

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

Environmental Clearance Details:	Proposal No: SIA/KL/MIS/42326/2018 File No: 1458/EC3/2019/ SEIAA EC No: 85/2021 dated 18-10-2021 State Environment Impact Assessment Authority, Thiruvananthapuram, Kerala
Project:	Kerala Enviro Infrastructure Limited- Capacity Enhancement of Secured Landfill Facility at Existing Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF)
Proposed Activity	Expansion of existing hazardous waste land fill from 10 Lakh MT to 27.5 Lakh MT
Project Location	Block No: 37, Survey No: 205 Vadavucvode Village, Kunnathunadu Taluk , Ernakulam District, Kerala State
Project Proponent: Address:	Kerala Enviro Infra Structure Limited TSDF Project, Inside FACT-CD Campus, Ambalamedu (PO), Ernakulam District Pin: 682 303

Specific Conditions

Sl.No.	Condition	Status
2(a) & 3(i)	Action for avoiding stockpiling of Hazardous Waste in temporary holding areas (covered with roof) during monsoon months.	Entire quantity of waste in the monsoon storage shed was moved to landfill immediately after monsoon period.
2(b) & 3(ii)	Action for keeping landfill areas capped with final cover/intermediate cover / rain protection cover, and action for suspending landfill operations during monsoon period, to reduce infiltration of rain water into the landfill. This action is very important as water body is situated only 290 m away from the boundary of SLF.	Temporary covering of the open cells of landfill is carried out on 19 May 2025, before monsoon period, with Tarpaulin sheets to prevent infiltration on rain water in to the landfill. Waste received after 19 May 2025 is disposed in Monsoon Storage Shed. Temporary covering was removed and waste disposal in 6 th & 8 th cell resumed from 8 th December 2025.
2(c) & 3(iii)	Action for providing proper maintenance of surface water drainage system comprising of drains, channels, catch drains, culverts and basins of the SLF and in the surrounding areas.	Maintenance of drains, channels, catch drains, culverts and basins of the SLF and in the surrounding areas are carried out periodically.
2(d) &	Action for full covering / closure of waste collected and deposited the Landfill, from	2018 Flood waste were disposed in 4 th cell and 5 th cell.

3(iv)	various flood affected areas in the State, during the 2018 Floods and this portion of the SLF should be properly compacted and protected from rains to avoid further leachate generation.	4 th cell & 5 th Cell were closed and capped.
2(e) & 3(v)	Action for harnessing solar energy to meet partial power requirement in the SLF and providing post type, solar yard lighting system, within the SLF and adjoining areas.	5 nos., 50W capacity solar lamps were provided for landfill lighting in October 2021. Planned to install a 150KWp solar power plant over the closed and capped cells 1&3.
2(f) & 3(vi)	Action for planting of local species of trees (non -fruit bearing type trees) ,in the Green Belt area, as well as, in available open spaces, for maintaining a minimum Greenbelt width of 20 m all around, and ensure proper land scape for the compound and Office premise.	196 nos tree saplings were planted during 2025. Minimum 20m width of greenbelt will be maintained around the landfill,
2(g) & 3(vii)	Provide suitable compensatory afforestation area, if additional area is available, including avenue plantations with local species of trees of non-fruit bearing type trees, within the compound.	-do- Saplings of local species of trees are being planted in available area within the compound.
2(h) & 3(viii)	Action for filling the gaps in the fencing / compound wall, provided in all around the compound of the existing as well as proposed SLF, for the protection of the area.	Fencing /compound wall has been provided around the KEIL property and gaps in fencing were filled. Regular repair works are being carried out for the fencing in SLF area.
2(i) & 3(ix)	Action for collecting rain water falling on active tipping areas separately and managing it as leachate, via the leachate collection drain and leachate collection sumps and finally lead to the leachate treatment for treatment and disposal/ reuse.	Active tipping areas of the landfill were covered with double layer system consisting of LDPE sheets and Tarpaulin sheets by the end of May 2024 to prevent rain water ingress. Waste received after 19 May 2025 is disposed in Monsoon Storage shed. Temporary covering was removed and waste disposal in 6 th & 8 th cell resumed from 8 th December 2025. Rainwater, if any entering into the landfill area is collected along with leachate and treated in RO Plant & MEE Plant.
2(j) & 3(x)	Action for installing proper fire hydrants, in and around the SLF, as fires in hazardous waste landfill sites are not uncommon, and provide training /Mock drills, engaging the Plant Operators, for effectively addressing the problems associated associated with fire in	Provided fire hydrants in and around the SLF. Inhouse fire and safety training is given to operators and work assistants regularly.

	consultation with Fire and safety Department.	Also Fire & Safety training is given to employees of KEIL through National Safety Council, Kerala Chapter and Kerala State Productivity Council.
2(k) & 3(xi)	Action for periodic monitoring of ground water quality by establishing Monitoring Wells, at the existing as well as in the proposed SLF, located at specified horizontal distance interval, as well as in vertical positions, for touching four underground geographic zones of (a) on and within the landfill. (b) in the unsaturated subsurface zone (vadose zone) beneath and around the landfill; (c) in the ground water (saturated) zone beneath and around the landfill and (d) in the atmosphere / local area air above and around the landfill, as stipulated in the Guidelines on Hazardous Waste Management issued by CPCB and KSPCB.	There are four monitoring wells, one on the upper side and three on the lower side of landfill for monitoring the ground water quality. KEIL has issued a work order to NEERI for studying the ground water flow characteristics. Initial Site visit completed, ground water sampling scheduled during 2 nd week of January 2026..
Page-6/5	The Environmental 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 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 incorporated therein.	Complied
Page-6/6	Validity of the Environmental Clearance will be for 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 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
Page-6/7	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. Necessary assistance for entry and inspection by the concerned officials and staff should be provided by the project proponents.	Noted
Page-6/8	Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal	Noted

	action under the Environment (Protection) Act 1986.	
Page-6/9	The Half Yearly Compliance Report (HYCRs) with its contents of a covering letter, compliance report and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the Name of the Project, EC No and Date, period of submission and to be sent to the Regional Office of MoEFF & CC and SEIAA by email only at email ID, rosz.bng-mefcc@gov.in and seacseiaakerala@gmail.com ; Hardcopy of HYCRs shall not be acceptable.	Noted and complying.

GENERAL CONDITIONS

I.	Statutory Compliance	Action by KEIL
	<p>Consent to Establish and Consent to Operate from Kerala State Pollution Control Board under Water and Air Act(s) and other relevant acts/rules should be obtained before initiating activity.</p> <p>All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities.</p> <p>Copies of statutory clearance obtained shall be enclosed along with first half yearly compliance report.</p>	<p>KSPCB issued consent variation order on 23-06-2022 enhancing capacity of landfill from 10 Lakh MT to 27.50 lakh MT. Current Consent to operate is valid upto 30-06-2028.</p> <p>Clearances from all other statutory authorities continuing.</p>
	The project proponents shall adhere to all conditions as prescribed in the Protocol for 'Performance Evaluation and Monitoring of the Common Hazardous Waste Treatment, Storage and Disposal Facilities' published by the CPCB in May, 2010.	Complied.
	A Certificate of adequacy of available power from the Agency supplying power to the project along with the load allowed for the project should be obtained.	Power allocation is adequate.
	Permission to draw ground water/surface water shall be obtained from the competent Authority prior to construction/operation of the project.	Ground water is not extracted. Water requirement of KEIL is met from FACT Cochin Division, Ambalamedu, Kochi.
II	Air quality Monitoring and Preservation	
II (i)	1. The project proponent shall install system to carryout Ambient Air Quality Monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to Particulate Matter emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the	4 nos Ambient air quality monitoring stations were purchased and installed in appropriate locations for monitoring PM ₁₀ and PM _{2.5} in reference to Particulate Matter emission, and SO ₂ and NO _x ,

	Plant area at least at four locations (one within and three outside the Plant area at an angle of 120° each), covering upwind and downwind directions.	NO _x in reference to SO ₂ and NO _x emissions.
II (ii)	11. The project proponent shall submit monthly summary report of air quality monitoring to Regional Office of MoEF & CC, SEIAA & Regional Office of KSPCB along with six-monthly compliance report. Gas generated in the land fill should also be reported.	Ambient air quality, Vent Gas generated in the land fill are monitored regularly and reports are submitted to KSPCB, CPCB etc. Reports on Ambient air quality, Vent Gas generated in the land fill are enclosed.
II (iii)	iii. The air pollutant levels namely, SPM, RSPM, SO ₂ , NO _x or critical sectorial parameters, indicated for the project shall be displayed at a convenient location near the main gate of the company and in the public domain.	Display board placed at the entrance of KEIL.
III	Water Quality Monitoring and Preservation	
III (i)	The project proponent shall submit monthly summary report of the results of effluent analysis and monitoring of ground water quality to Regional Office of MoEF & CC, SEIAA & KSPCB along with six-monthly compliance report.	Monthly summary report of the results of effluent analysis and monitoring of ground water quality are enclosed.
III (ii)	No discharge of leachates /waste water in nearby river(s)/pond(s).	There is no discharge of leachates /wastewater to outside the premises. Leachate generated is collected regularly from each Cell and treated in PTP-RO Plant & MEE Plant. Treated water is used for irrigation, gardening, plant washing etc.
III (iii)	The depth of the landfill site shall be decided based on the ground water table at the site.	Complied.
III (iv)	The company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals/solvents.	Complied.
III (v)	All leachates arising from premises should be collected and treated in the ETP and discharged/recycled as per CPCB standards. Toxicity Characteristic Leaching Procedure (TCLP) test to be performed on leachates.	Leachate generated collected regularly from each cell and treated in PTP-RO Plant & MEE Plant.
III (vi)	The Company shall review the unit operations provided for the treatment of effluents. The scheme for treatment of effluents shall be as permitted by the Pollution Control Board under	Details submitted to Kerala State Pollution Control Board and included in Consent to Operate.

	the provisions of Consent to Establish.	
III (vii)	Scrubber water, leachate water or wheel wash effluent shall be treated in the advanced Effluent Treatment Plant to achieve Zero Liquid Discharge.	Complied.
III (viii)	Total fresh water use shall not exceed the proposed requirement as provided in the project details.	Total Water consumption is less than the quantity given in project details.
III (ix)	The ground water level and its quality should be monitored regularly in consultation with State Groundwater Department/Central Ground Water Authority.	There are four monitoring wells, one on the upper side and three on the lower side of landfill for monitoring the ground water quality.
III (x)	Storm water control and its re-use measures as per CGWB and CPCB standards shall be followed for various applications.	Will be complied.
IV	Noise Monitoring and Prevention	
IV (i)	Noise level survey shall be carried as per the prescribed guideline and report in this regard shall be submitted to Regional Office of the Ministry and SEIAA as a part of six-monthly compliance report.	Noise level survey is carried out regularly and report is enclosed.
IV (ii)	The ambient noise levels should confirm to the Standards prescribed under Noise Pollution Rules as prescribed by CPCB. Adequate measure should be taken to reduce ambient air & noise pollution.	The ambient noise levels are within the stipulated limit.
IV (iii)	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	DG set is provided with acoustic enclosure. Employees are advised to use ear plugs / earmuffs in these areas. Sound level is monitored regularly by the Safety Officer.
V	Energy Conservation Measures	
V (i)	Low sulphur diesel shall be used as fuel in DG sets. The location of the DG sets may be decided in consultation with Kerala State pollution Control Board. DG sets should not be housed in sub-basement levels.	Commercial diesel is used as fuel in DG sets. Location of DG set is approved by Factories & Boilers Department & Pollution Control Board. DG set is installed above ground, under roof.
V (ii)	Energy conservation measures like installation of LED /CFLs/TFLs for the lighting the areas outside the building should be an integral part of the project design and should be in place before project commissioning. Used LEDs/CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the Regulatory Authority to	Being complied. KEIL has a facility for collecting mercury vapours in activated carbon from tube lights and CFLs and scientific disposal of the collected activated carbon and crushed tube lights & CFLs after

	avoid mercury contamination. Solar energy may be used to the extent possible.	encapsulation in cement concrete pipes.
V (iii)	The project shall incorporate devices for solar energy generation and utilization to the maximum possible extent with the possibility of contributing the same to the power grid and consumption in future.	5 nos, 50W solar street lights were installed in the landfill area. Proposed to install a 150KWp solar power plant over the closed and capped cells (1&3) of the landfill.
VI	Waste management	
VI (i)	The TSDF should only handle the waste generated from the member units.	Complied. Only waste from member industries is collected and disposed.
VI (ii)	Periodical soil monitoring to check the contamination in and around the site shall be carried out.	Soil is analysed once in six months.
VI (iii)	No non-hazardous wastes, other than the wastes as defined under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, shall be handled in the premises.	Being complied.
VI (iv)	The Project proponent shall not store the Hazardous Wastes more than the quantity that has been permitted by the CPCB/SPCB.	Being complied.
VI (v)	The solid wastes shall be segregated, managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	Being complied.
VI (vi)	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.	Being complied.
VII	Human health issues	
VII (i)	Traffic congestion near the entry and exit points from the roads adjoining the project site shall be avoided. Parking should be fully internalized and no public space should be utilized for parking.	Being complied.
VII (ii)	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Hazard Identification and Risk Assessment (HIRA) to be carried out. Emergency Preparedness Plan / Disaster Management Plan approved by Directorate of Factories & Boilers available.
VII (iii)	Occupational health surveillance of the workers shall be done on a regular basis.	Medical checkup of employees is carried out annually. Last medical checkup was carried out in November-December 2025. Service of part time doctor is available.

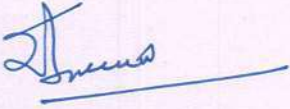
VII (iv)	A First Aid Room shall be provided at the project site.	Facility for first aid is made available at suitable location inside the unit.
VII (v)	All required sanitary and hygienic measures should be in place before starting the activities.	Complied.
VII (vi)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site, Provision should be made for mobile toilets. Safe disposal of wastewater and solid wastes generated including piling debris during the construction phase should be ensured.	Complied.
VIII	Corporate Environment Responsibility	
VIII (i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017 -IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Complied.
VIII (ii)	The conditions specified in the EIA Notifications 2006 and subsequent amendments, the specific directions given by SEIAA/SEAC should be followed under Corporate Environment Responsibility. The activities carried out under CER should be listed with details in Half Yearly Compliance Report along with status of implementation and certificates from the beneficiaries and photographs.	Will be followed.
VIII (iii)	The proponent shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/forest /wildlife norms/ conditions. The company shall have defined system infringements / deviation /violation of the environmental/ forest / wildlife norms / conditions and / or share holders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC and SEIAA as a part of six-monthly report.	Environmental Policy (HSE) approved by the Board of Directors. Will be followed. Will be followed
VIII (iv)	A separate Environmental Monitoring Committee both at the project and company Head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the Head of the Organization. Environmental Monitoring Committee with defined functions and responsibility should fore see post operational	EMC exists at company Head quarter level. EMC formed at unit level and functioning. Post operational environmental problems (eg. increase in traffic

	environmental problems (eg. increase in traffic congestion, power failure, increase in noise level, natural calamities, and pollution related matter etc.) and action taken to solve these immediately with mitigation measures.	congestion, power failure, increase in noise level, natural calamities, and pollution related matter etc.) are discussed in the EMC.
VIII (v)	The proponent shall submit Half Yearly Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data (by e-mail) and upload the same on Company website and shall update the same periodically. The compliance report shall be simultaneously sent to the Regional Office of Ministry of Environment, Forests and Climate Change of India at Bengaluru and also to SEIAA.	Complying. Status of compliance of the stipulated EC conditions including results of monitored data is enclosed with the Half Yearly Compliance Report submitted to MoEF&CC.
VIII (vi)	Self- environmental audit shall be conducted annually. Every years third party environmental audit shall be carried out. '	National Productivity Council (NPC) has conducted the environmental audit of KEIL in 2023.
IX	Other Conditions	
IX (1)	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.	Notorised affidavit was prepared and submitted to SEIAA on 26/11/2021.
IX (2)	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available on the website of SEIAA www.seiaakerala.in. 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.	Published in Malayalam in all kerala editions of The Deshabimani daily and in English in all kerala editions of The New Indian Express Daily on 04/11/2021. Copy of the EC duly signed on all pages and submitted to SEIAA on 26-11-2021.
IX (3)	The proponent shall send a copy of the Clearance letter to the 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 uploaded on the website of the company.	Copies of EC were submitted to Vadavucode puthencruz panchayath, Regional office & district office of KSPCB with a request to display the EC in their notice board. EC uploaded in KEIL website, https://keralaenviro.com
IX (4)	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
IX (5)	The project proponent shall submit the Environmental Statement for each financial year in	Complied

	Form- V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	
IX (6)	The stipulations/conditions issued by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, Solid Waste Management Rules, 2016, Plastic Waste (Management and Handling) Rules, 2016, Construction and Demolition Waste Management Rules, 2016, The Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Being complied.
IX (7)	Safety measures should be implemented as per the Fire and Safety Regulations/SDMA guidelines.	Being complied.
IX (8)	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time. Provision should be made for providing cooking facilities and supply of kerosene or cooking gas to the labourers.	Being followed. Breakfast & tea, lunch/ dinner, afternoon tea & snacks, evening / early morning tea & snacks are distributed to employees on duty, free of cost.
IX (9)	The proponent shall co-operate with and provide facilities and documents/data to the Agencies including the Officials from the Regional of Ministry of Environment, Forests and Climate Change, Bengaluru and SEIAA during their inspection as part of monitoring the implementation of environmental safeguards.	Being complied.
IX (10)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.	Noted.
IX (11)	In case of transfer of EC, the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.	Noted.
IX (12)	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
IX (13)	Unless provided otherwise, all the top soil excavated during construction phase should be stored and re-used for backfilling/ horticulture/ landscaping purposes within the project site.	Being complied.
IX (14)	Concealing factual data or submission of false/ fabricated data may result in revocation of this Environmental Clearance and attract action under	Noted

IX (15)	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
IX (16)	Any appeal against this EC shall lie with the National Green preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

Submitted by:



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 ³	µg/m ³	30.91	31.23	10.18	31.23	10.18	24.11
	PM10	100µg/m ³	µg/m ³	65.92	63.15	48.96	65.92	48.96	59.34
	SO ₂	80µg/m ³	µg/m ³	6.89	4.01	5.92	6.89	4.010	5.607
	NO _x	80µg/m ³	µg/m ³	5.12	6.20	7.62	7.62	5.12	6.31
	Lead	1.0µg/m ³	µg/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m ³	µg/m ³	0.038	0.041	0.012	0.041	0.012	0.030
	Ozone	100µg/m ³	µg/m ³	1.020	1.110	0.908	1.110	0.908	1.013
Station II (Near MEE Plant)	PM2.5	60µg/m ³	µg/m ³	34.09	32.74	21.39	34.09	21.39	29.41
	PM10	100µg/m ³	µg/m ³	53.86	55.29	44.39	55.29	44.39	51.18
	SO ₂	80µg/m ³	µg/m ³	3.98	7.45	3.34	7.45	3.34	4.92
	NO _x	80µg/m ³	µg/m ³	4.37	4.16	8.38	8.38	4.16	5.64
	Lead	1.0µg/m ³	µg/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m ³	µg/m ³	0.048	0.05	0.006	0.050	0.006	0.035
	Ozone	100µg/m ³	µg/m ³	0.914	1.060	0.794	1.060	0.794	0.923
Station III (Near 8th cell)	PM2.5	60µg/m ³	µg/m ³	32.41	30.58	25.19	32.41	25.19	29.39
	PM10	100µg/m ³	µg/m ³	48.51	51.82	68.46	68.46	48.51	56.26
	SO ₂	80µg/m ³	µg/m ³	3.41	4.16	2.03	4.16	2.03	3.20
	NO _x	80µg/m ³	µg/m ³	4.02	3.95	8.63	8.63	3.95	5.53
	Lead	1.0µg/m ³	µg/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m ³	µg/m ³	0.035	0.040	0.007	0.040	0.007	0.027
	Ozone	100µg/m ³	µg/m ³	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



KERALA ENVIRO INFRASTRUCTURE LIMITED - LABORATORY

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

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 ³	µg/m ³	12.31	17.82	52.95	52.95	12.31	27.69
	PM10	100µg/m ³	µg/m ³	84.49	80.96	87.36	87.36	80.96	84.27
	SO ₂	80µg/m ³	µg/m ³	5.61	5.05	2.08	5.61	2.080	4.247
	NO _x	80µg/m ³	µg/m ³	7.62	4.57	5.84	7.62	4.57	6.01
	Lead	1.0µg/m ³	µg/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m ³	µg/m ³	0.022	0.043	0.049	0.049	0.022	0.038
	Ozone	100µg/m ³	µg/m ³	0.795	1.240	0.341	1.240	0.341	0.792
Station II (Near MEE Plant)	PM2.5	60µg/m ³	µg/m ³	25.48	-	51.99	51.99	25.48	38.74
	PM10	100µg/m ³	µg/m ³	88.14	66.38	56.37	88.14	56.37	70.30
	SO ₂	80µg/m ³	µg/m ³	3.53	4.47	2.84	4.47	2.84	3.61
	NO _x	80µg/m ³	µg/m ³	8.38	5.84	11.69	11.69	5.84	8.64
	Lead	1.0µg/m ³	µg/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m ³	µg/m ³	0.007	0.035	0.026	0.035	0.007	0.023
	Ozone	100µg/m ³	µg/m ³	1.589	0.908	0.341	1.589	0.341	0.946
Station III (Near 8th cell)	PM2.5	60µg/m ³	µg/m ³	35.92	-	43.36	43.36	35.92	39.64
	PM10	100µg/m ³	µg/m ³	55.90	60.71	65.32	65.32	55.90	60.64
	SO ₂	80µg/m ³	µg/m ³	2.95	4.20	2.18	4.20	2.18	3.11
	NO _x	80µg/m ³	µg/m ³	7.88	4.83	9.91	9.91	4.83	7.54
	Lead	1.0µg/m ³	µg/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Nickel	20ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Arsenic	6ng/m ³	ng/m ³	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
	Ammonia	400µg/m ³	µg/m ³	0.004	0.020	0.041	0.041	0.004	0.022
	Ozone	100µg/m ³	µg/m ³	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 ₃	122.98	84.00	98.79	122.98	84.00	101.92	
	Sulfates as SO ₄	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	
	Lower Bore well 12M	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	
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 ₃		106.85	76	58.47	106.85	58.47	80.44	
Sulfates as SO ₄		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.
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

KEIL/QA/R/035

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

Page 1 of 2

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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 ₃	44.35	22	22.18	44.35	22	29.51
	Sulfates as SO ₄	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 ₃	12.1	22.00	16.12	22	12.1	16.74
	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	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

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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 ₃	147.17	127.49	160	160.00	127.49	144.89
	Sulfates as SO ₄	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 ₃	141.12	65.74	120.00	141.12	65.74	108.95
	Sulfates as SO ₄	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

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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: 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
		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 ₃	34.27	46.82	30.00	46.82	30.00	37.03
	Sulfates as SO ₄	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	5.65
	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 ₃	26.21	23.90	20.00	26.21	20.00	23.37
	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	8.08	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 KERALA ENVIRO INFRASTRUCTURE LIMITED- LABORATORY AUTHORIZED SIGNATORY Dr. Vinu. V. Dev
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KEIL/QA/R/035



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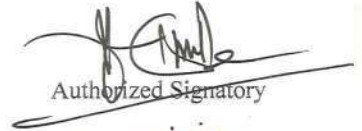
GROUND WATER ANALYSIS REPORT FOR THE QUARTER OCTOBER - DECEMBER 2025

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: KERALA ENVIRO INFRASTRUCTURE LIMITED 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 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 ⁻	12.72	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	14	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⁻	BLQ (LOQ = 0.05)	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	3.21	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	1.46	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	BLQ (LOQ = 5.0)	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)

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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Dr. Vinu V. Dev



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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 th Edition 3111 B
2.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th Edition 4500-NO3- E
End of the Report				

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LOQ – Limit of Quantitation

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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: KERALA ENVIRO INFRASTRUCTURE LIMITED 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 th 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 ⁻	22.99	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	38	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⁻	BLQ (LOQ = 0.05)	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	6.41	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	5.35	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	BLQ (LOQ = 5.0)	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)

End of the Report

Sample is drawn by KEIL-Laboratory
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mg/L = ppm
LOQ – Limit of Quantitation

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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: KERALA ENVIRO INFRASTRUCTURE LIMITED 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 th Edition 3111 B
2.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th 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: KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	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 th 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 ⁻	14.68	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	54	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⁻	BLQ (LOQ = 0.05)	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	7.21	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	8.76	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	BLQ (LOQ = 5.0)	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)

End of the Report

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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: KERALA ENVIRO INFRASTRUCTURE LIMITED 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 th Edition 3111 B
2.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th Edition 4500-NO3- E

End of the Report

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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: KERALA ENVIRO INFRASTRUCTURE LIMITED Inside FACT-CD Campus, Ambalamedu P.O. Ernakulam-682 303	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 th 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 ⁻	22.01	mg/L	IS:3025 (Part 32)
6.	Total Hardness as CaCO ₃	66	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⁻	BLQ (LOQ = 0.05)	mg/L	APHA 24 th Edition 4500 P -E
19.	Calcium as Ca	14.43	mg/L	APHA 24 th Edition 3500 Ca -B
20.	Magnesium as Mg	7.29	mg/L	APHA 24 th Edition 3500 Mg -B
21.	Total Alkalinity as CaCO ₃	BLQ (LOQ = 5.0)	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)

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: KERALA ENVIRO INFRASTRUCTURE LIMITED 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 th Edition 3111 B
2.	Nitrate as NO ₃ ⁻	BLQ (LOQ = 0.1)	mg/L	APHA 24 th Edition 4500-NO3- 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



COCHIN TEST HOUSE

ANALYTICAL SERVICES & TESTING LABORATORY

XIV-20 / A, Kollanpady, Murungeliparambu Road, Irumpanam P.O., Kochi - 682 309

Mob.: 9446332556, 9846551014, 9387381780. Tel. : 0484 - 2782672

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TC - 7720

Laboratory Approved by Kerala State Pollution Control Board ('A' Grade)

TEST REPORT

Page 1 of 1

Report No.: CTH/LR/25/12/2092

Issue Date: December 16, 2025

Unique Lab Report Number	TC772025000002092F
Name and Address of customer	M/s. Kerala Enviro Infrastructure Ltd., Inside FACT-CD Campus, Ambalamedu, Kochi – 682 303
Sample Drawn By	Customer
Condition of the Sample	Acceptable
Particulars of the sample	Soil Sample
Location of Sampling	Near Landfill Cell No. 4
Sampling Method	NA
Sample Quantity	1 Kg
Sample code	25/12/2092
Date of receipt of sample	02.12.2025
Dates of Analysis	03.12.2025 – 15.12.2025
Description of the sample by the customer	SOIL

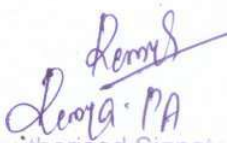
Sl. No.	Parameters	Unit	Test Method	Result
1-	Arsenic as As	mg/Kg	USEPA 3050 B	BDL[MDL-0.038]
2	Cadmium as Cd	mg/Kg	USEPA 3050 B	BDL[MDL-0.038]
3	Chromium as Cr	mg/Kg	USEPA 3050 B	BDL[MDL-0.040]
4	Lead as Pb	mg/Kg	USEPA 3050 B	6.86
5	Manganese as Mn	mg/Kg	USEPA 3050 B	10.46
6	Nickel as Ni	mg/Kg	USEPA 3050 B	0.08
7	Zinc as Zn	mg/Kg	USEPA 3050 B	12.08
8	pH@25°C	---	IS : 2720 [Pt.26]	6.8
9	Electrical Conductivity	mS/m	IS : 14767	49

BDL – Below Detection Limit, MDL – Minimum Detection Limit.

End of Report


Verified By




Authorised Signatory
Chemical
COCHIN TEST HOUSE

NOTE : This test results relate only to the sample submitted for analysis.

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TEST REPORT

Page 1 of 1

Report No.: CTH/LR/25/NNN/515

Issue Date: December 16, 2025

Name and Address of customer	M/s. Kerala Enviro Infrastructure Ltd., Inside FACT-CD Campus, Ambalamedu, Kochi – 682 303
Sample Drawn By	Customer
Condition of the Sample	Acceptable
Particulars of the sample	Soil Sample
Location of Sampling	Near Landfill Cell No. 4
Sampling Method	NA
Sample Quantity	1 Kg
Sample code	25/NNN/515
Date of receipt of sample	02.12.2025
Dates of Analysis	03.12.2025 – 15.12.2025
Description of the sample by the customer	SOIL

Sl. No.	Parameters	Unit	Test Method	Result
1	Colour	---	By Visual	Brown
2	Fluoride as F ⁻	mg/Kg	CTH/CH/SOP/540	1.02
3	Total Dissolved Solids	mg/Kg	IS : 14767 : 2000	320
4	Mercury as Hg	mg/Kg	CTH/CH/SOP/416	ND
5	Cyanide	mg/Kg	CTH/CH/SOP/595	ND
6	Total Organic Carbon	%	IS : 2720 [Pt.22]	0.84
7	Total Suspended Solids	%	CTH/CH/SOP/541	22.5
8	Poly Aromatic Hydrocarbon	mg/Kg	CTH/CH/SOP/596	ND

ND – Not Detected.

End of Report

Verified By



Authorized Signatory
Remya.P.A.
Chemical
COCHIN TEST HOUSE

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