

**HALF YEARLY PROGRESS REPORT OF COMPLIANCE  
WITH ENVIROMENTAL CLEARANCE CONDITIONS  
(Half year ending 31 December 2025)**

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.	Display board placed at the entrance of the unit.  There is no discharge of effluent from the unit. Effluent generated is internally used in quench tower, floor washing, vehicle washing, irrigation and gardening etc.
2	A notarised affidavit that all the conditions shall be strictly implemented should be submitted before the issuance of EC.	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.	Noted
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 management measures undertaken by the	Noted.

	project proponent in the documents submitted to SEIAA, and the mitigation measures and waste management proposal as assured in the Form -1 and Form-1A, 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 E.C subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C 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	<p>Necessary assistance for entry And inspection by the concerned officials and staff should be provided by the project proponents.</p> <p>Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal action under the Environment (Protection) Act 1986.</p> <p>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.</p>	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.	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.

General Conditions of Environmental Clearance		
S.No.	Condition	Status
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.	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.  There will not be any mixing during of bio-medical waste during receipt, transportation, storage and treatment.
3	Plastic wastes should be treated and disposed separately.	Plastic waste is supplied to KEIL in red coloured bags. This is disinfected by autoclaving and disinfected plastic waste is supplied to plastic recyclers after segregation and shredding.
4	Untreated biomedical waste shall be transported only in such vehicle as may be authorized for the purpose by the competent authority as specified by the government.	Dedicated vehicles are used for transportation of Bio-medical waste from various Health care 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 smooth surface to minimize water retention. The waste cabin shall be so designed that it is easy to wash and disinfect.	Complying.
6	Every time a vehicle is unloaded, the vehicle and empty waste containers shall be washed properly and disinfect.	Complying. The Bio-medical waste carrying vehicles after unloading the Bio-medical waste is cleaned and disinfected with Sodium Hypochlorite solution.
7	No treated 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.	Complying.  Separate rooms provided for incinerators, autoclaves, Shredder etc.  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.	KEIL has obtained Consent to operate from Kerala State Pollution Control Board for operating the CBWTF the present consent to operate / authorisation 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.	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.	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 equipments used for the treatment should be cleaned every day and the waste water should be treated before further usage.	Complying.
13	No effluent should be discharged out of the premises.	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.	There is no STP installed in KEIL. 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.	12 nos Solar streetlights were installed in the Bio-medical waste treatment Facility and are in operation.
16	Rain Water Harvesting capacity should be installed as per the	Complying.

	prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.	Rainwater falling on the roof of the administrative building is collected and diverted to Fire water tank.
17	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	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.	Compound wall has been constructed around the BMWTF (3.5acres).
19	Green belt should be provided by using common local tree species around the project area.	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 rain water during the monsoon.	Incineration ash generated is stored in ash storage and transported and disposed in own TSDF of KEIL at Ambalamedu, Kochi.
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.	Separate parking area (10m x 10m) provided for parking BMW carrying vehicle.
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.	Identification Board of 4x6 size with required details are maintained at the entrance of the unit.
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.	<p>A full-fledged Fire Hydrant system consisting of 150KL Water storage tank, 5nos fire hydrant pumps, fire hydrant lines, sprinkler system etc.</p> <p>The Fire hydrant system is approved by the Department of Fire &amp; Rescue Services, Govt. of Kerala.</p> <p>Portable fire extinguishers are provided at prominent places in the CBWTF.</p>

24	Measures shall be implemented to control pests and insects at the site.	<p>Pests and insects control has been carried out by engaging professional agencies like Central Ware Housing corporation. Govt. Of India.</p> <p>AMC for regular pest &amp; insect control has been placed with Central Warehousing Corporation, Ernakulam Unit.</p>
25	Necessary provision shall be made to prevent and control noise generated, if any, due to the activities at the site.	<p>Motors purchased generate noise below 75 dBA. Acoustic enclosure provided for DG set.</p> <p>Noise level in CBWTF is monitored periodically.</p>
26	The conditions specified in the Companies Act, 2013 should be observed for Corporate Social Responsibility.	Complying Details of CSR spending is enclosed as Annexure-2.
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	<p>Complied.</p> <p>Advertised in the newspapers, The Hindu Daily and The Malayala Manorama Daily on 09 December 2017.</p> <p>Compliance status along with duly signed copy of the EC, Copies of the</p>

	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 <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> . 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 advertisement etc were submitted to SEIAA on 11 November 2017.
30	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayath / District Panchayath / 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.	Complied. Copies submitted to Puthencuruz Panchayath, Thrippunithura Municipality, Ernkulam District Collectorate, Local NGOs.  Copy of Environmental clearance made available in KEIL web site, <a href="http://www.keralaenviro.com">www.keralaenviro.com</a>
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	Complied. Notorised affidavit submitted to SEIAA on 11.11.2017.

Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	
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Submitted by:



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



# KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

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

Appendix-III

Date :25.09.2025

## AMBIENT AIR MONITORING REPORT FOR THE QUARTER JULY - SEPTEMBER 2025

Location	Parameters	KSPCB Limits	Unit	Date of monitoring			Maximum	Minimum	Average
				15.07.2025	25.08.2025	15.09.2025			
Station I (Near Administrative building)	PM2.5	60µg/m <sup>3</sup>	µg/m <sup>3</sup>	30.91	31.23	10.18	31.23	10.18	24.11
	PM10	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	65.92	63.15	48.96	65.92	48.96	59.34
	SO <sub>2</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	6.89	4.01	5.92	6.89	4.010	5.607
	NO <sub>x</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	5.12	6.20	7.62	7.62	5.12	6.31
	Lead	1.0µg/m <sup>3</sup>	µg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.038	0.041	0.012	0.041	0.012	0.030
	Ozone	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	1.020	1.110	0.908	1.110	0.908	1.013
Station II (Near MEE Plant)	PM2.5	60µg/m <sup>3</sup>	µg/m <sup>3</sup>	34.09	32.74	21.39	34.09	21.39	29.41
	PM10	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	53.86	55.29	44.39	55.29	44.39	51.18
	SO <sub>2</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	3.98	7.45	3.34	7.45	3.34	4.92
	NO <sub>x</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	4.37	4.16	8.38	8.38	4.16	5.64
	Lead	1.0µg/m <sup>3</sup>	µg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.048	0.05	0.006	0.050	0.006	0.035
	Ozone	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.914	1.060	0.794	1.060	0.794	0.923
Station III (Near 8th cell)	PM2.5	60µg/m <sup>3</sup>	µg/m <sup>3</sup>	32.41	30.58	25.19	32.41	25.19	29.39
	PM10	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	48.51	51.82	68.46	68.46	48.51	56.26
	SO <sub>2</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	3.41	4.16	2.03	4.16	2.03	3.20
	NO <sub>x</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	4.02	3.95	8.63	8.63	3.95	5.53
	Lead	1.0µg/m <sup>3</sup>	µg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.035	0.040	0.007	0.040	0.007	0.027
	Ozone	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.782	0.990	0.681	0.990	0.681	0.818

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



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Appendix-III  
Date :24.12.2025

## AMBIENT AIR MONITORING REPORT FOR THE QUARTER OCTOBER - DECEMBER 2025

Location	Parameters	KSPCB Limits	Unit	Date of monitoring			Maximum	Minimum	Average
				13.10.2025	03.11.2025	01.12.2025			
Station I (Near Administrative building)	PM2.5	60µg/m <sup>3</sup>	µg/m <sup>3</sup>	12.31	17.82	52.95	52.95	12.31	27.69
	PM10	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	84.49	80.96	87.36	87.36	80.96	84.27
	SO <sub>2</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	5.61	5.05	2.08	5.61	2.080	4.247
	NO <sub>x</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	7.62	4.57	5.84	7.62	4.57	6.01
	Lead	1.0µg/m <sup>3</sup>	µg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.022	0.043	0.049	0.049	0.022	0.038
	Ozone	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.795	1.240	0.341	1.240	0.341	0.792
Station II (Near MEE Plant)	PM2.5	60µg/m <sup>3</sup>	µg/m <sup>3</sup>	25.48	-	51.99	51.99	25.48	38.74
	PM10	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	88.14	66.38	56.37	88.14	56.37	70.30
	SO <sub>2</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	3.53	4.47	2.84	4.47	2.84	3.61
	NO <sub>x</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	8.38	5.84	11.69	11.69	5.84	8.64
	Lead	1.0µg/m <sup>3</sup>	µg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.007	0.035	0.026	0.035	0.007	0.023
	Ozone	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	1.589	0.908	0.341	1.589	0.341	0.946
Station III (Near 8th cell)	PM2.5	60µg/m <sup>3</sup>	µg/m <sup>3</sup>	35.92	-	43.36	43.36	35.92	39.64
	PM10	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	55.90	60.71	65.32	65.32	55.90	60.64
	SO <sub>2</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	2.95	4.20	2.18	4.20	2.18	3.11
	NO <sub>x</sub>	80µg/m <sup>3</sup>	µg/m <sup>3</sup>	7.88	4.83	9.91	9.91	4.83	7.54
	Lead	1.0µg/m <sup>3</sup>	µg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m <sup>3</sup>	ng/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m <sup>3</sup>	µg/m <sup>3</sup>	0.004	0.020	0.041	0.041	0.004	0.022
	Ozone	100µg/m <sup>3</sup>	µg/m <sup>3</sup>	1.249	0.681	0.341	1.249	0.341	0.757

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

Dr. Vinu. V. Dev



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

## GROUND WATER ANALYSIS REPORT FOR THE QUARTER JULY - SEPTEMBER 2025

Appendix IV  
Date : 25.09.2025

Client Name & Address: KERALA STATE POLLUTION CONTROL BOARD Regional Office, Ernakulam - 682 020		Discipline : Chemical Testing
		Group : Water (Surface Water, Ground Water and Industrial Water)

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.07.2025	18.08.2025	25.09.2025			
Lower Bore well 9M	pH	5.58	6.26	5.66	6.26	5.58	5.83
	Conductivity	660	400	510	660.00	400.00	523.33
	Total Dissolved Solids	415	250	295	415.00	250.00	320.00
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	88.06	18.59	94.95	94.95	18.59	67.20
	Total Hardness as CaCO <sub>3</sub>	122.98	84.00	98.79	122.98	84.00	101.92
	Sulfates as SO <sub>4</sub>	140	95	70	140	70	101.67
	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	8.71	8.04	8.71	6.34	7.70
	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	39.59	28.86	22.63	39.59	22.63	30.36
	Magnesium	5.88	7.78	10.29	10.29	5.88	7.98
	Total Alkalinity	BLQ	BLQ	6.03	6.03	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	5.52	5.92	5.7	5.92	5.52	5.71
	Conductivity	500	470	370	500.00	370.00	446.67
	Total Dissolved Solids	301	280	215	301.00	215.00	265.33
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	71.42	95.68	73.82	95.68	71.42	80.31
	Total Hardness as CaCO <sub>3</sub>	106.85	76	58.47	106.85	58.47	80.44
	Sulfates as SO <sub>4</sub>	45	47.00	50	50.00	45.00	47.33
	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	26.66	12.83	11.31	26.66	11.31	16.93
	Magnesium	9.8	10.69	7.35	10.69	7.35	9.28
	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  
  
AUTHORIZED SIGNATORY

KEIL/QA/R/035

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

Page 1 of 2

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



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

## GROUND WATER ANALYSIS REPORT FOR THE QUARTER JULY - SEPTEMBER 2025

Appendix IV  
Date : 25.09.2025

Client Name & Address: KERALA STATE POLLUTION CONTROL BOARD Regional Office, Ernakulam - 682 020		Discipline : Chemical Testing
		Group : Water ( Surface Water, Ground Water and Industrial Water)

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.07.2025	18.08.2025	25.09.2025			
Lower Bore well 30M	pH	5.82	6.86	6.18	6.86	5.82	6.29
	Conductivity	152	71.00	89	152	71	104.00
	Total Dissolved Solids	91	45.00	42.5	91	42.5	59.50
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	19.08	9.71	10.44	19.08	9.71	13.08
	Total Hardness as CaCO <sub>3</sub>	44.35	22	22.18	44.35	22	29.51
	Sulfates as SO <sub>4</sub>	5.9	BLQ	BLQ	5.9	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	13.74	7.21	4.85	13.74	4.85	8.60
	Magnesium	2.45	BLQ	2.45	2.45	BLQ	1.60
	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	
Upper Bore Well 80 M	pH	5.56	6.10	6.03	6.1	5.56	5.90
	Conductivity	51	140	143	143	51	111.33
	Total Dissolved Solids	34	82.50	85	85	34	67.17
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	7.83	20.40	20.4	20.4	7.83	16.21
	Total Hardness as CaCO <sub>3</sub>	12.1	22.00	16.12	22	12.1	16.74
	Sulfates as SO <sub>4</sub>	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	4.04	6.41	5.67	6.41	4.04	5.37
	Magnesium	BLQ	1.45	BLQ	1.45	BLQ	BLQ
	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

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FOR AND ON BEHALF OF  
KERALA ENVIRO INFRASTRUCTURE LIMITED-  
LABORATORY

AUTHORISED SIGNATORY

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

## GROUND WATER ANALYSIS REPORT FOR THE QUARTER JULY - SEPTEMBER 2025

Appendix IV  
Date: 25.09.2025

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		01.07.2025	18.08.2025	25.09.2025			
Lower Bore Well 9M	Sodium(ppm)	35.245	40.446	41.189	41.189	35.245	38.960
	Potassium(ppm)	20.038	3.190	-	20.038	3.190	11.614
	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 12M	Sodium(ppm)	41.737	32.709	21.54	41.737	21.540	31.995
	Potassium(ppm)	4.41	2.865	-	4.410	2.865	3.638
	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 30M	Sodium(ppm)	15.248	8.967	5.265	15.248	5.265	9.827
	Potassium(ppm)	1.243	0.945	-	1.243	0.945	1.094
	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Upper Bore Well 80M	Sodium(ppm)	6.873	14.168	14.001	14.168	6.873	11.681
	Potassium(ppm)	3.769	0.905	-	3.769	0.905	2.337
	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 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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'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

## GROUND WATER ANALYSIS REPORT FOR THE QUARTER OCTOBER - DECEMBER 2025

Appendix IV  
Date : 24.12.2025

Client Name & Address:		Discipline :	Chemical Testing
KERALA ENVIRO INFRASTRUCTURE LIMITED 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
		09.10.2025	01.11.2025	01.12.2025			
Lower Bore well 9M	pH	5.37	5.67	5.58	5.67	5.37	5.54
	Conductivity	1120	1290	1230	1290	1120	1213
	Total Dissolved Solids	662.5	715	769	769	663	716
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	220.14	249.49	166.33	249.49	166.33	211.99
	Total Hardness as CaCO <sub>3</sub>	147.17	127.49	160	160.00	127.49	144.89
	Sulfates as SO <sub>4</sub>	84	102	140	140	84	108.67
	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	8.36	6.37	6.37	8.36	6.37	7.03
	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	45.25	23.15	24.85	45.25	23.15	31.08
	Magnesium	8.33	16.94	23.81	23.81	8.33	16.36
Total Alkalinity	BLQ	BLQ	BLQ	0.00	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	5.15	5.55	5.57	5.57	5.15	5.42
	Conductivity	980	890	790	980	790	887
	Total Dissolved Solids	582.5	535	534	583	534	551
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	181.01	185.90	139.43	185.90	139.43	168.78
	Total Hardness as CaCO <sub>3</sub>	141.12	65.74	120.00	141.12	65.74	108.95
	Sulfates as SO <sub>4</sub>	59	101	108	108	59	89.33
	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	5.85	5.57	5.57	5.85	5.57	5.66
	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	43.63	9.58	12.02	43.63	9.58	21.74
	Magnesium	7.84	10.17	21.87	21.87	7.84	13.29
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. 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
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KEIL/QA/R/035

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

Dr. Vinu. V. Dev  
Manager (Quality Assurance)



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

## GROUND WATER ANALYSIS REPORT FOR THE QUARTER OCTOBER - DECEMBER 2025

Appendix IV  
Date : 24.12.2025

Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> Inside FACT-CD Campus, Ambalamedu P.O., Ernakulam-682 303	Discipline : <b>Chemical Testing</b> Group : <b>Water ( Surface Water, Ground Water and Industrial Water)</b>
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Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		09.10.2025	01.11.2025	01.12.2025			
Lower Bore well 30M	pH	6.29	6.01	6.59	6.59	6.01	6.30
	Conductivity	153	180.00	165	180	153	166
	Total Dissolved Solids	95	105	98	105	95	99
	Total Suspended Solids	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Chlorides as Cl-	17.61	17.61	14.68	17.61	14.68	16.63
	Total Hardness as CaCO <sub>3</sub>	34.27	46.82	30.00	46.82	30.00	37.03
	Sulfates as SO <sub>4</sub>	BLQ	BLQ	BLQ	BLQ	BLQ	46.67
	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	8.89	7.19	11.22	11.22	7.19	9.10
	Magnesium	2.94	7.02	BLQ	7.02	BLQ	3.32
	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
	Upper Bore Well 80 M	pH	5.60	5.67	5.69	5.69	5.60
Conductivity		159	150	130	159	130	146
Total Dissolved Solids		103	90	89	103	89	94
Total Suspended Solids		BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Chlorides as Cl-		22.99	22.01	18.10	22.99	18.10	21.03
Total Hardness as CaCO <sub>3</sub>		26.21	23.90	20.00	26.21	20.00	23.37
Sulfates as SO <sub>4</sub>		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		8.08	6.39	3.21	8.08	3.21	5.89
Magnesium		1.47	1.93	2.92	2.92	1.47	2.11
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 <b>KERALA ENVIRO INFRASTRUCTURE LIMITED-</b> <b>LABORATORY</b>  AUTHORIZED SIGNATORY
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KEIL/QA/R/035

Dr. Vinu. V. Dev



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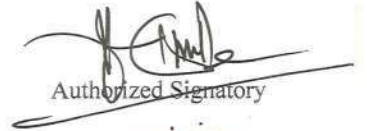
## GROUND WATER ANALYSIS REPORT FOR THE QUARTER OCTOBER - DECEMBER 2025

Appendix IV  
Date: 24.12.2025

Location / Description	Parameters	Sampling Date			Maximum	Minimum	Average
		09.10.2025	01.11.2025	01.12.2025			
Lower Bore Well 9M	Sodium(ppm)	-	-	-	-	-	-
	Potassium(ppm)	-	-	-	-	-	-
	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 12M	Sodium(ppm)	-	-	-	-	-	-
	Potassium(ppm)	-	-	-	-	-	-
	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Lower Bore Well 30M	Sodium(ppm)	-	-	-	-	-	-
	Potassium(ppm)	-	-	-	-	-	-
	Manganese(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nitrate(ppm)	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
Upper Bore Well 80M	Sodium(ppm)	-	-	-	-	-	-
	Potassium(ppm)	-	-	-	-	-	-
	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 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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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/001
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Receipt	01.12.2025
	Sample Code	5486
	Sample Description	Surface Water - Ambalamedu Lake
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	6.58 at 25.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	37	µS/cm	APHA 24 <sup>th</sup> 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 <sup>-</sup>	12.72	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO <sub>3</sub>	14	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO <sub>4</sub> <sup>2-</sup>	BLQ (LOQ = 5.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500- SO <sub>4</sub> <sup>2-</sup> - E
8.	Fluoride as F <sup>-</sup>	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> Edition 4500-F- C
9.	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> 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 <sup>6+</sup>	BLQ (LOQ = 0.2)	mg/L	APHA 24 <sup>th</sup> 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 <sub>4</sub> <sup>3-</sup>	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 4500 P -E
19.	Calcium as Ca	3.21	mg/L	APHA 24 <sup>th</sup> Edition 3500 Ca -B
20.	Magnesium as Mg	1.46	mg/L	APHA 24 <sup>th</sup> Edition 3500 Mg -B
21.	Total Alkalinity as CaCO <sub>3</sub>	BLQ (LOQ = 5.0)	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH <sub>3</sub> -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500 NH <sub>3</sub> -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 <sup>th</sup> Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)

End of the Report

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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, keillaboratory@gmail.com CIN: U24129KL2005PLC017973

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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/001-A
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Code	5486-A
	Sample Description	Surface Water – Ambalamedu Lake
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameter Tested	Result	Unit	Test Method
1.	Manganese	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 3111 B
2.	Nitrate as NO <sub>3</sub> <sup>-</sup>	BLQ (LOQ = 0.1)	mg/L	APHA 24 <sup>th</sup> Edition 4500-NO3- E
End of the Report				

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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/004
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Receipt	01.12.2025
	Sample Code	5489
	Sample Description	Surface water – Upstream
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	6.86 at 25.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	160	µS/cm	APHA 24 <sup>th</sup> Edition 2510 B
3.	Total Dissolved Solids (TDS)	90	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 <sup>-</sup>	22.99	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO <sub>3</sub>	38	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO <sub>4</sub> <sup>2-</sup>	BLQ (LOQ = 5.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500- SO <sub>4</sub> <sup>2-</sup> - E
8.	Fluoride as F <sup>-</sup>	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> Edition 4500-F- C
9.	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> 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 <sup>6+</sup>	BLQ (LOQ = 0.2)	mg/L	APHA 24 <sup>th</sup> 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 <sub>4</sub> <sup>3-</sup>	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 4500 P -E
19.	Calcium as Ca	6.41	mg/L	APHA 24 <sup>th</sup> Edition 3500 Ca -B
20.	Magnesium as Mg	5.35	mg/L	APHA 24 <sup>th</sup> Edition 3500 Mg -B
21.	Total Alkalinity as CaCO <sub>3</sub>	BLQ (LOQ = 5.0)	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH <sub>3</sub> -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500 NH <sub>3</sub> -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 <sup>th</sup> Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)

End of the Report

Sample is drawn by KEIL-Laboratory  
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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/004-A
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Code	5489-A
	Sample Description	Surface Water - Upstream
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameter Tested	Result	Unit	Test Method
1.	Manganese	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 3111 B
2.	Nitrate as NO <sub>3</sub> <sup>-</sup>	BLQ (LOQ = 0.1)	mg/L	APHA 24 <sup>th</sup> Edition 4500-NO3- E
End of the Report				

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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/003
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> <b>Inside FACT-CD Campus, Ambalamedu P.O.</b> <b>Ernakulam-682 303</b>	Sample Receipt	01.12.2025
	Sample Code	5488
	Sample Description	Surface Water – Middle Stream
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	6.78 at 25.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	330	µS/cm	APHA 24 <sup>th</sup> Edition 2510 B
3.	Total Dissolved Solids (TDS)	170	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 <sup>-</sup>	14.68	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO <sub>3</sub>	54	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO <sub>4</sub> <sup>2-</sup>	BLQ (LOQ = 5.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500- SO <sub>4</sub> <sup>2-</sup> - E
8.	Fluoride as F <sup>-</sup>	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> Edition 4500-F- C
9.	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> 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 <sup>6+</sup>	BLQ (LOQ = 0.2)	mg/L	APHA 24 <sup>th</sup> 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 <sub>4</sub> <sup>3-</sup>	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 4500 P -E
19.	Calcium as Ca	7.21	mg/L	APHA 24 <sup>th</sup> Edition 3500 Ca -B
20.	Magnesium as Mg	8.76	mg/L	APHA 24 <sup>th</sup> Edition 3500 Mg -B
21.	Total Alkalinity as CaCO <sub>3</sub>	BLQ (LOQ = 5.0)	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH <sub>3</sub> -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500 NH <sub>3</sub> -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 <sup>th</sup> Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)

End of the Report

Sample is drawn by KEIL-Laboratory  
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LOQ – Limit of Quantitation

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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/003-A
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Code	5488-A
	Sample Description	Surface Water – Middle Stream
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameter Tested	Result	Unit	Test Method
1.	Manganese	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 3111 B
2.	Nitrate as NO <sub>3</sub> <sup>-</sup>	BLQ (LOQ = 0.1)	mg/L	APHA 24 <sup>th</sup> Edition 4500-NO3- E

End of the Report

Sample is drawn by KEIL-Laboratory  
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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/002
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> <b>Inside FACT-CD Campus, Ambalamedu P.O.</b> <b>Ernakulam-682 303</b>	Sample Receipt	01.12.2025
	Sample Code	5487
	Sample Description	Surface Water – Down Stream
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameters Tested	Result	Unit	Test Method
1.	pH	6.69 at 25.8°C	-	IS:3025 (Part 11)
2.	Conductivity at 25°C	300	µS/cm	APHA 24 <sup>th</sup> Edition 2510 B
3.	Total Dissolved Solids (TDS)	184	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 <sup>-</sup>	22.01	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO <sub>3</sub>	66	mg/L	IS:3025 (Part 21)
7.	Sulfates as SO <sub>4</sub> <sup>2-</sup>	BLQ (LOQ = 5.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500- SO <sub>4</sub> <sup>2-</sup> - E
8.	Fluoride as F <sup>-</sup>	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> Edition 4500-F- C
9.	Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	BLQ (LOQ = 0.5)	mg/L	APHA 24 <sup>th</sup> 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 <sup>6+</sup>	BLQ (LOQ = 0.2)	mg/L	APHA 24 <sup>th</sup> 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 <sub>4</sub> <sup>3-</sup>	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 4500 P -E
19.	Calcium as Ca	14.43	mg/L	APHA 24 <sup>th</sup> Edition 3500 Ca -B
20.	Magnesium as Mg	7.29	mg/L	APHA 24 <sup>th</sup> Edition 3500 Mg -B
21.	Total Alkalinity as CaCO <sub>3</sub>	BLQ (LOQ = 5.0)	mg/L	IS: 3025 (Part 23)
22.	Ammoniacal Nitrogen as NH <sub>3</sub> -N	BLQ (LOQ = 1.0)	mg/L	APHA 24 <sup>th</sup> Edition 4500 NH <sub>3</sub> -C
23.	Oils and Grease	BLQ (LOQ = 10.0)	mg/L	APHA 24 <sup>th</sup> Edition 5520 B
24.	Total Chromium as Cr	BLQ (LOQ = 0.1)	mg/L	IS: 3025 (Part 52)

End of the Report

Sample is drawn by KEIL-Laboratory  
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## TEST REPORT

Discipline: Chemical Testing	Report No:	KEIL/QA/SW/2025/002-A
Group: Water (Surface Water, Ground Water and Industrial Water)	Date of Issue	24.12.2025
Client Name & Address: <b>KERALA ENVIRO INFRASTRUCTURE LIMITED</b> Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	Sample Code	5487-A
	Sample Description	Surface Water – Down Stream
	Analysis Started	01.12.2025
	Analysis Completed	20.12.2025

Sl. No.	Parameter Tested	Result	Unit	Test Method
1.	Manganese	BLQ (LOQ = 0.05)	mg/L	APHA 24 <sup>th</sup> Edition 3111 B
2.	Nitrate as NO <sub>3</sub> <sup>-</sup>	BLQ (LOQ = 0.1)	mg/L	APHA 24 <sup>th</sup> Edition 4500-NO3- E
End of the Report				

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