

**HALF-YEARLY PROGRESS REPORT OF COMPLIANCE
WITH ENVIRONMENTAL CLEARANCE CONDITIONS
(Half year ending 30 June 2026)**

EC NO: 87/2017
 Date of Issue: 29 November 2017
 Proposal No: No:1036(A)/SEIAA/EC3/502/2016
 Name of the Project: Common Bio-medical Waste Treatment Facility
 Project Proponent: Kerala Enviro Infrastructure Limited
 Common Bio-Medical Waste Treatment Facility, Inside
 FACT CD Campus, Ambalamedu, Kochi.
 Pin: 682303
 Location: Survey No:205, Block No:37
 Ambalamedu,
 Puthencruz village, Kunnathunadu Taluk,
 Ernakulam District, Kerala

Specific Conditions of Environmental Clearance		
Sl. No:	Specific Conditions	Status
1	The Authority also insist that on-time display for monitoring of the effluents, particularly of each pollutant for the information of the public should be commenced.	Complied. Display board placed at the entrance of the unit displaying the quality of emission, effluent & Ambient air
2	A notarised affidavit that all the conditions shall be strictly implemented should be submitted before the issuance of EC.	Complied. KEIL submitted the notarised affidavit to SEIAA on 11.11.2017.
3	The proponent has submitted the affidavit received dated 11.11.2017 and stating that all the specific and general conditions shall be strictly implemented. Environmental Clearance as per the EIA notification 2006 is therefore granted to proposed Common Biomedical Waste Treatment Facility (CBWTF) by Dr. N K Pillai, Chief Executive Officer, Mis Kerala Enviro Infrastructure Limited in Sy No. 205 at Puthenkurissu Village, Kunnathunadu Taluk, Emakulam district, Kerala subject to the specific conditions mentioned in para 8 above, the usual general conditions for projects other than mining appended hereto and the general green conditions applicable for construction projects should be strictly adhered to.	Complied.
4	The clearance will also be subject to full and effective implementation of all the undertakings given in the application form, all the environmental impact mitigation and	Complied.

	management measures undertaken by the project proponent in the documents submitted to SEIAA, and the mitigation measures and waste management proposal as assured in Form-1 and Form - 1 A, Environment Management Plan as submitted. The assurances and clarifications given by the proponent in the application and related documents will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.	
5	Validity of the Environmental Clearance will be five years from the date of issuance of EC subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of EC in case of violation or non-compliance of any of the conditions stipulated herein or genuine complaints from residents within the scrutiny area of the project.	Noted.
6	Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Govt. of India, Bangalore.	Noted.
7	Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents. Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal action under the Environment (Protection) Act 1986. The given address for correspondence with the authorized signatory of the project is, Dr. N K Pillai, Chief Executive Officer, Mis Kerala Enviro Infrastructure Limited., inside FACT-CD campus, Ambalamedu, Emakulam- 682303.	Noted.

General Conditions of Environmental Clearance

S.No.	Condition	Status
1	The waste shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards prescribed in Schedule V of Bio Medical Waste Management and handling Rules.	Complied. Bio-medical waste is collected from various health care Facilities/institutions in colour coded, barcoded bags as specified in Schedule-V of Bio-medical Waste Management Rules.
2	Bio-Medical waste shall not be mixed with other wastes and the waste shall be segregated into labelled containers/bags at the point of generation prior to its storage, transportation, treatment and disposal.	Complied. Waste segregated by HCFs and supply to KEIL in colour coded, bar coded bags. Dedicated vehicles are used for transportation of BMW from various HCFs to KEIL. The vehicles are labelled as per statute.
3	Plastic waste should be treated and disposed of separately.	Complied. Plastic waste is autoclaved, then segregated by category and sold to authorized recyclers.
4	Untreated biomedical waste shall be transported only in such a vehicle as may be authorized for the purpose by the competent authority, as specified by the government.	Complied. Dedicated vehicles are used to transport Biomedical waste from various healthcare facilities to KEIL. All these vehicles are fitted with GPS and have authorization from State Pollution Control Board.
5	The base of the waste cabin shall be leak-proof to avoid pilferage of liquid during transportation, and the inner surface of the waste cabin shall be made of a smooth surface to minimize water retention. The waste cabin shall be so designed that it is easy to wash and disinfect.	Complied: All the vehicles are made leak-proof with a coat of waterproofing material inside the cabin.
6	Every time a vehicle is unloaded, the vehicle and empty waste containers shall be washed properly and disinfect.	Complied. The Bio-medical waste carrying vehicles & containers after unloading the Bio-medical waste is cleaned and disinfected with Sodium Hypochlorite solution. This is done in vehicle wash area provided separately.
7	No untreated bio-medical waste shall be kept stored beyond a period of 48 hours.	Complying.
8	Adopt suitable design criteria for incinerators, Incinerator room and waste storage room for better performance.	Complied. Separate storage areas provided for storing waste received in red, yellow, blue/white-coloured bags and treated waste.

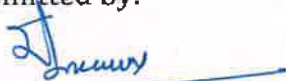
9	The proponent should get authorization and other statutory clearances from the Government Departments / agencies for the functioning as per rules.	Complied. KEIL has obtained Consent to operate from Kerala State Pollution Control Board for operating the CBWTF. The present consent to operate / authorization is valid up to 30-06-2029. KEIL has also obtained necessary permits, licenses etc from Factories & Boilers Dept., Local Self-Government, Fire & Rescue Dept. etc.
10	The proponent shall maintain records related to the generation, collection, reception, storage, transportation, treatment, disposal and /or any form of handling of bio- medical waste in accordance with rules.	Complied. Records of collection, receipt, treatment, disposal are maintained.
11	The proponent should take adequate measures to prevent the contamination of polluting gas/effluents/ashes to air, water, and land.	Complied. KEIL has considered this during design stage itself and installed: 1. Emission treatment system installed for prevention of contamination of air. 2.ETP installed and is in operation for prevention of contamination of water. 3.Sharp pit is provided to prevent land contamination. 4. Ash & ETP sludge are disposed in own TSDF of KEIL at Ambalamedu, Kochi.
12	The equipment used for the treatment should be cleaned every day, and the wastewater should be treated before further usage.	Complied: The wastewater generated is treated in the ETP and reused in the plant.
13	No effluent should be discharged out of the premises.	Complied. The effluent generated is treated and entire quantity of the treated effluent is used in quench tower, vehicle washing, floor washing, irrigation and gardening. There is no discharge of effluent from the unit.
14	Technology and capacity of the STP to be indicated with discharge point (if any) of the treated effluent.	Septic tanks and soak pits are provided.
15	Generation of solar energy to be mandatory for own use and/or to be provided to the grid.	Complied. 12 nos Solar streetlights were installed in the Bio-medical waste treatment Facility and are in operation.

16	Rainwater harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.	Complying. Rainwater falling on the roof of the administrative building is collected and diverted to the fire water tank.
17	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Complied. Environment Monitoring Cell has been setup and functional at Unit level.
18	High walls, fencing and guarded gates shall be provided at the facility to prevent unauthorized access to the site by humans and livestock.	Complied. Compound wall has been constructed around the BWTF (3.5 acres).
19	Green belt should be provided by using common local tree species around the project area.	Complied. Green belt is developed around the periphery of the CBWTF. Saplings of local species of trees are planted in the green belt around the CBWTF of KEIL.
20	Waste such as incineration ash generated in the process of incineration shall be stored in a separate area under the shed so as to avoid entry of rainwater during the monsoon.	Complied. Incineration ash generated is stored in the ash storage and transported and disposed of at the KEIL TSDF at Ambalamedu, Kochi, periodically.
21	Provision for parking shall be made within the confines of the site for parking of required number of vehicles, loading and unloading of the vehicles meant for transporting waste to and from the facility.	Complied. A separate parking facility is made within the CBWTF compound.
22	An identification board of durable material and finish shall be displayed at the entrance to the facility. This shall clearly display the name of the facility, the name, address and telephone number of the operator and the prescribed authority, the hours of operation and the telephone numbers of the personnel to be contacted in the event of an emergency.	Complied. Display board of size 6 feet x 4 feet showing all relevant details is displayed.
23	Fire safety equipment such as sand buckets and fire extinguishers should be provided at all the salient points as per Fire and Safety Regulations.	Complied. A full-fledged Fire Hydrant system consisting of 150KL Water storage tanks, 5nos fire hydrant pumps, fire hydrant lines, sprinkler system, etc is installed. The Fire hydrant system is approved by the Department of Fire & Rescue Services, Govt. of Kerala. Portable fire extinguishers are provided at prominent places in the CBWTF.
24	Measures shall be implemented to control pests and insects at the site.	Complied.

		AMC has been awarded to M/s. Central Ware Housing Corporation for carrying out pest control and is in operation.
25	Necessary provision shall be made to prevent and control noise generated, if any, due to the activities at the site.	Complied. Acoustic enclosure provided for DG set. Noise level in CBWTF is monitored periodically. Preventive Maintenance of equipment's is in place
26	The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.	Complied.
27	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 Environmental (Protection) Act 1986 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted and will comply all directions of the authority.
28	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.	Noted and will comply all directions of the statutory authorities.
29	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.	Complied. Advertised in the newspapers, The Hindu Daily and The Malayala Manorama Daily on 09 December 2017. Compliance status along with duly signed copy of the EC, Copies of the newspaper advertisement etc were submitted to SEIAA on 11 November 2017.
30	A copy of the clearance letter shall be sent by the proponent to the concerned Grama Panchayath / District Panchayath /	Complied. Copies submitted to Puthencuruz Panchayath, Thrippunithura

	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.	Municipality, Ernakulam District Collectorate, and Local NGOs. Copy enclosed as Annexure-4 Copy of Environmental clearance made available in KEIL web site, www.keralaenviro.com
31	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.	Complied.
32	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. Details are displayed in metallic board of 3 ft x 3 ft size in green background and yellow letters of Times New Roman font of 40size
33	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.	Complied. Notorised affidavit submitted to SEIAA on 11.11.2017.

Submitted by:



Dr. N. K. Pillai
Chief Executive Officer
Kerala Enviro Infrastructure Limited



KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

Appendix-III
Date: 30.03.2026

AMBIENT AIR MONITORING REPORT FOR THE QUARTER JANUARY - MARCH 2026

Location	Parameters	KSPCB Limits	Unit	Date of monitoring			Maximum	Minimum	Average
				13.01.2026	23.02.2026	23.03.2026			
Station I (Near Administrative building)	PM2.5	60µg/m³	µg/m³	25.36	31.16	20.29	31.16	20.29	25.60
	PM10	100µg/m³	µg/m³	89.95	75.29	62.89	89.95	62.89	76.04
	SO ₂	80µg/m³	µg/m³	2.02	4.87	2.22	4.87	2.02	3.04
	NO _x	80µg/m³	µg/m³	7.37	16.51	5.33	16.51	5.33	9.74
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.030	0.046	0.020	0.05	0.02	0.03
	Ozone	100µg/m³	µg/m³	1.020	0.454	0.210	1.02	0.21	0.56
Station II (Near M&E Plant)	PM2.5	60µg/m³	µg/m³	26.32	29.30	19.08	29.30	19.08	24.90
	PM10	100µg/m³	µg/m³	68.14	74.65	67.28	74.65	67.28	70.02
	SO ₂	80µg/m³	µg/m³	3.13	6.12	2.15	6.12	2.15	3.80
	NO _x	80µg/m³	µg/m³	4.07	8.13	1.47	8.13	1.47	4.56
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.020	0.045	0.051	0.05	0.02	0.04
	Ozone	100µg/m³	µg/m³	0.79	1.249	0.908	1.25	0.79	0.98
Station III (Near 8th cell)	PM2.5	60µg/m³	µg/m³	41.91	15.46	13.65	41.91	13.65	23.67
	PM10	100µg/m³	µg/m³	78.86	81.71	71.50	81.71	71.50	77.36
	SO ₂	80µg/m³	µg/m³	2.45	3.08	4.56	4.56	2.45	3.36
	NO _x	80µg/m³	µg/m³	2.79	16.51	2.07	16.51	2.07	7.12
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.01	0.035	0.051	0.05	0.01	0.03
	Ozone	100µg/m³	µg/m³	0.45	0.454	0.227	0.45	0.23	0.38
Station IV (Near Biomedical plant)	PM2.5	60µg/m³	µg/m³	30.58	31.81	40.99	40.99	30.58	34.46
	PM10	100µg/m³	µg/m³	62.34	58.33	84.87	84.87	58.33	68.51
	SO ₂	80µg/m³	µg/m³	2.09	5.49	3.66	5.49	2.09	3.75
	NO _x	80µg/m³	µg/m³	5.08	14.99	5.08	14.99	5.08	8.38
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.02	0.051	0.012	0.05	0.01	0.03
	Ozone	100µg/m³	µg/m³	0.34	0.227	0.340	0.34	0.23	0.30

End of Report

KEIL-QA/TR

Issue No: 01, Issue Date: 04.03.2026, Amendment No: 00, Amendment Date: Nil

Remarks :

For Kerala Enviro Infrastructure Ltd.



KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

Appendix-III

Date: 30.06.2026

AMBIENT AIR MONITORING REPORT FOR THE QUARTER APRIL - JUNE 2026

Location	Parameters	KSPCB Limits	Unit	Date of monitoring			Maximum	Minimum	Average
				27.04.2026	18.05.2026	15.06.2026			
Station I (Near Administrative building)	PM2.5	60µg/m³	µg/m³	7.32	26.19	33.27	33.27	7.32	22.26
	PM10	100µg/m³	µg/m³	55.35	54.75	40.34	55.35	40.34	50.15
	SO₂	80µg/m³	µg/m³	3.76	6.25	4.80	6.25	3.76	4.94
	NOₓ	80µg/m³	µg/m³	7.51	17.02	12.7	17.02	7.51	12.41
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.023	0.056	0.041	0.06	0.02	0.04
	Ozone	100µg/m³	µg/m³	0.982	1.140	0.568	1.14	0.57	0.90
Station II (Near MEE Plant)	PM2.5	60µg/m³	µg/m³	27.62	17.93	18.21	27.62	17.93	21.25
	PM10	100µg/m³	µg/m³	95.43	34.55	53.70	95.43	34.55	61.23
	SO₂	80µg/m³	µg/m³	2.52	5.99	4.62	5.99	2.52	4.38
	NOₓ	80µg/m³	µg/m³	5.42	7.62	8.13	8.13	5.42	7.06
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.020	0.047	0.039	0.05	0.02	0.04
	Ozone	100µg/m³	µg/m³	1.041	0.790	0.454	1.04	0.45	0.76
Station III (Near 8th cell)	PM2.5	60µg/m³	µg/m³	28.44	37.70	14.69	37.70	14.69	26.94
	PM10	100µg/m³	µg/m³	56.13	51.16	28.24	56.13	28.24	45.18
	SO₂	80µg/m³	µg/m³	2.77	6.57	4.65	6.57	2.77	4.66
	NOₓ	80µg/m³	µg/m³	7.60	17.28	12.2	17.28	7.60	12.36
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.032	0.014	0.037	0.04	0.01	0.03
	Ozone	100µg/m³	µg/m³	0.764	0.680	0.681	0.76	0.68	0.71
Station IV (Near Biomedical plant)	PM2.5	60µg/m³	µg/m³	14.36	23.09	14.86	23.09	14.36	17.44
	PM10	100µg/m³	µg/m³	43.46	57.23	21.40	57.23	21.40	40.70
	SO₂	80µg/m³	µg/m³	2.21	3.69	4.56	4.56	2.21	3.49
	NOₓ	80µg/m³	µg/m³	6.22	15.49	11.43	15.49	6.22	11.05
	Lead	1.0µg/m³	µg/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m³	ng/m³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m³	µg/m³	0.041	0.020	0.039	0.04	0.02	0.03
	Ozone	100µg/m³	µg/m³	0.681	0.790	0.454	0.79	0.45	0.64

End of Report

KEIL/QA/TR

Issue No: 01, Issue Date: 04.03.2020, Amendment No.:00, Amendment Date: Nil

Remarks :

For Kerala Enviro Infrastructure Ltd.

Authorized Signatory

Page 1 of 1

Dr. Vinu. V. Dev
Manager (Quality Assurance)
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303



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Phone: 0484-2722141, 2722241, 2722341

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'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

GROUND WATER ANALYSIS REPORT FOR THE QUARTER JANUARY - MARCH 2026

Appendix IV

Date : 23.03.2026

Client Name & Address:	
KERALA ENVIRO INFRASTRUCTURE LIMITED	Discipline : Chemical Testing
Inside FACT-CD Campus, Ambalamedu P.O., Ernakulam-682 303	Group : Water (Surface Water, Ground Water and Industrial Water)

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.01.2026	02.02.2026	02.03.2026			
Lower Bore well 9M	pH	5.55	5.19	5.36	5.55	5.19	5.37
	Conductivity	1320	720	370	1320.00	370.00	870.00
	Total Dissolved Solids	821	460	335	821.00	335.00	538.67
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	204.26	196.22	116.56	204.26	116.56	172.35
	Total Hardness as CaCO ₃	138.55	86.95	69.72	138.55	69.72	98.41
	Sulfates as SO ₄	130	88	42.5	130.00	42.50	86.83
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	6.34	7.16	6.37	7.16	6.34	6.62
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	28.17	18.22	13.57	28.17	13.57	19.99
	Magnesium	16.59	10.08	8.71	16.59	8.71	11.79
	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore well 12M	pH	5.48	5.46	5.29	5.48	5.29	5.41
	Conductivity	980	610	820	980	610	803.33
	Total Dissolved Solids	626	390	490	626	390	502.00
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	209.01	105.29	145.7	209.01	105.29	153.33
	Total Hardness as CaCO ₃	144.58	65.12	175.30	175.30	65.12	128.33
	Sulfates as SO ₄	100	33	104	104.00	33.00	79.00
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	5.54	6.36	BLQ	6.36	BLQ	BLQ
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	21.73	9.5	27.94	27.94	9.50	19.72
	Magnesium	21.96	10.06	25.66	25.66	10.06	19.23
	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

Sample is drawn by KEIL-Laboratory
As per IS 17614 Part 1: 2025
BLQ-Below Limit Of Quantification
mg/L = ppm

This result relates only to the sample tested.
This certificate shall not be reproduced except in
full, without the written approval of the laboratory.

FOR AND ON BEHALF OF
KERALA ENVIRO INFRASTRUCTURE LIMITED-
LABORATORY

AUTHORIZED SIGNATORY



KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CTN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

GROUND WATER ANALYSIS REPORT FOR THE QUARTER JANUARY - MARCH 2026

Appendix IV

Date : 23.03.2026

Client Name & Address:	
KERALA ENVIRO INFRASTRUCTURE LIMITED	Discipline : Chemical Testing
Inside FACT-CD Campus, Ambalamedu P.O., Ernakulam-682 303	Group : Water (Surface Water, Ground Water and Industrial Water)

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.01.2026	02.02.2026	02.03.2026			
Lower Bore well 30M	pH	6.19	6.2	6.14	6.2	6.14	6.18
	Conductivity	190	64	116	190	64	125.53
	Total Dissolved Solids	128	40	70	128	40	79.33
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	19	10.05	10.68	19	10.05	13.24
	Total Hardness as CaCO ₃	46.18	19.76	15.94	46.18	15.94	27.29
	Sulfates as SO ₄	BLQ	BLQ	7.8	7.8	7.8	7.80
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	12.88	3.96	3.99	12.88	3.96	6.94
	Magnesium	3.41	2.4	1.45	3.41	1.45	2.42
Upper Bore Well 80 M	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	pH	5.44	5.23	5.28	5.44	5.23	5.32
	Conductivity	120	210	210	210	120	180.00
	Total Dissolved Solids	74	100	125	125	74	99.67
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	20.43	33.98	34.28	33.98	20.43	26.23
	Total Hardness as CaCO ₃	28.11	29.64	25.9	29.64	25.90	27.88
	Sulfates as SO ₄	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	8.05	7.92	7.19	8.05	7.19	7.72
	Magnesium	1.95	2.4	1.94	2.40	1.94	2.10
	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

End of the Report

Sample is drawn by KEIL Laboratory

As per IS 15614-1 Part 1 : 2025

BLQ-Below Limit Of Quantitation

ppm = mg/L

Test results relates only to the sample tested.
This certificate shall not be reproduced except in full, without the written approval of the laboratory.

FOR AND ON BEHALF OF
KERALA ENVIRO INFRASTRUCTURE LIMITED-
LABORATORY

**KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY**

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD**GROUND WATER ANALYSIS REPORT FOR THE QUARTER JANUARY - MARCH 2026****Appendix IV
Date: 23.03.2026**

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.01.2026	02.02.2026	02.03.2026			
Lower Bore Well 9M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 12M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 30M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Upper Bore Well 80M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

End of the Report

Remarks :

Authorized SignatoryDr. Vinu. V. Dev
Manager (Quality Assurance)
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303

KEIL/QA/R/035

Issue No.: 01, Issue Date: 01.03.2020, Amendment No.: 00, Amendment Date.: Nil

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KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

GROUND WATER ANALYSIS REPORT FOR THE QUARTER APRIL - JUNE 2026

Appendix IV

Date : 23.06.2026

Client Name & Address:	
KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O., Ernakulam-682 303	Discipline : Chemical Testing Group : Water (Surface Water, Ground Water and Industrial Water)

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.04.2026	02.05.2026	02.06.2026			
Lower Bore well 9M	pH	5.56	5.7	5.84	5.84	5.56	5.70
	Conductivity	1280	980	620	1280.00	620.00	960.00
	Total Dissolved Solids	750	578	366	750.00	366.00	564.67
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	303.74	146.76	37.18	303.74	37.18	162.56
	Total Hardness as CaCO ₃	139.44	112.10	140	140.00	112.10	130.51
	Sulfates as SO ₄	142	77	27	142.00	27.00	82.07
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	6.46	6.34	6.59	6.59	6.34	6.46
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	39.92	22.27	4.80	39.92	4.80	22.33
	Magnesium	9.68	13.74	31.10	31.10	9.68	18.17
	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore well 12M	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	pH	6.27	5.59	5.60	6.27	5.59	5.82
	Conductivity	550	670	520	670	520	580.00
	Total Dissolved Solids	315	398	306	398	306	339.67
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	77.14	105.18	24.46	105.18	24.46	68.93
	Total Hardness as CaCO ₃	39.84	62.5	38	62.50	38.00	46.78
	Sulfates as SO ₄	50	55	39.5	55.00	39.50	48.17
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	BLQ	7.13	5.77	7.13	BLQ	BLQ
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	11.18	10.34	4.01	11.18	4.01	8.51
	Magnesium	2.9	8.92	6.80	8.92	2.90	6.21
	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

Sample is drawn by KEIL Laboratory
As per IS 17614 (Part 1) : 2025
BLQ-Below limit Of Quantitation
mg/L = ppm

Test results relates only to the sample tested.
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FOR AND ON BEHALF OF
KERALA ENVIRO INFRASTRUCTURE LIMITED-
LABORATORY

AUTHORISED SIGNATORY

Dr. Vihu. V. Dev

Manager (Quality Assurance)
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303

KEIL/QA/R/035

Issue No. 02, Issue Date: 23.06.2023, Amendment No. 01, Amendment Date: 23.06.2023

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KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

GROUND WATER ANALYSIS REPORT FOR THE QUARTER APRIL - JUNE 2026

Appendix IV

Date : 23.06.2026

Client Name & Address:	
KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O., Ernakulam-682 303	Discipline : Chemical Testing Group : Water (Surface Water, Ground Water and Industrial Water)

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.04.2026	02.05.2026	02.06.2026			
Lower Bore well 30M	pH	6.53	6.02	6.66	6.66	6.02	6.41
	Conductivity	126	120	116	126	116	120.67
	Total Dissolved Solids	75	70	68	75	68	71.00
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	16.87	24.95	7.10	24.95	7.1	16.31
	Total Hardness as CaCO ₃	19.92	13.89	24	24	13.89	19.27
	Sulfates as SO ₄	18.1	20	5.5	20	5.5	14.53
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	5.59	3.98	3.20	5.59	3.2	4.26
	Magnesium	1.45	BLQ	3.89	3.89	BLQ	1.78
Upper Bore Well 80 M	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	pH	5.69	6.52	6.44	6.52	5.69	6.22
	Conductivity	240	260	230	260	230	243.33
	Total Dissolved Solids	140	164	135	164	135	146.33
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl ⁻	41.46	47.94	37.92	47.94	37.92	42.44
	Total Hardness as CaCO ₃	23.9	26.79	34	34.00	23.90	28.23
	Sulfates as SO ₄	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Fluoride	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Phenols	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	BOD, 3 Days at 27°C	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	COD	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Zinc	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Lead	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Hexavalent Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Cadmium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Copper	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Dissolved Phosphate	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Calcium	7.19	7.95	3.20	7.95	3.20	6.11
	Magnesium	1.45	1.69	6.32	6.32	1.45	3.15
	Total Alkalinity	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammoniacal Nitrogen	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Oils and Grease	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Total Chromium	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

End of the Report

Sample is drawn by KEIL-Laboratory As per IS 17614 (Part 1) : 2025 BLQ-Below limit Of Quantitation ppm = mg/L	Test results relates only to the sample tested. This certificate shall not be reproduced except in full, without the written approval of the laboratory.	FOR AND ON BEHALF OF KERALA ENVIRO INFRASTRUCTURE LIMITED- LABORATORY AUTHORISED SIGNATORY
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KEIL/QA/R/035

Issue No.: 02, Issue Date: 23.06.2023, Amendment No.: 00, Amendment Date.: 23.06.2023

Page 2 of 2

Dr. Vinu V. Dev
Manager (Quality Assurance)
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303



KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

GROUND WATER ANALYSIS REPORT FOR THE QUARTER APRIL - JUNE 2026

Appendix IV
Date: 23.06.2026

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.04.2026	02.05.2026	02.06.2026			
Lower Bore Well 9M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 12M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 30M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Upper Bore Well 80M	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

End of the Report

Remarks :


Authorized Signatory

Dr. Vinu. V. Dev
Manager (Quality Assurance)
Kerala Enviro Infrastructure Lt
Ambalamedu - 682 303

KEIL/QA/R/035

Issue No.: 01, Issue Date: 01.03.2020, Amendment No.: 00, Amendment Date.: Nil

**KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY**

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2026/003
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	17.04.2026
Client Name & Address: KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Receipt	27.03.2026
	Sample Code	5664
	Sample Description	Surface Water - Ambalamedu Lake
	Analysis Started	27.03.2026
	Analysis Completed	16.04.2026

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	6.84 at 24.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	42	µS/cm	APHA 24 th Edition 2510 B
3.	Total Dissolved Solids (TDS)	BLQ (LOQ=25.0)	mg/L	IS:3025 (Part 16)
4.	Total Suspended Solids (TSS)	BLQ (LOQ=10.0)	mg/L	IS:3025 (Part 17)
5.	Chlorides as Cl ⁻	46.48	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	15.87	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO ₄ ²⁻	BLQ (LOQ = 5.0)	mg/L	APHA 24 th Edition 4500- SO ₄ ²⁻ - E
8.	Fluoride as F ⁻	BLQ (LOQ = 0.5)	mg/L	APHA 24 th Edition 4500-F- C
9.	Phenolic compounds as C ₆ H ₅ OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 th Edition 5530 D
10.	Biochemical Oxygen Demand (BOD), 3 Days at 27°C	BLQ (LOQ = 2.0)	mg/L	IS:3025(Part 44)
11.	Chemical Oxygen Demand (COD)	BLQ (LOQ = 5.0)	mg/L	IS: 3025(Part 58)
12.	Zinc as Zn	BLQ (LOQ = 0.1)	mg/L	IS:3025 (Part 49)
13.	Lead as Pb	BLQ (LOQ =1.0)	mg/L	IS:3025 (Part 47)
14.	Hexavalent Chromium as Cr ⁶⁺	BLQ (LOQ = 0.2)	mg/L	APHA 24 th Edition 3500-Cr B
15.	Nickel as Ni	BLQ (LOQ = 0.5)	mg/L	IS:3025 (Part 54)
16.	Cadmium as Cd	BLQ (LOQ = 0.1)	mg/L	IS:3025 (Part 41)
17.	Copper as Cu	BLQ (LOQ = 0.5)	mg/L	IS:3025 (Part 42)
18.	Dissolved Phosphate as PO ₄ ³⁻	0.12	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	3.18	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	1.93	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	16.48	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH ₃ -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 th Edition 4500 NH ₃ -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 th Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)
25.	Manganese	BLQ (LOQ = 0.05)	mg/L	APHA 24 th Edition 3111 B
26.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th Edition 4500-NO ₃ - E

End of the Report

Sample is drawn by KEIL-Laboratory
As per IS 17614 (Part 1) 2025.
BLQ – Below Limit of Quantitation
mg/L = ppm
LOQ – Limit of Quantitation

Test results relate only to the sample tested.
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FOR AND ON BEHALF OF
KERALA ENVIRO INFRASTRUCTURE LIMITED -
LABORATORY

AUTHORISED SIGNATORY

KEIL/QA/R/033, Issue No.: 01, Issue Date: 01.03.2020,

Amendment No.: 00, Amendment Date: Nil

Page 1 of 1

Dr. Vinu. V. Dev

Manager (Quality Assurance)

Kerala Enviro Infrastructure Ltd.

**KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY**

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in

CIN: U24129KL2005PLC017973

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2026/001
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	17.04.2026
Client Name & Address: KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Receipt	27.03.2026
	Sample Code	5662
	Sample Description	Surface water – Upstream
	Analysis Started	27.03.2026
	Analysis Completed	16.04.2026

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	9.12 at 24.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	180	µS/cm	APHA 24 th Edition 2510 B
3.	Total Dissolved Solids (TDS)	105	mg/L	IS:3025 (Part 16)
4.	Total Suspended Solids (TSS)	BLQ (LOQ = 10.0)	mg/L	IS:3025 (Part 17)
5.	Chlorides as Cl ⁻	636.95	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	31.74	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO ₄ ²⁻	BLQ (LOQ = 5.0)	mg/L	APHA 24 th Edition 4500- SO ₄ ²⁻ - E
8.	Fluoride as F ⁻	BLQ (LOQ = 0.5)	mg/L	APHA 24 th Edition 4500-F- C
9.	Phenolic compounds as C ₆ H ₅ OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 th Edition 5530 D
10.	Biochemical Oxygen Demand (BOD), 3 Days at 27°C	BLQ (LOQ = 2.0)	mg/L	IS:3025(Part 44)
11.	Chemical Oxygen Demand (COD)	11.88	mg/L	IS: 3025 (Part 58)
12.	Zinc as Zn	BLQ (LOQ = 0.1)	mg/L	IS:3025 (Part 49)
13.	Lead as Pb	BLQ (LOQ = 1.0)	mg/L	IS:3025 (Part 47)
14.	Hexavalent Chromium as Cr ⁶⁺	BLQ (LOQ = 0.2)	mg/L	APHA 24 th Edition 3500-Cr B
15.	Nickel as Ni	BLQ (LOQ = 0.5)	mg/L	IS:3025 (Part 54)
16.	Cadmium as Cd	BLQ (LOQ = 0.1)	mg/L	IS:3025 (Part 41)
17.	Copper as Cu	BLQ (LOQ = 0.5)	mg/L	IS:3025 (Part 42)
18.	Dissolved Phosphate as PO ₄ ³⁻	0.17	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	6.36	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	3.86	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	10.30	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH ₃ -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 th Edition 4500 NH ₃ -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 th Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)
25.	Manganese	BLQ (LOQ = 0.05)	mg/L	APHA 24 th Edition 3111 B
26.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th Edition 4500-NO ₃ - E

End of the Report

Sample is drawn by KEIL-Laboratory
As per IS 17614 (Part 1) 2025.
BLQ – Below Limit of Quantitation
mg/L = ppm
LOQ – Limit of Quantitation

Test results relate only to the sample tested.
This certificate shall not be reproduced except
in full, without the written approval of the
laboratory

FOR AND ON BEHALF OF
KERALA ENVIRO INFRASTRUCTURE LIMITED -
LABORATORY

AUTHORISED SIGNATORY

KEIL/QA/R/033, Issue No.: 01, Issue Date: 01.03.2020,

Amendment No.: 00, Amendment Date: Nil

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Dr. Vinu V. Dev

Manager (Quality Assurance)

Kerala Enviro Infrastructure Ltd.



KERALA ENVIRO INFRASTRUCTURE LIMITED – LABORATORY

Inside FACT-CD Campus, Ambalamedu, Kochi-682 303

Phone: 0484-2722141, 2722241, 2722341

E-mail: keillab@beil.co.in



TC - 7616

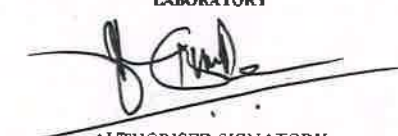
'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2026/002
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	17.04.2026
Client Name & Address: KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Receipt	27.03.2026
	Sample Code	5663
	Sample Description	Surface Water – Down Stream
	Analysis Started	27.03.2026
	Analysis Completed	16.04.2026

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	6.99 at 24.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	3200	µS/cm	APHA 24 th Edition 2510 B
3.	Total Dissolved Solids (TDS)	1865	mg/L	IS:3025 (Part 16)
4.	Total Suspended Solids (TSS)	BLQ (LOQ = 10.0)	mg/L	IS:3025 (Part 17)
5.	Chlorides as Cl ⁻	775.89	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	297.60	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO ₄ ²⁻	51.2	mg/L	APHA 24 th Edition 4500- SO ₄ ²⁻ - E
8.	Fluoride as F ⁻	BLQ (LOQ = 0.5)	mg/L	APHA 24 th Edition 4500-F- C
9.	Phenolic compounds as C ₆ H ₅ OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 th Edition 5530 D
10.	Biochemical Oxygen Demand (BOD), 3 Days at 27°C	BLQ (LOQ = 2.0)	mg/L	IS:3025(Part 44)
11.	Chemical Oxygen Demand (COD)	17.42	mg/L	IS: 3025 (Part 58)
12.	Zinc as Zn	0.102	mg/L	IS:3025 (Part 49)
13.	Lead as Pb	BLQ (LOQ = 1.0)	mg/L	IS:3025 (Part 47)
14.	Hexavalent Chromium as Cr ⁶⁺	BLQ (LOQ = 0.2)	mg/L	APHA 24 th Edition 3500-Cr B
15.	Nickel as Ni	BLQ (LOQ = 0.5)	mg/L	IS:3025 (Part 54)
16.	Cadmium as Cd	BLQ (LOQ = 0.1)	mg/L	IS:3025 (Part 41)
17.	Copper as Cu	BLQ (LOQ = 0.5)	mg/L	IS:3025 (Part 42)
18.	Dissolved Phosphate as PO ₄ ³⁻	1.08	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	23.86	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	57.85	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	20.6	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH ₃ -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 th Edition 4500 NH ₃ -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 th Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)
25.	Manganese	0.151	mg/L	APHA 24 th Edition 3111 B
26.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th Edition 4500-NO ₃ - E

End of the Report

Sample is drawn by KEIL-Laboratory As per IS 17614 (Part 1) 2025. BLQ – Below Limit of Quantitation mg/L = ppm LOQ – Limit of Quantitation	Test results relate only to the sample tested. This certificate shall not be reproduced except in full, without the written approval of the laboratory	FOR AND ON BEHALF OF KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY  AUTHORISED SIGNATORY
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KEIL/QA/R/033, Issue No.: 01, Issue Date: 01.03.2020,

Amendment No.: 00, Amendment Date: Nil

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Dr. Vinu V. Dev
Manager (Quality Assurance)
Kerala Enviro Infrastructure Ltd.
Ambalamedu - 682 303



KERALA ENVIRO INFRASTRUCTURE LTD.

Common TSDF Project, Inside FACT CD Campus, Ambalamedu, Kochi - 682 303
Phone: 0484-2722141, 241, 341, 2950433, 2980433, E-mail: drnkpillai@gmail.com
GSTIN: 32AACCK6979P1ZS, CIN: U24129KL2005PLC017973

Noise level monitoring report for the quarter January- March 2026

Location	Frequency	KSPCB Limits	Unit	Date of monitoring			Maximum	Minimum	Average
				22.01.2026	26.02.2026	26.03.2026			
KEIL Main Entrance	Day	75	DB	48.3	53.4	48.9	53.4	48.3	50.20
	Night	70	DB	47.5	52.4	47.4	52.4	47.4	49.10
CBWTF Entrance	Day	75	DB	53.2	62.8	53.8	62.8	53.2	56.60
	Night	70	DB	52.4	62.5	52.7	62.5	52.4	55.87

Noise level monitoring report for the quarter April- June 2026

Location	Frequency	KSPCB Limits	Unit	Date of monitoring			Maximum	Minimum	Average
				30.04.2026	28.05.2026	25.06.2026			
KEIL Main Entrance	Day	75	DB	52.5	53.4	54.8	54.8	52.5	53.57
	Night	70	DB	51.8	52.1	-	52.1	51.8	51.95
CBWTF Entrance	Day	75	DB	52.6	52.3	52.4	52.6	52.3	52.43
	Night	70	DB	51.4	51.6	-	51.6	51.4	51.50


M. Pragasam