ambient Air	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Sampling Location	Near Butterfly Park in Land A (Sound East Side of Land -A, Near Kadambayar River)	Date of Sampling	18.01.2021
Sampling Procedure	SEAL/ENL/GEN/SOP/02	Humidity	70%

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686, 687,689,704-712,722	62,63,67- 74,101,103-109	570/1part,570/2part, 570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

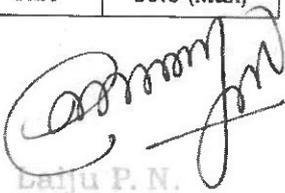
TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	65.3	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	29.8	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	2.40	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	3.20	80.0 (Max)

Remarks:

End of Report


Shency Joy
Dy. TM Chemical
Checked by:




Lalju P. N.
Laboratory Head
Authorized Signatory

Standard^S Environmental & Analytical Laboratories

Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

Test Report No: 20210118/R056	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20210118/S056
Sample Name	Ambient Noise	Monitoring Commenced on	18.01.2021
Monitoring Location	Near BDPP, Near South- East Side of the Site - Land B.	Monitoring Completed on	19.01.2021
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.3	14:00	50.1	22:00	36.2
07:00	40.0	15:00	50.4	23:00	35.6
08:00	44.3	16:00	51.6	24:00	38.2
09:00	47.7	17:00	52.0	01:00	38.9
10:00	50.1	18:00	46.6	02:00	38.5
11:00	53.1	19:00	43.1	03:00	39.3
12:00	50.4	20:00	39.3	04:00	38.2
13:00	49.7	21:00	38.8	05:00	40.0

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.5
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	38.4

Remarks:

End of Report

Checked by: 
Shency Joy
Dy. TM Chemical


Authorized Signatory
Laiju P. N.
Laboratory Head

TEST REPORT

Test Report No: 20210118/R057	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20210118/S057
Sample Name	Ambient Noise	Monitoring Commenced on	18.01.2021
Monitoring Location	Near Indian Public School, Edachira, NE Direction of the Site & Near the Project Site boundary of Land A	Monitoring Completed on	19.01.2021
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686, 687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part, 570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.7	14:00	50.6	22:00	36.6
07:00	40.5	15:00	51.0	23:00	36.3
08:00	44.7	16:00	52.1	24:00	38.9
09:00	48.2	17:00	52.5	01:00	39.6
10:00	50.6	18:00	47.1	02:00	39.3
11:00	53.7	19:00	43.6	03:00	40.0
12:00	51.0	20:00	39.7	04:00	38.9
13:00	50.2	21:00	39.2	05:00	40.8

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.4
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	39.1

Remarks:

End of Report

Checked by: 
Shency Joy
Dy. TM Chemical


Authorized Signatory
Laju P. N.
Laboratory Head

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TEST REPORT

Test Report No: 20210118/R058	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20210118/S058
Sample Name	Ambient Noise	Monitoring Commenced on	18.01.2021
Monitoring Location	Near KINFRA Park (Near Devikulam Distilleries Ltd) – NW Side of the Site- Land C	Monitoring Completed on	19.01.2021
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

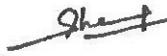
SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

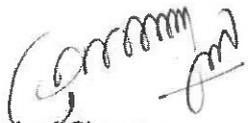
MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.9	14:00	37.9	22:00	36.8
07:00	40.7	15:00	40.7	23:00	35.9
08:00	45.0	16:00	45.0	24:00	38.5
09:00	48.5	17:00	48.5	01:00	39.2
10:00	50.8	18:00	50.8	02:00	38.9
11:00	54.0	19:00	54.0	03:00	39.6
12:00	51.2	20:00	51.2	04:00	38.5
13:00	50.4	21:00	50.4	05:00	40.3

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.4
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	38.7

Remarks:

End of Report

Checked by: 
Shency Joy
Dy. TM Chemical


Authorized Signatory
Laiju P. N.
Laboratory Head

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TEST REPORT

Test Report No: 20210118/R059	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20210118/S059
Sample Name	Ambient Noise	Monitoring Commenced on	18.01.2021
Monitoring Location	Near the Pavilion Building - Smart City Office with the Project site, Centre of the Site & Near the road in Land B.	Monitoring Completed on	19.01.2021
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

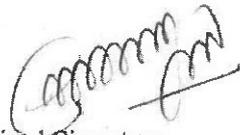
MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	39.0	14:00	52.3	22:00	37.8
07:00	41.8	15:00	52.7	23:00	37.6
08:00	46.2	16:00	53.9	24:00	40.4
09:00	49.8	17:00	54.3	01:00	41.1
10:00	52.3	18:00	48.6	02:00	40.7
11:00	55.5	19:00	45.0	03:00	41.5
12:00	52.7	20:00	41.0	04:00	40.4
13:00	51.9	21:00	40.5	05:00	42.3

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	50.7
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	40.6

Remarks:

End of Report

Checked by: 
Shency Joy
Dy. TM Chemical


Authorized Signatory
Laju P. N.
Laboratory Head

TEST REPORT

Test Report No: 20210118/R060	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	20210118/S060
Sample Name	Ambient Noise	Monitoring Commenced on	18.01.2021
Monitoring Location	Near Residential House of Edachira, Near NW Side of the Site & Near the Project Site Boundary of Land A..	Monitoring Completed on	19.01.2021
Test Method	IS 9989:1981 RA:2008	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.2	14:00	49.9	22:00	36.1
07:00	39.9	15:00	50.3	23:00	34.4
08:00	44.2	16:00	51.5	24:00	36.9
09:00	47.6	17:00	51.8	01:00	37.6
10:00	49.9	18:00	46.5	02:00	37.3
11:00	53.0	19:00	43.0	03:00	38.0
12:00	50.3	20:00	39.2	04:00	36.9
13:00	49.5	21:00	38.7	05:00	38.7

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	48.4
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	37.2

Remarks:

End of Report

Checked by:
Shency Joy
Dy. TM Chemical

Authorized Signatory
Laiju P. N.
Laboratory Head

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TEST REPORT

Test Report No: 20210118/R066	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s SmartCity (Kochi) Infrastructure Pvt. Ltd Kochi, Ernakulam District
Customer Reference	Test Request dt 18.01.2021

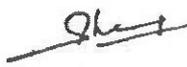
SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S066
Sample Name	Stack Emission	Sample Received on	18.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Stack Identity	1500 KVA DG Set 1	Stack Diameter	0.40 m
Date of Sampling	18.01.2021	Sampling Procedure	SEAAL/ENL/GEN/SOP/03

TEST RESULTS - CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Temperature	IS 11255 Part 3: 2008 RA 2018	°C	160	---
2	Velocity of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	m/sec	5.23	---
3	Volume of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	Nm ³ /Hr	1628	---
4	Particulate Matter	IS 11255 Part 1: 1985 RA 2014	mg/Nm ³	32.5	150

Remarks:

End of Report


Shency Joy
By, VM Chemical

Checked by:


Laiju P. N.
Laboratory Head

Authorized Signatory

The results are related to the sample submitted for analysis and this report shall not be reproduced except in full without the written approval of the laboratory.

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TEST REPORT

Test Report No: 20210118/R067	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s SmartCity (Kochi) Infrastructure Pvt. Ltd Kochi, Ernakulam District
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S067
Sample Name	Stack Emission	Sample Received on	18.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Stack Identity	1500 KVA DG Set 2	Stack Diameter	0.40 m
Date of Sampling	18.01.2021	Sampling Procedure	SEAAL/ENL/GEN/SOP/03

TEST RESULTS - CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Temperature	IS 11255 Part 3: 2008 RA 2018	°C	165	---
2	Velocity of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	m/sec	5.20	---
3	Volume of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	Nm ³ /Hr	1600	---
4	Particulate Matter	IS 11255 Part 1: 1985 RA 2014	mg/Nm ³	32.7	150

Remarks:

End of Report


Shency Joy
Dy. TM Chemical

Checked by:

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Laiju P. N.
Laboratory Head
Authorized Signatory

Standard^S Environmental & Analytical Laboratories

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TEST REPORT

Test Report No: 20210118/R068	Date: 23.01.2021	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s SmartCity (Kochi) Infrastructure Pvt. Ltd Kochi, Ernakulam District
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	20210118/S068
Sample Name	Stack Emission	Sample Received on	18.01.2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021

DETAILS OF SAMPLING			
Stack Identity	1500 KVA DG Set 3	Stack Diameter	0.40 m
Date of Sampling	18.01.2021	Sampling Procedure	SEAAL/ENL/GEN/SOP/03

TEST RESULTS - CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Temperature	IS 11255 Part 3: 2008 RA 2018	°C	159	---
2	Velocity of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	m/sec	5.41	---
3	Volume of Gas Discharged	IS 11255 Part 3: 2008 RA 2018	Nm ³ /Hr	1687	---
4	Particulate Matter	IS 11255 Part 1: 1985 RA 2014	mg/Nm ³	33.8	150

Remarks:

End of Report


Shency Joy
Dy. TM Chemical

Checked by:


Laju P. N.
Laboratory Head

Authorized Signatory

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TEST REPORT

Test Report No: 20210118/R061	Date: 23.01.2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	20210118/S061
Sample Name	Canal Water	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021
Information Provided by Customer	---		

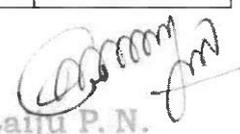
DETAILS OF SAMPLING			
Sample Source/Location	Edachira Canal	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	31 °C

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	5.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	14.8	Max 1

Checked by: 
 Shency Joy
 Dy. TM Chemical


 Salini T. S.
 Microbiologist
 Authorized Signatory


 Laju P. N.
 Laboratory Head
 Authorized Signatory

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TEST REPORT

Test Report No: 20210118/R061	Date: 23.01.2021	Page 2 of 2
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4	pH	IS 3025 (Part 11):1983 RA 2017	---	7.08	6.50 – 8.50
5	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	123	Max 500
6	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	60.6	Max 200
7	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	14.5	Max 75
8	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	5.90	Max 30
9	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	31.4	Max 250
10	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	1.98	Max 1

TEST RESULTS - BIOLOGICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliforms	IS 1622:1981 RA 2014	MPN/100 ml	Present/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report


Shency Joy
Dy. TM Chemical

Checked by:


Salini T. S.
Microbiologist
Authorized Signatory


Laiju P. N.
Laboratory Head
Authorized Signatory

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TEST REPORT

Test Report No: 20210118/R063	Date: 23.01.2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	20210118/S063
Sample Name	Surface Water	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source/Location	Kadambrayar	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	31 °C

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	5.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	7.10	Max 1

Shency Joy
Dy. TM Chemical
Checked by:

Salini T. S.
Microbiologist
Authorized Signatory

Lalju P. N.
Laboratory Head
Authorized Signatory

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Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

Test Report No: 20210118/R063	Date: 23.01.2021	Page 2 of 2
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4	pH	IS 3025 (Part 11):1983 RA 2017	---	6.72	6.50 – 8.50
5	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	48.0	Max 500
6	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	18.2	Max 200
7	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	4.85	Max 75
8	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	1.48	Max 30
9	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	23.5	Max 250
10	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	1.28	Max 1

TEST RESULTS – BIOLOGICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliforms	IS 1622:1981 RA 2014	MPN/100 ml	Present/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report

Shency Joy
Dy. Chemist
Checked by:

Salini T. S.
Authorized Signatory

Laju P. N.
Laboratory Head
Authorized Signatory

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TEST REPORT

Test Report No: 20210118/R062	Date: 23.01.2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	20210118/S062
Sample Name	Treated Water	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source/Location	Water from KINFRA	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	31 °C

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.10	Max 1

Shency Joy
Dr. TM Chemical
Checked by:

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Microbiologist
Authorized Signatory

Laiju P. N.
Laboratory Head
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TEST REPORT

Test Report No: 20210118/R062	Date: 23.01.2021	Page 2 of 2
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4	pH	IS 3025 (Part 11):1983 RA 2017	---	7.28	6.50 – 8.50
5	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	88.0	Max 500
6	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	38.4	Max 200
7	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	8.08	Max 75
8	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	4.43	Max 30
9	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	24.5	Max 250
10	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	0.18	Max 1

TEST RESULTS - BIOLOGICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliforms	IS 1622:1981 RA 2014	MPN/100 ml	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report


Shency Joy
 Dy. TM Chemical
 Checked by:


Salini T. S.
 Microbiologist
 Authorized Signatory


Laju P. N.
 Laboratory Head
 Authorized Signatory

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TEST REPORT

Test Report No: 20210118/R064	Date: 23.01.2021	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	M/s Smart City (Kochi) Infrastructure (P) Ltd Kakkanad, Ernakulam District.
Customer Reference	Test Request dt 18.01.2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	20210118/S064
Sample Name	Surface Water	Sample Received on	19.01.2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	4 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	19.01.2021
Sampled by	Lab Authorized Sampler	Test Completed on	23.01.2021
Information Provided by Customer	---		

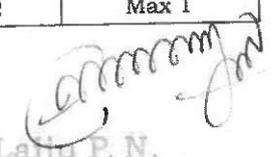
DETAILS OF SAMPLING			
Sample Source/Location	Pond Water(Existing)	Date of Sampling	18.01.2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	31 °C

SAMPLING SITE DETAILS			
Plot	Land A- Block 9	Land B- Block 37	Land C- Block 9
Survey No	640-655,665,666,686,687,689,704-712,722	62,63,67-74,101,103-109	570/1part,570/2part,570/28part
Village	Kakkanad	Puthencruz	Kakkanad
Taluk	Kanayannur	Kunnathunnad	Kanayannur
District	Ernakulam	Ernakulam	Ernakulam
State	Kerala	Kerala	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	5.00	Max 5
2	Odour	IS 3025 (Part 5):2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	24.2	Max 1


Shency Joy
Dy. TM Chemical
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TEST REPORT

Test Report No: 20210118/R064	Date: 23.01.2021	Page 2 of 2
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4	pH	IS 3025 (Part 11):1983 RA 2017	---	6.78	6.50 - 8.50
5	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	79.0	Max 500
6	Total Hardness as CaCO ₃	IS 3025 (Part 21):2009 RA 2019	mg/L	32.3	Max 200
7	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	8.08	Max 75
8	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	2.95	Max 30
9	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	25.5	Max 250
10	Iron as Fe	IS 3025 (Part 53):2003 RA 2019	mg/L	2.36	Max 1

TEST RESULTS - BIOLOGICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliforms	IS 1622:1981 RA 2014	MPN/100 ml	Present/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report


Shency Joy
 Dy. TM Chemical
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