



EC No: F.No.11-90/2011/IA-III dated 17th July 2013

## HALF YEARLY COMPLIANCE REPORT FOR KANNUR INTERNATIONAL AIRPORT FOR THE OPERATIONAL PHASE (MAY 2023- NOVEMBER 2023)



Kannur International Airport Limited  
Registered Office: "Kannur International Airport",  
Kara – Peravoor P O,  
Mattannur, Kannur 670702

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### Monitoring Schedule During Operational Phase

Sl No	Conditions of EC	Compliance Status
1.	Copy of the renewed Integrated Consent to Operate Awarded by Kerala State Pollution Control Board	Complied. The renewed Integrated Consent to Operate was issued by KSPCB vide consent no: KSPCB/KN/ICO/10040652/2023 on 01.12.2023 and the copy of same is presented as <b>Annexure I</b>
2.	Air Emissions	Complied. The ambient air quality is being monitored during the operational phase as part of the environmental monitoring and the results are presented at <b>Annexure II</b> . Ambient air monitoring is done at five locations for the compliance report. Out of the five monitoring locations three were chosen within the site and two locations outside the project site. The observed values are well within the permissible standards. However mitigation measures to reduce the levels including plantation of trees and use of fuel efficient vehicles already implemented at site.
3.	Noise	Complied. The ambient noise is being monitored during the operational phase as part of the environmental monitoring and the results are presented at <b>Annexure III</b> . This complies DGCA guidelines.
4.	Waste Water Discharge	Complied. A Sewage Treatment Plant based on Fluidised Aerobic Bioreactor (FAB) is established for treating the waste water generated.
5.	Drainage and Effluent Management	Complied. The effluent from STP is recycled and used for non-drinking purposes such as irrigation. The rain water flown from the airport is channelized through various sub drains to the perennial water body. Rain water is also used for HVAC.
6.	Water Quality and Water levels	Complied. Surface Water and Ground water quality is monitored during the operational phase as part of the environmental monitoring and the results are presented at <b>Annexure IV</b>
7.	Energy Usage	Complied. Energy conservation is integrated into the project design by providing LED lights, occupancy sensor, energy efficient HVAC duly integrated with BMS, building orientation & envelope and by making use of natural lights. Apart from

		this, utilization of solar energy is considered in the second phase of the project. The treated water from STP is reused for various non-drinking purposes and HVAC systems. Rainwater collecting sump provided.
8.	Emergency Preparedness such as Fire Fighting	There are two fire stations at airside and the service of the units will be utilized during emergencies. Adequate safety measures like fire hydrant, fire extinguishers, smoke detectors and fire tenders are available to prevent from spontaneous fires.
9.	Maintenance of Flora and Fauna	Complied. The airport, encompassing both within and outside the airfield, boasts extensive natural vegetation, mainly scrub jungle and Acacia sp. plantations, which attract a diverse range of native wildlife. Additionally, nearby wetlands and agricultural lands provide vital habitats for native as well as migratory birds including peacocks.
10.	Waste Management	The facilities established for handling solid waste generated during airport operations include Incinerator, Sewage Treatment Plant and a Biogas plant. The recyclable and reusable materials are disposed through 3rd party. STP Capacity - 200 KLD expandable to 400 KLD Biogas Plant Capacity- 500 Kg/day Incinerator Capacity- 125 kg per hour
11.	Health	Airport Health Organization (APHO) is established at Kannur Airport which ensures implementation of International Health Regulation, International Sanitary regulation and Indian Aircraft (Public Health) Rules.
12.	DG Stack Emission	The diesel generator sets are in compliance with the air and noise emission standards set by Central Pollution Control Board in line with the Environment (Protection) Rules. The DG stack emission is being monitored during the operational phase as part of the environmental monitoring and the results are presented at Annexure V
13.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies	Kannur Airport shall submit the duly completed six monthly compliance report to MoEF,RO at Bangalore and to the respective Zonal office of CPCB and SPCB. Environmental Monitoring results form part of the compliance report.

	as well as by e-mail) to the respective Regional Office of MoEF, the respect Zonal office of CPCB and the SPCB	
14.	The environmental statement for each financial year ending 31st March in Form V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respect Regional offices of MoEF by e-mail.	Kannur Airport shall submit the environmental statement for each financial year in Form V to KSPCB and upload in the website and also the same shall be sent to MoEF, RO at Bangalore by e-mail.

## Annexure I

Copy of the renewed Integrated Consent to Operate  
Awarded by Kerala State Pollution Control Board



## **KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. : KSPCB/KN/ICO/10040652/2023

Date of issue : 01-12-2023

### **INTEGRATED CONSENT TO OPERATE - RENEWAL**

**Consent No : KSPCB/KN/ICO/10040652/2023**

**Valid upto : 30-08-2025**

Ref: Consent No.PCB/HO/KNR/ICO/02/2018 dated 10/10/2018 valid upto 30.08.2023

The Integrated Consent to Operate issued as per reference above to M/s..Kannur International Airport Limited Kannur International Airport (PO) Mattannur,Kannur, Kerala is hereby renewed up to 30-08-2025 and issued to M/s. Kannur International Airport Limited, Kannur International Airport (PO), Mattannur,Kannur, Kerala, PIN-670708 .

The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### **GENERAL**

<b>Sl.No</b>	<b>Item</b>	<b>Description</b>
1	Validity	30.08.2025
2	Capital Investment	Rs 165296 lakhs
3	Annual Fee	Rs. 33, 05, 920 /-
4	Fee Remitted	Rs. 66,11,840 /-

#### **1. CONDITIONS AS PER**

##### **The Water (Prevention and Control of Pollution) Act, 1974**

1.1. Sewage/Effluent Treatment Plant consisting of treatment units having adequate capacity shall be shall be properly operated and maintained.

1.2.Water Consumption : 809 KLD

1.3.Effluent Generation : 492 KLD

1.4 Mode of disposal of treated effluent : Reuse for landscaping and as make up water for cooler .

## **2.CONDITIONS AS PER**

### **The Air (Prevention and Control of Pollution) Act, 1981**

2.1. Adequate air pollution control measures shall be provided before the commissioning of the industry/establishment/DG set. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Source of Emission	Stack height above roof level	Control Equipments
1.	DG set 2000 kVA (2 NOS.)	9 m	Acoustic enclosure
2.	DG set 1250 kVA	7 m	Acoustic enclosure
3.	DG set 30 kVA	1 m	Acoustic enclosure
4.	DG set 400 kVA (4 nos.)	5 m	Acoustic enclosure
5.	DG set 250 kVA (2 nos.)	3 m	Acoustic enclosure

## **3. SPECIFIC CONDITIONS**

1. No change or alteration of the unit is to be made without the prior permission of the Board. Any change in the particulars furnished in the references or in the identity of the occupier / authorised agent is to be intimated to the Board forthwith.
2. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water and sound pollution.
3. For renewal of the consent in case of continuance of discharge/operation of the establishment, application in the prescribed form shall be submitted through the web portal of the Board on or before 30.06.2025. Late application will be accepted with a fine or late fee as applicable.
4. This consent is granted based on the particulars and affidavit submitted by the Entrepreneur and any violation/non-compliance/submission of false information will lead to cancellation of consent and stringent action against the applicant and occupier.
5. This consent is granted subjected to the power of the Board to review and make variations in all or any of the conditions as per section 21 (6) of the Air Act 1981 and Section 27 of Water Act 1974.
6. Proper Solid waste management system shall be provided in the unit, arrangements for collection, segregation, storage, handling and disposal of solid Waste including garbage shall be provided as per SWM Rules 2016 and the facility shall be maintained properly..
7. Biodegradable waste shall be segregated from non biodegradable waste at source. Biodegradable shall be treated in biobins/aerobins/biogas plants. Non biodegradable wastes shall be disposed to authorised collectors namely Haritha Karma Sena for the disposal of wastes for authorised treatment.
8. Plastic Waste Management Rules, 2016 and amendments shall be followed for the management of plastic waste. Single use plastic ban as per notifications and Orders for Kerala shall be strictly followed.



9. Pollution control measures provided to contro air pollution, noise pollution and water pollution shall be maintained properly and made functional while the establishment is in operation
10. Hazardous waste generated if any, shall be disposed of in compliance with the provisions of the Hazardous and other Wastes (Management and Trans boundary Movement) Rules, 2016.
11. Waste batteries shall be disposed of as per the Battery Waste Management Rules, 2022.
12. E-wastes shall be disposed of as per the provisions of E-waste management Rules, 2022 and amendments.
13. Environmental statement shall be submitted in Form V for each financial year ending on March 31st.
14. All operational DG sets of capacity 125 kVA and above shall be retrofitted with an Emission Control Device / Equipment having a minimum specified Particulate Matter capturing efficiency of at least 70% in 5 mode D2 cycle for equivalent kVA rating.
15. Hygienic condition and good housekeeping practices shall be maintained in and around the unit..
16. Annual Environmental Statement as on 31st March -in form V as per EP Rules 1986nshall be submitted on or before 30th September every year.
17. Previous consents with all conditions shall be submitted within a month for attaching it in the online consent.

**All other conditions of The Integrated Consent to Operate issued as per reference above remains unchanged.**

Digitally signed by Sudheer Kulamulla  
Parambath  
Date: 2023.12.01 15:07:26 IST

**SIGNATURE OF ISSUING AUTHORITY**

**CHAIRMAN**

**To**

**M/s KANNUR INTERNATIONAL AIRPORT LIMITED**

Kannur International Airport Limited Kannur International Airport (PO) Mattannur, Kannur, Kerala

E-Mail : md@kannurairport.aero

Contact Number :9539074662,

- 1.This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) and search using date of issue/name of the unit/Application Number in “Consent Granted Applications” link in the home page of the Board’s Phoenix website.

## Annexure II

### Ambient Air Quality Monitoring Test Report



# COCHIN TEST HOUSE

## ANALYTICAL SERVICES & TESTING LABORATORY

V / 78, Kollanpady, Murungeliparambu Road, Irumpanam P.O., Kochi - 682 309

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

E-mail: cochtintesthouse1@gmail.com, info@cochtintesthouse.in. Web : www.cochtintesthouse.in



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## AMBIENT AIR MONITORING REPORT

Page 1 of 3

Report No : CTH/LR/23/10/1496

Issue Date : October 27, 2023

Unique Lab Report Number	TC772023000001496F
Name & Address of the customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702
Sampled By	Cochin Test House
Sample Code	23/10/1496
Source of monitoring	Ambient Air Quality Monitoring
Dates of Monitoring	17.10.2023 - 18.10.2023 & 18.10.2023 - 19.10.2023
Dates of analysis	20.10.2023 - 26.10.2023

### 1. a. Frequency and Duration of Sampling

Parameters	Sampling Duration and sampling
Particulate Matter of Size less than 10µm [PM <sub>10</sub> ]	Continuous Sampling for 24 Hours
Particulate Matter of Size less than 2.5µm [PM <sub>2.5</sub> ]	
Sulphur Dioxide [SO <sub>2</sub> ]	Continuous Sampling for 8 Hours [Three 8 Hour Samples in 24 Hours]
Oxides of Nitrogen [NO <sub>x</sub> ]	
Carbon Monoxide [CO]	

### 1. b. Sampling and analysis Techniques

Parameters	Technique	Technical Protocol	Minimum Detection Limit
Particulate Matter of Size less than 10µm [PM <sub>10</sub> ]	Gravimetric Method	IS:5182 Part -23	10 µg/m <sup>3</sup>
Particulate Matter of Size less than 2.5µm [PM <sub>2.5</sub> ]	Gravimetric Method	CTH/CH/SOP/462	4 µg/m <sup>3</sup>
Sulphur Dioxide [SO <sub>2</sub> ]	Improved West and Gaeke	IS:5182 Part -02	4 µg/m <sup>3</sup>
Oxides of Nitrogen [NO <sub>x</sub> ]	Modified Jacob and Hochheiser	IS:5182 Part -06	6 µg/m <sup>3</sup>
Carbon Monoxide [CO]	CO Meter	CTH/CH/SOP/473	0.2 ppm

Verified By



Henry Michel  
Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

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

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Report No : CTH/LR/23/10/1496

Issue Date : October 27, 2023

### 2.a. Details of Locations

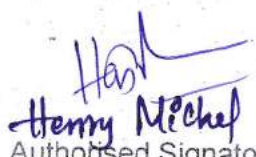
Location Code	Name of Location	Classification	GPS Coordinates	Environmental Conditions	Date of Monitoring
A 1	M R S	Project Area	Lat 11.930276° ; Long 75.572609°	Sunny Day	17.10.2023 — 18.10.2023
A 2	Nagavalavu	Residential Area	Lat 11.918642° ; Long 75.555174°	Sunny Day	
A 3	Elampara	Residential Area	Lat 11.922988° ; Long 75.546664°	Sunny Day	
A 4	Near A T S	Project Area	Lat 11.91302° ; Long 75.544958°	Sunny Day	
A 5	East Fire Station	Project Area	Lat 11.918688° ; Long 75.555256°	Sunny Day	

Parameters	Unit	Intervals	Value Reported					NAAQ Standards	
			A 1	A 2	A 3	A 4	A 5	Eco Sensitive Areas	Other Area
Particulate Matter of Size less than 10µm[PM <sub>10</sub> ]	µg/m <sup>3</sup>	I	26.21	24.66	24.29	24.9	61.5	100	100
Particulate Matter of Size less than 2.5µm[PM <sub>2.5</sub> ]	µg/m <sup>3</sup>	I	11.86	12.88	13.98	12.7	17.96	60	60
Sulphur Dioxide [SO <sub>2</sub> ]	µg/m <sup>3</sup>	I	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	80	80
		II	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]		
		III	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]		
Oxides of Nitrogen [NO <sub>x</sub> ]	µg/m <sup>3</sup>	I	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	80	80
		II	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]		
		III	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]		
Carbon Monoxide [CO]	mg/m <sup>3</sup>	I	0.44	0.45	0.43	0.44	0.42	4	4
		II	0.46	0.44	0.41	0.40	0.46		
		III	0.45	0.45	0.45	0.42	0.43		

BDL- Below Detection Limit; MDL-Minimum Detection Limit.

Verified By 



  
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Chemical  
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Issue Date : October 27, 2023

Report No : CTH/LR/23/10/1496

### 2.a. Details of Locations

Location Code	Name of Location	Classification	GPS Coordinates	Environmental Conditions	Date of Monitoring
A 1	M R S	Project Area	Lat 11.930276 <sup>0</sup> ; Long 75.572609 <sup>0</sup>	Sunny Day	18.10.2023 - 19.10.2023
A 2	Nagavalavu	Residential Area	Lat 11.918642 <sup>0</sup> ; Long 75.555174 <sup>0</sup>	Sunny Day	
A 3	Elampara	Residential Area	Lat 11.922988 <sup>0</sup> ; Long 75.546664 <sup>0</sup>	Sunny Day	
A 4	Near A T S	Project Area	Lat 11.91302 <sup>0</sup> ; Long 75.544958 <sup>0</sup>	Sunny Day	
A 5	East Fire Station	Project Area	Lat 11.918688 <sup>0</sup> ; Long 75.555256 <sup>0</sup>	Sunny Day	

Parameters	Unit	Intervals	Value Reported					NAAQ Standards	
			A 1	A 2	A 3	A 4	A 5	Eco Sensitive Areas	Other Area
Particulate Matter of Size less than 10µm[PM <sub>10</sub> ]	µg/m <sup>3</sup>	I	38.0	52.2	32.39	27.18	60.08	100	100
Particulate Matter of Size less than 2.5µm[PM <sub>2.5</sub> ]	µg/m <sup>3</sup>	I	13.6	16.4	13.1	14.2	16.0	60	60
Sulphur Dioxide [SO <sub>2</sub> ]	µg/m <sup>3</sup>	I	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	80	80
		II	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]		
		III	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]	BDL[M DL-4.0]		
Oxides of Nitrogen [NO <sub>x</sub> ]	µg/m <sup>3</sup>	I	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	80	80
		II	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]		
		III	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]	BDL[M DL-6.0]		
Carbon Monoxide [CO]	mg/m <sup>3</sup>	I	0.41	0.42	0.41	0.45	0.39	4	4
		II	0.39	0.39	0.39	0.42	0.38		
		III	0.40	0.43	0.40	0.40	0.40		

BDL- Below Detection Limit; MDL-Minimum Detection Limit.

End of report

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## Annexure III

### Noise level Monitoring Test Report





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E-mail: cochintesthouse1@gmail.com, info@cochintesthouse.in. Web : www.cochintesthouse.in



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## NOISE LEVEL MONITORING REPORT

Page 1 of 1

Report No : CTH/LR/23/10/1491

Issue Date : October 27, 2023

Unique Lab Report Number	TC772023000001491F
Name & Address of the customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702
Sampled By	Cochin Test House
Method of Measurement	CTH/CH/SOP/468
Sample Code	23/10/1491
Source of monitoring	Ambient Noise Level Monitoring
Dates of Monitoring	17.10.2023 – 18.10.2023

### Details of Monitoring Location

Location Code	Name of Location	Classification	GPS Coordinates
N 1	M R S	Project Area	Lat 11.930276 <sup>0</sup> ; Long 75.572609 <sup>0</sup>
N 3	Elampara	Residential Area	Lat 11.922988 <sup>0</sup> ; Long 75.546664 <sup>0</sup>
N 5	East Fire Station	Project Area	Lat 11.918688 <sup>0</sup> ; Long 75.555256 <sup>0</sup>


### Presentation of Result

Sl. No.	Day – Night Average Noise Level [DNL]	Noise level Values Reported in dB(A)		
		N 1	N 3	N 5
1	Total Day – Night Average Noise Levels [TDNL]	52.1	56.8	65.1
2	Event Day – Night Average Noise Levels [EDNL]	61.7	63.0	67.1
3	Background Day – Night Average Noise Levels [BDNL]	49.3	56.2	64.4

End of report

  
Verified By



  
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## NOISE LEVEL MONITORING REPORT

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Report No : CTH/LR/23/10/1495

Issue Date : October 27, 2023

Unique Lab Report Number	TC772023000001495F
Name & Address of the customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702
Sampled By	Cochin Test House
Method of Measurement	CTH/CH/SOP/468
Sample Code	23/10/1495
Source of monitoring	Ambient Noise Level Monitoring
Dates of Monitoring	18.10.2023 – 19.10.2023

### Details of Monitoring Location

Location Code	Name of Location	Classification	GPS Coordinates
N 2	Nagavalavu	Residential Area	Lat 11.918642° ; Long 75.555174°
N 4	Near A T S	Project Area	Lat 11.91302° ; Long 75.544958°

### Presentation of Result

Sl. No.	Day – Night Average Noise Level [DNL]	Noise level Values Reported in dB(A)	
		N 2	N 4
1	Total Day – Night Average Noise Levels [TDNL]	54.2	53.3
2	Event Day – Night Average Noise Levels [EDNL]	64.9	65.8
3	Background Day – Night Average Noise Levels [BDNL]	53.0	52.4

End of report



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## Annexure IV

### Surface Water and Ground water quality Monitoring Test Report



# COCHIN TEST HOUSE

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

E-mail: cochintesthouse1@gmail.com, info@cochintesthouse.in. Web : www.cochintesthouse.in



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## TEST REPORT

Page 1 of 1

Report No : CTH/LR/23/10/1492

Issue Date: October 28, 2023

Unique Lab Report Number	TC772023000001492F		
Name and Address of customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702		
Sample Drawn By	Cochin Test House	Condition of the Sample	Acceptable
Sampling Method	IS : 17614 [Pt.01] & CTH/MB/SOP/702		
Particulars of the sample	Surface Water Sample	Date of Sampling	19.10.2023
Location of Sampling	Kotheri Thodu	Sample Quantity	2 Litre
Sample code	23/10/1492	Date of receipt of sample	20.10.2023
Dates of Analysis	20.10.2023 - 28.10.2023	GPS Coordinates	Lat 11.928696° ; Long 75.553689°
Description of the sample by the customer	Kotheri Thodu Water		

Sl. No.	Parameters	Unit	Method	Result
1	Turbidity	NTU	IS : 3025 [Pt.10]	6.9
2	pH@25°C	---	IS : 3025 [Pt.11]	5.81
3	Chloride as Cl	mg/l	IS : 3025 [Pt.32]	10.13
4	Fluoride as F	mg/l	APHA 24 <sup>th</sup> Ed. 4500 F <sup>-</sup> D	BDL[MDL - 0.1]
5	Sulphate as SO <sub>4</sub>	mg/l	APHA 24 <sup>th</sup> Ed. 4500 SO <sub>4</sub> <sup>2-</sup> E	1.65
6	Alkalinity as CaCO <sub>3</sub>	mg/l	IS : 3025 [Pt.23]	11.07
7	Nitrate as NO <sub>3</sub>	mg/l	IS : 3025 [Pt.34]	BDL[MDL - 0.1]
8	Sodium as Na	mg/l	IS : 3025 [Pt.45]	5
9	Potassium as K	mg/l	IS : 3025 [Pt.45]	1.2
10	Mercury as Hg	mg/l	CTH/CH/SOP/416	BDL[MDL - 0.001]
11	Arsenic As	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.005]
12	Lead as Pb	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
13	Copper as Cu	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.01]
14	Chromium as Cr	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
15	Zinc as Zn	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
16	Selenium as Se	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.001]
17	Nickel as Ni	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
18	Cadmium as Cd	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.001]
19	Manganese as Mn	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
20	BOD	mg/l	IS : 3025 [Pt.44]	BDL[MDL - 2.0]
21	COD	mg/l	IS : 3025 [Pt.58]	BDL[MDL - 5.0]
22	Magnesium Hardness	mg/l	IS : 3025 [Pt.46]	BDL[MDL - 1.0]
23	Dissolved Oxygen [DO]	mg/l	IS : 3025 [Pt.38]	7.4
24	Salinity	mg/l	CTH/CH/SOP/522	16.7
25	Temperature	°C	IS : 3025 [Pt.09]	26.5

### Microbiology Parameters

Sl. No.	Parameters	Unit	Method	Result
1	Coliforms	MPN/100 ml	IS : 1622 - 1981	280
2	Faecal Coliforms	MPN/100 ml	IS : 1622 - 1981	27

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

End of report.

Verified By

Authorised Signatory  
Microbiology  
COCHIN TEST HOUSE



Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

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V / 78, Kollanpady, Murungeliparambu Road, Irumpanam P.O., Kochi - 682 309

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

E-mail: cochintesthouse1@gmail.com, info@cochintesthouse.in. Web : www.cochintesthouse.in

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## TEST REPORT

Page 1 of 1

Issue Date: October 28, 2023

Report No : CTH/LR/23/10/1492

Name and Address of customer		M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670792	
Sample Drawn By	Cochin Test House	Condition of the Sample	Acceptable
Sampling Method		IS : 17614 [Pt.01] & CTH/MB/SOP/702	
Particulars of the sample	Surface Water Sample	Date of Sampling	19.10.2023
Location of Sampling	Kotheri Thodu	Sample Quantity	2 Litre
Sample code	23/10/1492	Date of receipt of sample	20.10.2023
Dates of Analysis	20.10.2023 - 28.10.2023	GPS Coordinates	Lat 11.928696° ; Long 75.553689°
Description of the sample by the customer		Kotheri Thodu Water	

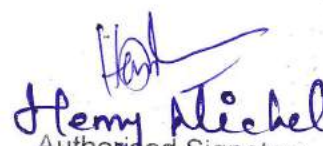
Sl.No.	Parameters	Unit	Method	Result
1	Total Nitrogen	mg/l	IS : 3025 [Pt.34]	BDL[MDL-1.0]
2	Total Phosphorous	mg/l	APHA 24 <sup>th</sup> Ed. 4500 - P[C]	BDL[MDL-0.2]

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

End of report.

  
Verified By



  
Henry Michel  
Authorized Signatory  
Chemical  
COCHIN TEST HOUSE

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V / 78, Kollanpady, Murungeliparambu Road, Irumpanam P.O., Kochi - 682 309

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

E-mail: cochintesthouse1@gmail.com, info@cochintesthouse.in. Web : www.cochintesthouse.in



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## TEST REPORT

Page 1 of 1

Issue Date: October 28, 2023

Report No : CTH/LR/23/10/1493

Unique Lab Report Number	TC772023000001493F		
Name and Address of customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702		
Sample Drawn By	Cochin Test House	Condition of the Sample	Acceptable
Sampling Method	IS : 17614 [Pt.01] & CTH/MB/SOP/702		
Particulars of the sample	Surface Water Sample	Date of Sampling	19.10.2023
Location of Sampling	Kanad Thodu	Sample Quantity	2 Litre
Sample code	23/10/1493	Date of receipt of sample	20.10.2023
Dates of Analysis	20.10.2023 - 28.10.2023	GPS Coordinates	Lat 11.909642° ; Long 75.524928°
Description of the sample by the customer	Kanad Thodu Water		

Sl. No.	Parameters	Unit	Method	Result
1	Turbidity	NTU	IS : 3025 [Pt.10]	8.8
2	pH@25°C	---	IS : 3025 [Pt.11]	6.18
3	Chloride as Cl	mg/l	IS : 3025 [Pt.32]	10.64
4	Fluoride as F	mg/l	APHA 24 <sup>th</sup> Ed. 4500 F <sup>-</sup> D	BDL[MDL - 0.1]
5	Sulphate as SO <sub>4</sub>	mg/l	APHA 24 <sup>th</sup> Ed. 4500 SO <sub>4</sub> <sup>2-</sup> E	1.40
6	Alkalinity as CaCO <sub>3</sub>	mg/l	IS : 3025 [Pt.23]	12.3
7	Nitrate as NO <sub>3</sub>	mg/l	IS : 3025 [Pt.34]	BDL[MDL - 0.1]
8	Sodium as Na	mg/l	IS : 3025 [Pt.45]	5.3
9	Potassium as K	mg/l	IS : 3025 [Pt.45]	1.3
10	Mercury as Hg	mg/l	CTH/CH/SOP/416	BDL[MDL - 0.001]
11	Arsenic As	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.005]
12	Lead as Pb	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
13	Copper as Cu	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.01]
14	Chromium as Cr	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
15	Zinc as Zn	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
16	Selenium as Se	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.001]
17	Nickel as Ni	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
18	Cadmium as Cd	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.001]
19	Manganese as Mn	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
20	BOD	mg/l	IS : 3025 [Pt.44]	BDL[MDL - 2.0]
21	COD	mg/l	IS : 3025 [Pt.58]	BDL[MDL - 5.0]
22	Magnesium Hardness	mg/l	IS : 3025 [Pt.46]	BDL[MDL - 1.0]
23	Dissolved Oxygen [DO]	mg/l	IS : 3025 [Pt.38]	7.5
24	Salinity	mg/l	CTH/CH/SOP/522	17.54
25	Temperature	°C	IS : 3025 [Pt.09]	26.8

### Microbiology Parameters

Sl. No.	Parameters	Unit	Method	Result
1	Coliforms	MPN/100 ml	IS : 1622 - 1981	1600
2	Faecal Coliforms	MPN/100 ml	IS : 1622 - 1981	34

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

End of report.

Verified By

Authorised Signatory  
Microbiology  
COCHIN TEST HOUSE



Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

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

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## TEST REPORT

Page 1 of 1

Issue Date: October 28, 2023


Report No : CTH/LR/23/10/1493

Name and Address of customer		M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702	
Sample Drawn By	Cochin Test House	Condition of the Sample	Acceptable
Sampling Method		IS : 17614 [Pt.01] & CTH/MB/SOP/702	
Particulars of the sample	<b>Surface Water Sample</b>	Date of Sampling	19.10.2023
Location of Sampling	Kanad Thodu	Sample Quantity	2 Litre
Sample code	23/10/1493	Date of receipt of sample	20.10.2023
Dates of Analysis	20.10.2023 – 28.10.2023	GPS Coordinates	Lat 11.909642° ; Long 75.524928°
Description of the sample by the customer		<b>Kanad Thodu Water</b>	

Sl.No.	Parameters	Unit	Method	Result
1	Total Nitrogen	mg/l	IS : 3025 [Pt.34]	BDL[MDL-1.0]
2	Total Phosphorous	mg/l	APHA 24 <sup>th</sup> Ed. 4500 – P[C]	BDL[MDL-0.2]

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

End of report.

  
Verified By



  
Authorized Signatory  
Chemical  
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## TEST REPORT

Page 1 of 1

Report No : CTH/LR/23/10/1494

Issue Date: October 28, 2023

Unique Lab Report Number	TC772023000001494F		
Name and Address of customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702		
Sample Drawn By	Cochin Test House	Condition of the Sample	Acceptable
Sampling Method	IS : 17614 [Pt.01] & CTH/MB/SOP/702		
Particulars of the sample	Ground Water Sample	Date of Sampling	19.10.2023
Location of Sampling	Bore Well	Sample Quantity	2 Litre
Sample code	23/10/1494	Date of receipt of sample	20.10.2023
Dates of Analysis	20.10.2023 - 28.10.2023	GPS Coordinates	Lat 11.91419°; Long 75.550104°
Description of the sample by the customer	Bore Well Water		

Sl. No.	Parameters	Unit	Method	Result
1	Turbidity	NTU	IS : 3025 [Pt.10]	BDL[MDL - 0.8]
2	pH@25°C	---	IS : 3025 [Pt.11]	5.0
3	Chloride as Cl	mg/l	IS : 3025 [Pt.32]	11.15
4	Fluoride as F	mg/l	APHA 24 <sup>th</sup> Ed. 4500 F <sup>-</sup> D	BDL[MDL - 0.1]
5	Sulphate as SO <sub>4</sub>	mg/l	APHA 24 <sup>th</sup> Ed. 4500 SO <sub>4</sub> <sup>2-</sup> E	1.02
6	Alkalinity as CaCO <sub>3</sub>	mg/l	IS : 3025 [Pt.23]	9.84
7	Nitrate as NO <sub>3</sub>	mg/l	IS : 3025 [Pt.34]	BDL[MDL - 0.1]
8	Sodium as Na	mg/l	IS : 3025 [Pt.45]	3.5
9	Potassium as K	mg/l	IS : 3025 [Pt.45]	1.2
10	Mercury as Hg	mg/l	CTH/CH/SOP/416	BDL[MDL - 0.001]
11	Arsenic As	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.005]
12	Lead as Pb	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
13	Copper as Cu	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.01]
14	Chromium as Cr	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
15	Zinc as Zn	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
16	Selenium as Se	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.001]
17	Nickel as Ni	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
18	Cadmium as Cd	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.001]
19	Manganese as Mn	mg/l	IS : 3025 [Pt.02]	BDL[MDL - 0.010]
20	BOD	mg/l	IS : 3025 [Pt.44]	BDL[MDL - 2.0]
21	COD	mg/l	IS : 3025 [Pt.58]	BDL[MDL - 5.0]
22	Magnesium Hardness	mg/l	IS : 3025 [Pt.46]	BDL[MDL - 1.0]
23	Dissolved Oxygen [DO]	mg/l	IS : 3025 [Pt.38]	7.2
24	Salinity	mg/l	CTH/CH/SOP/522	18.38
25	Temperature	°C	IS : 3025 [Pt.09]	26.6

### Microbiology Parameters

Sl. No.	Parameters	Unit	Method	Result
1	Coliforms	MPN/100 ml	IS : 1622 - 1981	<2
2	Faecal Coliforms	MPN/100 ml	IS : 1622 - 1981	<2

BDL - Below Detection Limit, MDL - Minimum Detection Limit. <2 indicate to absent.

End of report.

Verified By

Authorised Signatory  
Microbiology  
COCHIN TEST HOUSE



Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

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V / 78, Kollanpady, Murungeliparambu Road, Irumpanam P.O., Kochi - 682 309

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## TEST REPORT

Page 1 of 1

Issue Date: October 28, 2023

Report No : CTH/LR/23/10/1494

Name and Address of customer		M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702	
Sample Drawn By	Cochin Test House	Condition of the Sample	Acceptable
Sampling Method		IS : 17614 [Pt.01] & CTH/MB/SOP/702	
Particulars of the sample	<b>Ground Water Sample</b>	Date of Sampling	19.10.2023
Location of Sampling	Bore Well	Sample Quantity	2 Litre
Sample code	23/10/1494	Date of receipt of sample	20.10.2023
Dates of Analysis	20.10.2023 – 28.10.2023	GPS Coordinates	Lat 11.91419° ; Long 75.550104°
Description of the sample by the customer		<b>Bore Well Water</b>	


Sl.No.	Parameters	Unit	Method	Result
1	Total Nitrogen	mg/l	IS : 3025 [Pt.34]	BDL [MDL-1.0]
2	Total Phosphorous	mg/l	APHA 24 <sup>th</sup> Ed. 4500 – P[C]	BDL [MDL-0.2]

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

End of report.

  
Verified By



  
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Chemical  
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Annexure V

DG Stack Emission Monitoring Test Report





# COCHIN TEST HOUSE

ANALYTICAL SERVICES & TESTING LABORATORY

V / 78, Kollanpady, Murungeliparambu Road, Irumpanam P.O., Kochi - 682 309

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

E-mail: cochintesthouse1@gmail.com, info@cochintesthouse.in. Web : www.cochintesthouse.in



TC - 7720

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## STACK EMISSION MONITORING REPORT

Report No. : CTH/LR/23/10/1490

Page 1 of 1  
Issue Date: October 28, 2023

Unique Lab Report Number	TC772023000001490F
Name and Address of customer	M/s. Kannur International Airport Limited [KIAL], Mattannur, Kannur, Kerala - 670702
Monitored By	Cochin Test House
Lab Identification No.	23/10/1490
Identification of Sample	Stack Emission from DG's
Monitoring Date	18.10.2023
Date of Analysis	20.10.2023 - 27.10.2023

Sl. No.	Stack Name	GPS Coordinates
1	250 KVA - 1	Lat 11.930276 <sup>0</sup> ; Long 75.572609 <sup>0</sup>
2	250 KVA - 2	Lat 11.918642 <sup>0</sup> ; Long 75.555174 <sup>0</sup>
3	1250 KVA	Lat 11.922988 <sup>0</sup> ; Long 75.546664 <sup>0</sup>
4	2000 KVA - 1	Lat 11.91302 <sup>0</sup> ; Long 75.544958 <sup>0</sup>
5	2000 KVA - 2	Lat 11.918688 <sup>0</sup> ; Long 75.555256 <sup>0</sup>

Sl. No.	Parameters	Unit	Method	Result				
				250 KVA - 1	250 KVA - 2	1250 KVA	2000 KVA - 1	2000 KVA - 2
1	Temperature	<sup>0</sup> C	IS : 11255 [Pt.03]	124	118	118	121	112
2	Velocity of Emission	m/S	IS : 11255 [Pt.03]	24.8	24.86	14.36	20.31	20.31
3	Volume of Emission	Nm <sup>3</sup> /hr	IS : 11255 [Pt.03]	432	402	2089	2955	2955
4	Particulate Matter	mg/Nm <sup>3</sup>	IS : 11255 [Pt.01]	89.1	35.2	43.7	48.0	48.7
5	Sulphur Dioxide [SO <sub>2</sub> ]	mg/Nm <sup>3</sup>	IS : 11255 [Pt.02]	BDL [MDL-1.0]	BDL [MDL-1.0]	BDL [MDL-1.0]	BDL [MDL-1.0]	BDL [MDL-1.0]
6	Nitrogen Dioxide [NO <sub>x</sub> ]	mg/Nm <sup>3</sup>	IS : 11255 [Pt.07]	36.2	34.3	26.7	34.2	36.0

BDL- Below Detection Limit; MDL-Minimum Detection Limit.

End of report

Verified By



Henry Michel  
Authorised Signatory  
Chemical  
COCHIN TEST HOUSE

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## TEST REPORT

Page 1 of 1

Report No : CTH/LR/23/10/1492 A

Name and Address of customer

Issue Date: October 25, 2023

M/s. Kannur International Airport  
Limited [KIAL], Mattannur,  
Kannur, Kerala - 670702

Sample Drawn By

Condition of the Sample

Particulars of the sample

Date of Sampling

Sampling Method

Sample Quantity

Sample code

Date of receipt of sample

Dates of Analysis

Cochin Test House

Acceptable

Water Sample

19.10.2023

APHA

250 ml Each

23/10/1492, 23/10/1493, 23/10/1494

19.10.2023

20.10.2023 - 21.10.2023

### Phytoplankton Analysis

Sl. No.	GPS Coordinates	Particulars of the Sample	Description of the Sample	Sample ID	Method	Result
1	Lat 11.928696 <sup>0</sup> ; Long 75.553689 <sup>0</sup>	Surface Water	Water from Kotheri Thodu	23/10/1492	APHA 24 <sup>th</sup> Ed.	Euglena, Cyclotella, Gomphosphaeria, Botryococcus
2	Lat 11.909642 <sup>0</sup> ; Long 75.524928 <sup>0</sup>	Surface Water	Water from Kanad Thodu	23/10/1493		Gomphosphaeria, Botryococcus, Achnanthidium, Cylindrospermopsis
3	Lat 11.91419 <sup>0</sup> ; Long 75.550104 <sup>0</sup>	Ground Water	Water from Bore Well	23/10/1494		Cylindrospermopsis, Oocysts, Ankistrodesmus

End of Report

Verified By



Authorised Signatory  
Microbiology  
COCHIN TEST HOUSE

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## Annexure VI - Photos

## NOISE LEVEL MONITORING



**Nagavalavu**



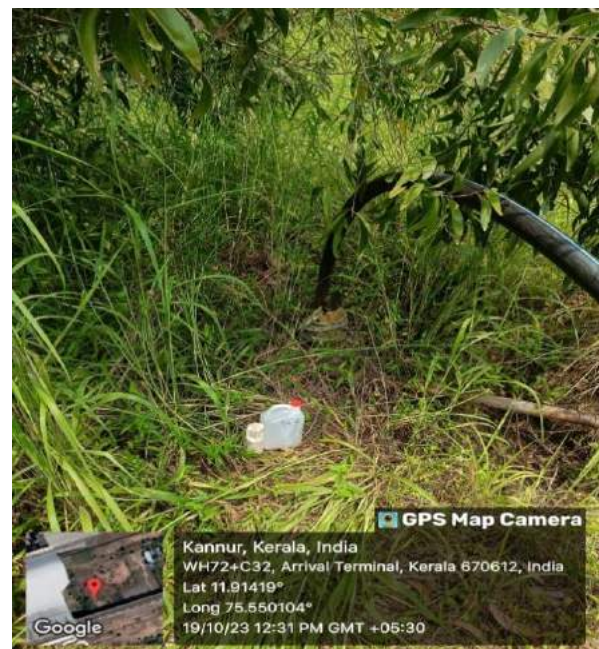
**Elambara**

## AMBIENT AIR QUALITY MONITORING



**Nagavalavu**

## GROUND WATER MONITORING



**PTB future expansion area**



## **GREENERY AROUND AIRPORT**



**Jeepable road**



**Outside operational boundary wall near Elambara**

## **SEWAGE TREATMENT PLANT**

