



Ref: AEL/KCL/EMD/EC/MoEFCC/301/24

Date 23.05.2024

To,

Additional Principal Chief Conservator of Forest (APCCF)

Ministry of Environment, Forest, and Climate Change

Integrated Regional Office,

Aranya Bhavan, Fourth Floor, Room No 407

Sector 10A, Gandhinagar, Gujarat 382010

Sub: Six Monthly Compliance Status report on Environment Clearance for Greenfield Copper Refinery Plant (1.0 MTPA) project of Kutch Copper Limited located at Adani Ports and Special Economic Zone land in village(s) Siracha and Navinal, Taluka Mundra, District Kutch, Gujarat.

Ref: EC Letter No. J-11011/113/2016-IA.II(I) dated- 08.05.2020 and subsequent EC transfer letter dated 03.08.2021.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) Compliance Status Report along with environmental monitoring reports for the period of **October'2023 to March'2024** in soft (e-mail).

This is for your kind information & record please.

Thanking You.

Yours faithfully,

for **Kutch Copper Limited**

(R N Shukla)

Authorized Signatory

Encl: as above

The Member Secretary
Central Pollution Control Board
Parivesh Bhavan, East Arjun Nagar
Kendriya Paryavaran Bhawan
New Delhi- 110032

The Regional Officer
Gujarat Pollution Control Board
Gandhidham, Kutch, Gujarat

The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhawan, Sector- 10 A
Gandhinagar- 382010

Kutch Copper Limited
Adani Corporate House,
Shantigram, Nr. Vaishno Devi Circle
S. G. Highway, Khodiyar,
Ahmedabad - 382421
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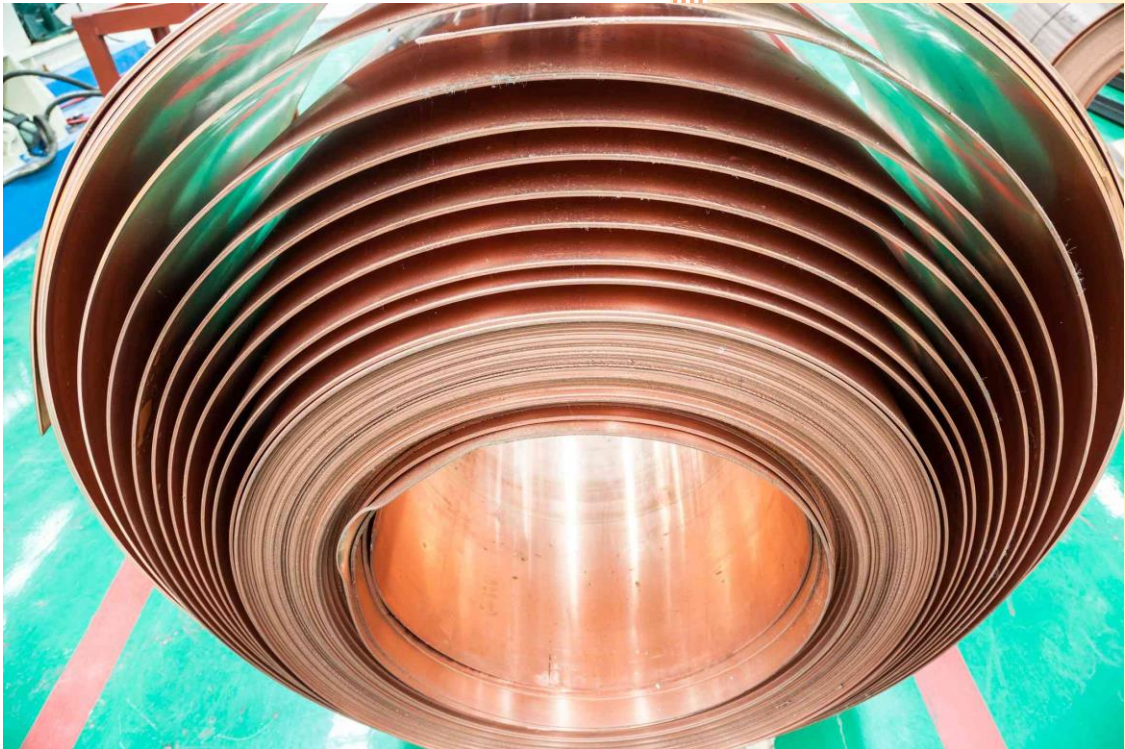
Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad – 382 421



For Period:

October'2023 to
March'2024

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (EC)



Submitted to:

Integrated Regional Office, Gandhinagar
Ministry of Environment, Forest & Climate Change
Central Pollution Control Board, New Delhi &
Gujarat Pollution Control Board, Gandhinagar and
Regional Office

Submitted by:

ENVIRONMENT MANAGEMENT DEPARTMENT

Kutch Copper Limited

ADANI CORPORATE HOUSE, SHANTIGRAM,
SG HIGHWAY AHMEDABAD- 382 421
GUJARAT, INDIA

For

1.0 MTPA
(One Million Tons per Annum)
**Greenfield Copper
Refinery Project**

At

Notified APSEZ, Mundra
Taluka, District Kutch,
Gujarat

Kutch Copper Limited

1.0 MTPA (One Million Tons Per Annum) Greenfield Copper Refinery Project

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Kutch Copper Limited

1.0 MTPA (One Million Tons Per Annum) Greenfield Copper Refinery Project

Introduction

Kutch Copper Limited (KCL) has set up a Greenfield Copper Refinery Project of One Million Tons Per Annum (1.0 MTPA) capacity. The project site is located in Siracha and Navinal Villages at APSEZ Mundra taluka, Kutch district in the state of Gujarat.

Environment Clearance (EC) for 1.0 Million Tonnes per Annum Greenfield Copper Refinery Project was granted vide letter dated 08.05.2020 and its subsequent amendment dated 23.06.2021.

EC transfer letter from from Adani Enterprises Ltd. to Kutch Copper Limited was received vide letter No.F. No. J-11011/113/2016-IA. II(I), dt; 03.08.2021.

CTE granted vide CTE no 49273 dated 19.09.2021 followed by CTO /CCA vide consent order no. AWH – 132498 dated 20.02.2024 by GPCB.

Kutch Copper Limited has engaged NABL accredited Laboratory for sampling, monitoring and analysis of Environmental parameters.

There is an Appeal in National Green Tribunal against the project vide Appeal No. 35/2020 (WZ). The matter is listed for final hearing on 1st July 2024.

Point wise compliance status of Environment Clearance is furnished herewith.

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Compliance Status of Environment Clearance

F. No. J-11011/113/2016-IA. II(I), dated: 08.05.2020, 23.06.2021 & 03.08.2021

Sl. No.	Conditions of EC	Compliance Status
I	Statutory Compliance	
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non- forest purpose involved in the project.	As per the EC and subsequent amendments granted there is no forest land involved in the project area.
(ii)	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six- monthly compliance report.	Site Specific Conservation Plan & Wildlife Management Plan had been prepared and submitted for approval of the Chief Wildlife Warden, Bhuj, Gujarat for further suggestion & implementation.
(iii)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the (Water Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Complied a. Consent to Establish has been obtained from GPCB vide CTE no. 49273 dated 19.09.2021 . b. Consent to Operate has been obtained vide consent order no. AWH-132498 dated 20.02.2024 valid up to 07.01.2029 . Copy of CTO/CCA enclosed as Annexure II
(iv)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water from the competent authority concerned in case of drawl of surface water required for the project.	No Ground water is proposed for the project.
(v)	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rule, 2016 as amended from time to time.	Complied Authorization under the Hazardous and other waste Management Rule, 2016 has been obtained vide consent order no. AWH-132498 dated 20.02.2024 valid up to 07.01.2029.
II	Air quality monitoring and preservation	
(i)	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in	Noted & Being Followed.

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Sl. No.	Conditions of EC	Compliance Status
	Environmental (Protection) Rules 1986 vide G.S.R 742 (E) dated 30 th August 1990 and thereafter amended vide G.S.R 46 (E) dated 3 rd February 2006 (Aluminium); S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
(ii)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Being Complied Ambient Air Quality Monitoring is being carried out on regular basis through NABL accredited lab. Monitoring report is enclosed as Annexure I
(iii)	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at an angle of 120° each), covering upwind and downwind directions.	Complied 4 nos. of Continuous Ambient Air Quality Monitoring System (CAAQMS) have been installed at periphery of the plant for Ambient air quality monitoring.
(iv)	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional office of MoEFCC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.	Being Complied Monitoring of ambient air quality is being carried out through NABL accredited lab. Monitoring report is appended as Annexure - I
(v)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Necessary consideration taken in design of FGD, TGD & other air pollution control system to comply MoEFCC norms. Water sprinkling is also being done on regular basis.
(vi)	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	Necessary consideration taken in design of bag filters.
(vii)	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	Pollution control system in the plant has been provided as per the CREP Guidelines of CPCB.

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Sl. No.	Conditions of EC	Compliance Status
(viii)	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Being Complied
(ix)	Ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	Being Complied Necessary design consideration has been taken to avoid the spillages. Major Raw material i.e copper concentrate shall be transported through covered pipeline conveyor system.
(x)	Adopt measures to recover fluoride gas from electrolytic cells and recycle the same in the process.	Not applicable as it has been deleted in the amended EC.
(xi)	Ventilation system shall be designed for adequate air changes as per ACGIB document for all tunnels, motor houses.	Ventilation system is designed for adequate air changes as per ACGIB document for all tunnels, motor houses.
III	Water quality monitoring and preservation	
(i)	The project proponent shall install 24X7 continuous effluent monitoring system with respect to standards prescribed in Environmental (Protection) Rules 1986 vide G.S.R 742 (E) dated 30 th August 1990 and further amended vide G.S.R 46 (E) dated 3 rd February 2006 (Aluminium); S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Being Followed
(ii)	The project proponent shall monitor regularly ground water quality at twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories	Being Complied. Monitoring of Ground water near to adjacent area of plant is being carried out on monthly basis through NABL accredited lab. The monitoring report is enclosed as Annexure I .
(iii)	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEFCC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Being Complied Ground water monitoring report is enclosed as Annexure I .

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Sl. No.	Conditions of EC	Compliance Status
(iv)	Adhere to 'Zero Liquid Discharge'	Being Complied The Plant is designed to operate with Zero Liquid Discharge (ZLD) system.
(v)	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Complied Sewage Treatment Plant (STP) has been installed for treatment of domestic wastewater.
(vi)	The project proponent shall practice rainwater harvesting to maximum possible extent.	Complied Rainwater harvesting pond has been developed to conserve water.
(vii)	The project proponent shall make efforts to minimise water consumption in the Copper plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Being Complied Treated water is being reutilized in process and plantation/greenbelt development.
IV	Noise monitoring and prevention	
(i)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Being Complied Noise monitoring is being carried through NABL accredited lab. Noise level monitoring report is enclosed as Annexure -I
(ii)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz 75 dB(A) during daytime and 70 dB(A) during night time.	Being Complied Noise monitoring is being carried out through NABL accredited lab. Noise level monitoring report is enclosed as Annexure -I
V	Energy Conservation measures	
(i)	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases.	Necessary design consideration has been taken to recover heat from the flue gases.
(ii)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly;	Being Complied. Solar based lighting provided in the plant area. However, we will also utilize solar power in our project.
(iii)	Provide LED lights in their offices and residential areas.	Complied. LED lights have been provided in the offices and residential areas.
VI	Waste management	
(i)	Used refractories shall be recycled as far as possible.	Compliance Assured. Used refractories shall be recycled as far as possible.
(ii)	A plan for 100% utilisation of phosphogypsum generated shall be implemented. Under the action plan, MOU with potential buyers including cement companies for supply of phosphogypsum.	Compliance Assured. Phosphoric Acid Plant is yet to establish.

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Sl. No.	Conditions of EC	Compliance Status
(iii)	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Being Complied The waste oil, grease and other hazardous waste will be disposed through authorised recyclers as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
(iv)	Kitchen waste shall be composted or converted to biogas for further use.	Complied. Kitchen waste is being converted to biogas.
VII	Green Belt	
(i)	Green belt shall be developed in an area equal to 35% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Being Complied Plantation is an integral part of green belt development and is being carried out within plant boundary. Total 12498 nos. of plants have been planted till March'2024. Our efforts are being made to develop more greenery in and around plant premises.
(ii)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for the reduction of the same including carbon sequestration including plantation.	Being Complied GHG emission inventory will be carried out and report with reduction program will be submitted once all the sections of the plant operate at full capacity. Plantation is being done for carbon sequestration.
VIII	Public hearing and Human health issues	
(i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Being complied. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan is being implemented on daily basis.
(ii)	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Being Complied Personal Protective Equipment (PPEs) has been provided as per the norms of Factory Act.
(iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructures and facilities such fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	There is no housing provided for construction labour within the site. However, facilities such as toilets, STP, drinking water, medical healthcare, etc. has been provided for all the construction labours at site.
(iv)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied. Occupational health surveillance of the workers is being done on a regular basis and records maintained as per the Factories Act.
IX	Corporate Environment Responsibility	

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Sl. No.	Conditions of EC	Compliance Status
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility	KCL has allocated Rs. 60.5 Crores on total project cost Rs. 11,000/- Crores for Corporate Environment Responsibility-CER budget, as per Ministry's OM vide F.No. 22-65/2017-IA.III dated 01 st May 2018.
(ii)	The company 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 of reporting infringements / deviation / violation of the environmental / forest/ wildlife norms / conditions and/or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEFCC as a part of six-monthly report.	Adani group has well laid Environmental, Health & Safety policy in place. We have established Environment Management Cell with Senior Management at Corporate level.
(iii)	A separate Environmental Cell 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 organisation.	Complied Environmental Cell established with qualified personnel with senior Executive, who reports directly to the head of the organisation.
(iv)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Copper Industry shall be implemented.	Being Complied. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Copper Industry are being implemented.
X	Miscellaneous	
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Advertisement regarding grant of EC has been published in Times of India dated 14 th May 2020 and Kutch Mitra (local News) dated 15 th May 2020. Copies of newspaper advertisement were sent with compliance report for period of April'2020 to September'2020 Environmental Clearance has also been displayed on company's website https://www.adanienterprises.com under download section.
(ii)	The copies of the environmental clearance shall be submitted by the project proponent to the Heads of local bodies, Panchayat and Municipal	Complied. Copies of Environment Clearance has been submitted to Village Panchayat office of

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Sl. No.	Conditions of EC	Compliance Status
	Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Tunda, Desalpar, Borana, Dhrab, Jarpara, Mota Bhadiya, Mota Bhujpur Juth, Mota Kandgra, Moti khakhar, Nana Bhadiya, Nani Khakhar, Navinal, Shiracha, Tragadi, Tunda, Vandh, Taluka: - Mundra, Mandvi District: - Kutch vide letter AEL/Copper/ EC/2020/ May-1 dated 11/05/2020. The EC Copies has also been submitted to following offices through post. i. The Mamlatdar Office, Mundra Kutch ii. Regional Office Kutch (East), GPCB, Gandhidham. iii. The Taluka Development Office, Mundra-Kutch iv. District Industries Centre, Bhuj-Kutch v. The District Collector, Bhuj-Kutch vi. The District Development Office, Bhuj-Kutch EC amendment & transfer letter has been uploaded on the company's website: https://www.adanienterprises.com
(iii)	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Being Complied. Half yearly EC Compliance status report being submitted to MoEF&CC, CPCB & GPCB. The same is being uploaded on company's website https://www.adanienterprises.com
(iv)	The project proponent shall monitor the criteria pollutant level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same as a convenient location for disclosure to the public and put on the website of the company.	Being Complied Ambient Air Quality is being done on regular basis to monitor the AAQ parameters. Monitoring report is enclosed as Annexure I
(v)	The project proponent shall submit six- monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being Complied. Six - Monthly EC Compliance status report is being submitted to MoEFCC, CPCB & GPCB.
(vi)	The project proponent shall submit environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Compliance Assured Environmental Statement (Form-V) for FY 2023-24 will be submitted to SPCB before 30.09.2024.

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Sl. No.	Conditions of EC	Compliance Status
(vii)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Financial closure is already achieved.
(viii)	The project authorities must strictly adhere to the stipulations made by the State Pollution control Board and the State Government.	Noted & agreed.
(ix)	The project proponent shall abide by the commitment and recommendations made in the EIA/ EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Being Complied
(x)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF & CC)	Noted & agreed.
(xi)	Concealing factual data or submission of false/ fabricated data may result in revocation of the environmental clearance and attract action under the provisions of Environmental (Protection) Act, 1986.	Noted.
(xii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted.
(xiii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
(xiv)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted. Full co-operation is extended to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.
(xv)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environmental Protection Act 1986, Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendment and Rules and any other	Noted.

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Sl. No.	Conditions of EC	Compliance Status
	orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
(xvi)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2020.	Noted. There is an Appeal filed in Hon'ble National Green Tribunal stating that due process has not been followed in granting EC. The appellant has filed I.A.No.182/2022(WZ)to withdraw the appeal after having gone through the responses filed by the respondents especially the respondent No. 3/MoEFCC by affidavit dated 11 th Dec 2020 and an additional affidavit dated 9 th Nov, 2021 as mentioned in the hearing dated 05.12.2022. The matter is listed for final hearing on 1 st July, 2024.
Additional Specific Conditions as per Amendment in EC dated 23/06/2021		
Sl. No.	Condition of EC	Compliance Status
i	Project proponent shall abide by the all orders and judicial pronouncements , made from time to time passed by Hon'ble National Green Tribunal, Western Zone in Original Appeal No. 35/2020 (WZ).	Noted. There is an Appeal filed in Hon'ble National Green Tribunal stating that due process has not been followed in granting EC. The appellant has filed I.A.No.182/2022(WZ)to withdraw the appeal after having gone through the responses filed by the respondents especially the respondent No. 3/MoEF&CC by affidavit dated 11 th Dec 2020 and an additional affidavit dated 9 th Nov, 2021 as mentioned in the hearing dated 05.12.2022. The matter is listed for final hearing on 1 st July, 2024.
ii	Particulate matter emission from all the stacks shall not exceed 30 mg/Nm ³	Particulate matter emission from all the stacks shall be within prescribed limit of 30 mg/Nm ³ .
iii	The Mangrove and Mudflat conservation plan submitted to Deputy Conservator of Forests, Gujarat Forest Department shall be implemented in a time bound manner and periodic compliance status in this regard shall be submitted to Regional Office of the MoEF & CC along with the six monthly compliance report.	Complied Site Specific Mangrove and Mudflat Conservation Plan & Wildlife Management Plan had been prepared and submitted for approval of the Chief Wildlife Warden, Bhuj, Gujarat for further suggestion & implementation.
iv	Sulphur and Flourine emission pollution shall not exceed 3641 TPA for sulphur and 33 TPA for	Sulphur & Flourine emission will be within said prescribed limit.

Report Issued to:

Kutch Copper Limited

**At & PO: Mundra, Kutch 370421
Gujarat.**

**ENVIRONMENTAL MONTHLY MONITORING REPORT
MONTH OF OCT'23**



Go Green Mechanisms Pvt. Ltd.



Contact: 7069072008/10

Email: lab@gogreenmechanisms.com

Ref: GGMPL2023/OT105C dated 17.11.2023

To,
Kutch Copper Limited
At & Po: Mundra, Kutch 370421 Gujarat

Subject: Submission of Monthly Report for the Kutch Copper Limited

Respected Sir,

This is to inform you that we hereby are submitting the Monitoring Report for the Month of October 2023.

Below given is the Sample Quantity along with Sample type for your reference.

Sr. No.	Description	Total Number of Reports/Samples
1.	Ambient Air Reports	36
3.	Ambient Noise Reports	06
4.	Ground Water Reports	03
5.	Surface Water Report	01

Thanks and Regards



For Go Green Mechanisms Pvt Ltd



**Ground
/Surface
Water Report**



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 06.11.2023

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited							
Sample Type		Water							
Sample Quantity		3.5 L							
Date of Sampling		12.10.2023							
Analysis Period		13.10.2023 - 19.10.2023							
Sl. No.	Parameter	Unit	Location				Test Method	IS 10500:2012	
			Shiracha Village (GW)	MotiBhujpar Village (GW)	Near Plant gate (GW)	Zarpara Village (SW)		AL	PL
1.	pH@25 °C	-	8.05	6.74	6.19	7.36	IS 3025-Part11	6.5-8.5	No relaxation
2.	Turbidity	NTU	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	1	5
3.	Total Dissolved Solids	mg/L	471.0	796.0	490.0	288.0	APHA23rd Edn(2540 C)	500	2000
4.	Total Hardness as CaCO ₃	mg/L	210.0	392.0	170.0	140.0	APHA23rd Edn(2340 C)	200	600
5.	Alkalinity as CaCO ₃	mg/L	120.00	284.00	148.00	105.00	APHA23rd Edn (2230B)	200	600
6.	Calcium as Ca	mg/L	44.89	79.36	42.48	28.06	APHA23rdEdn (3500Ca B)	75	200
7.	Chloride	mg/L	135.96	177.44	159.95	75.98	IS 3025-Part23	250	1000
8.	Sulphate	mg/L	61.71	120.18	44.15	36.95	APHA23rdEdn (4500SO ₄ E)	200	400
9.	Nitrate	mg/L	1.83	2.44	1.57	0.68	APHA23rdEdn (4500NO ₃ B)	45	No relaxation
10.	Iron	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA 23rdEdn (3120 B)	0.3	No relaxation
11.	Fluoride	mg/L	0.80	0.86	0.43	0.45	APHA 23rdEdn (4500 F D)	1	1.5
12.	Hexavalent Chromium as Cr ⁶⁺	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	APHA 23rdEdn (3500Cr B)	NS	NS

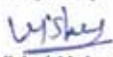


13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA 23rdEdn (3120 B)	5	15
14.	Magnesium (Mg)	mg/L	23.81	47.14	15.55	17.01	APHA23rdEdn (3500MgB)	30	100
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (4500 Cl B)	0.2	1.0
16.	Colour	CU	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	IS 3025- Part 4	5	15
17.	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 - Part 5	Agreeable	Agreeable
18.	Temperature	°C	26.5	25.6	26.0	26.9	APHA23rdEdn (2550B)	NS	NS
19.	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025-Part7,8	Agreeable	Agreeable
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	IS 3025- Part 43	0.001	0.002
21.	Cyanide	mg/L	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	GGMPL/SOP/W/ 13	0.05	No relaxation
22.	Aluminium (Al)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.03	0.2
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	0.05
24.	Boron (B)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.5	1.0
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.003	No relaxation
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.05	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.1	0.3
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	0.001	No relaxation
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation



31.	Anionic Surface Active Agents	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (5540 C)	0.2	1.0
32.	E.Coli	MPN/100ml	Absent	Absent	Absent	Absent	IS 1622	-	Absent
33.	Total Coliform	MPN/100ml	Absent	Absent	Absent	Absent	IS 1622	-	Absent

BQL - Below Quantification Limit

Analysis By

Vishal Makwana



Approved By

Pankil Patel

.....END.....

Ambient Air Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: -06.11.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Moti Bhujpar Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	rg/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	03.10.2023	04.10.2023	60.06	30.41	12.99	20.60	-	-	-	-	-	-	-
2.	06.10.2023	07.10.2023	62.82	28.33	13.29	23.02	-	-	-	-	-	-	-
3.	09.10.2023	10.10.2023	57.11	29.99	11.92	19.14	-	-	-	-	-	-	-



4.	12.10.2023	13.10.2023	64.44	33.33	13.33	21.81	-	-	-	-	-	-	-	-
5.	16.10.2023	17.10.2023	62.77	32.08	10.60	20.72	-	-	-	-	-	-	-	-
6.	19.10.2023	20.10.2023	61.67	30.83	12.30	20.60	-	-	-	-	-	-	-	-
7.	23.10.2023	24.10.2023	57.02	33.74	10.56	18.66	14.20	12.60	0.37	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	27.10.2023	28.10.2023	59.90	35.41	11.58	20.36	-	-	-	-	-	-	-	-
9.	30.10.2023	31.10.2023	61.29	33.80	13.97	17.45								
AVERAGE			60.79	31.99	12.28	20.26	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makvana



Approved By

Pankil
Pankil Patel

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 06.11.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Zarapara Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	03.10.2023	04.10.2023	59.06	30.41	11.28	19.06	-	-	-	-	-	-	-
2.	06.10.2023	07.10.2023	61.89	33.33	12.73	20.62	-	-	-	-	-	-	-
3.	09.10.2023	10.10.2023	60.20	30.83	10.97	19.52	-	-	-	-	-	-	-



4.	12.10.2023	13.10.2023	58.16	29.16	12.30	23.07	-	-	-	-	-	-	-	-
5.	16.10.2023	17.10.2023	59.41	32.91	10.22	18.33	-	-	-	-	-	-	-	-
6.	19.10.2023	20.10.2023	58.08	29.58	10.55	19.25	-	-	-	-	-	-	-	-
7.	23.10.2023	24.10.2023	60.30	26.66	12.00	19.80	14.20	12.60	0.36	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	27.10.2023	28.10.2023	59.77	29.58	11.58	18.33	-	-	-	-	-	-	-	-
9.	30.10.2023	31.10.2023	56.56	33.33	9.54	16.62	-	-	-	-	-	-	-	-
AVERAGE			59.27	30.64	11.24	19.40	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Pankil
Pankil Patel

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 06.11.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

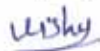
Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Shiracha Village												
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As	
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³	
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4	
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6	
	Sampling Start Date	Sampling End Date												
1.	03.10.2023	04.10.2023	62.73	30.41	9.94	21.54	-	-	-	-	-	-	-	
2.	06.10.2023	07.10.2023	56.70	26.66	11.57	19.36	-	-	-	-	-	-	-	
3.	09.10.2023	10.10.2023	58.24	29.58	10.80	18.81	-	-	-	-	-	-	-	



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4.	12.10.2023	13.10.2023	54.43	25.41	12.08	21.54	-	-	-	-	-	-	-	-
5.	16.10.2023	17.10.2023	56.43	27.08	12.30	16.63	-	-	-	-	-	-	-	-
6.	19.10.2023	20.10.2023	54.97	27.91	12.26	18.81	-	-	-	-	-	-	-	-
7.	23.10.2023	24.10.2023	63.33	30.08	13.12	16.08	13.89	12.60	0.31	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	27.10.2023	28.10.2023	62.67	28.33	11.57	18.26	-	-	-	-	-	-	-	-
9.	30.10.2023	31.10.2023	58.30	32.91	10.77	15.81	-	-	-	-	-	-	-	-
AVERAGE			58.65	28.71	11.60	18.54	-	-	-	-	-	-	-	-

Analysis By



Vishal Makwana



Approved By



Pankil Patel

.....END.....



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 06.11.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Near Gate No.2											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	03.10.2023	04.10.2023	63.53	31.24	13.74	20.77	-	-	-	-	-	-	-
2.	06.10.2023	07.10.2023	60.11	32.49	12.61	22.00	-	-	-	-	-	-	-
3.	09.10.2023	10.10.2023	61.77	30.83	11.17	21.45	-	-	-	-	-	-	-



4.	12.10.2023	13.10.2023	60.92	34.16	14.18	19.80	-	-	-	-	-	-	-	-
5.	16.10.2023	17.10.2023	64.17	33.33	13.22	20.90	-	-	-	-	-	-	-	-
6.	19.10.2023	20.10.2023	58.66	31.66	12.83	18.58	-	-	-	-	-	-	-	-
7.	23.10.2023	24.10.2023	63.80	30.41	13.79	23.37	15.43	16.81	0.39	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	27.10.2023	28.10.2023	61.66	32.91	14.14	24.20	-	-	-	-	-	-	-	-
9.	30.10.2023	31.10.2023	58.84	31.24	11.67	18.70								
AVERAGE			61.50	32.03	13.04	21.08	-	-	-	-	-	-	-	-

Analysis By


Vishal Makwana



Approved By


Pankil Patel

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END
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Ambient Noise Report

Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Moti Bhujpar Village			
Sampling Date		03.10.2023			
Sampling Instrument	Sound Level Meter	Ldn	47.3		
Lmax (Day)	52.7	Lmax (Night)	43.4		
Lmin (Day)	43.8	Lmin (Night)	40.7		
Leq (Day)	48.6	Leq (Night)	41.9		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	46.7	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	48.8	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	49.2	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	52.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	49.6	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	51.2	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	48.3	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	46.9	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	47.7	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	50.8	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	47.3	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	49.0	dB (A) Leq	IS 9989	75



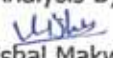
Reporting Date:-06.11.2023


AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Moti Bhujpar Village			
Sampling Date		03.10.2023			
Sampling Instrument	Sound Level Meter	Ldn	47.3		
Lmax (Day)	52.7	Lmax (Night)	43.4		
Lmin (Day)	43.8	Lmin (Night)	40.7		
Leq (Day)	48.6	Leq (Night)	41.9		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	46.0	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	45.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	43.8	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	44.9	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.1	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	42.6	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	40.8	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	42.0	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	41.5	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	41.1	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	40.7	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	43.4	dB (A) Leq	IS 9989	70

Analysis By

 Vishal Makwana

Approved By

 Pankil Patel

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring		
Location	Zarapara Village		
Sampling Date	06.10.2023		
Sampling Instrument	Sound Level Meter	Ldn	48.8
Lmax (Day)	55.3	Lmax (Night)	45.0
Lmin (Day)	43.9	Lmin (Night)	39.2
Leq (Day)	50.2	Leq (Night)	42.5

Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	48.9	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	50.3	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	47.2	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	53.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	50.6	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	51.4	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	48.2	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	46.0	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	49.4	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	47.6	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	53.2	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	55.3	dB (A) Leq	IS 9989	75



Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Zarapara Village			
Sampling Date		06.10.2023			
Sampling Instrument	Sound Level Meter	Ldn	48.8		
Lmax (Day)	55.3	Lmax (Night)	45.0		
Lmin (Day)	43.9	Lmin (Night)	39.2		
Leq (Day)	50.2	Leq (Night)	42.5		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	46.8	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	48.0	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	45.3	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	43.9	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.7	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	40.5	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	41.3	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	41.8	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.6	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	39.2	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	45.0	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	44.2	dB (A) Leq	IS 9989	70

Analysis By


Vishal Makwana

Approved By


Pankil Patel



.....END.....

Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Shiracha Village		
Sampling Date			09.10.2023		
Sampling Instrument		Sound Level Meter	Ldn	48.8	
Lmax (Day)		55.6	Lmax (Night)	45.0	
Lmin (Day)		42.6	Lmin (Night)	40.5	
Leq (Day)		50.2	Leq (Night)	42.4	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.0	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	45.3	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	49.3	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	53.8	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	50.6	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	51.2	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	47.5	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	46.2	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	49.0	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	55.6	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	53.8	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	51.1	dB (A) Leq	IS 9989	65



Reporting Date:- 06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Shiracha Village			
Sampling Date		09.10.2023			
Sampling Instrument	Sound Level Meter	Ldn	48.8		
Lmax (Day)	55.6	Lmax (Night)	45.0		
Lmin (Day)	42.6	Lmin (Night)	40.5		
Leq (Day)	50.2	Leq (Night)	42.4		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	46.4	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	44.4	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	44.9	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	42.6	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	43.8	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	40.7	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	41.2	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	45.0	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	41.3	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	40.5	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	42.6	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	41.7	dB (A) Leq	IS 9989	55

Analysis By

Vishal
Vishal Makwana

Approved By

P
Pankil Patel

END

Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Gate No.2		
Sampling Date			12.10.2023		
Sampling Instrument		Sound Level Meter		Ldn	50.1
Lmax (Day)		56.8		Lmax (Night)	47.4
Lmin (Day)		45.2		Lmin (Night)	40.8
Leq (Day)		51.4		Leq (Night)	44.6
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	49.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	54.0	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	56.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	52.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	50.5	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	48.4	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	46.2	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	47.8	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	50.3	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	48.0	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	53.2	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	54.7	dB (A) Leq	IS 9989	75





Go Green Mechanisms Pvt.Ltd.

Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr.Gate No.2			
Sampling Date		12.10.2023			
Sampling Instrument		Sound Level Meter		Ldn	51.8
Lmax (Day)		56.8		Lmax (Night)	47.4
Lmin (Day)		45.2		Lmin (Night)	40.8
Leq (Day)		51.4		Leq (Night)	44.6
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	48.6	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	45.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	45.9	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	50.7	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	47.4	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	44.3	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	44.8	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	42.9	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.6	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.8	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	44.9	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	46.0	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana

Approved By
Pankil
Pankil Patel



Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Main Gate		
Sampling Date			16.10.2023		
Sampling Instrument		Sound Level Meter		Ldn	48.5
Lmax (Day)		54.1		Lmax (Night)	44.4
Lmin (Day)		44.7		Lmin (Night)	40.6
Leq (Day)		49.9		Leq (Night)	42.7
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	49.8	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	46.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	52.3	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	51.9	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	54.1	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	49.7	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	45.6	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	48.4	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	49.0	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	47.2	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	53.5	dB (A) Leq	IS 9989	75



Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Main Gate			
Sampling Date		16.10.2023			
Sampling Instrument	Sound Level Meter	Ldn	48.5		
Lmax (Day)	54.1	Lmax (Night)	44.4		
Lmin (Day)	44.7	Lmin (Night)	40.6		
Leq (Day)	49.9	Leq (Night)	42.7		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	45.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	44.7	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	46.2	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	44.0	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	42.7	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	44.4	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	41.8	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.7	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.6	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	42.8	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	41.0	dB (A) Leq	IS 9989	70

Analysis By

Vishal Makwana
Vishal Makwana

Approved By

Pankil Patel
Pankil Patel

END



Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Project Building		
Sampling Date			19.10.2023		
Sampling Instrument		Sound Level Meter		Ldn	53.3
Lmax (Day)		60.7		Lmax (Day)	49.6
Lmin (Day)		45.2		Lmin (Day)	42.8
Leq (Day)		54.8		Leq (Day)	46.0
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	56.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	53.4	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	49.6	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	55.0	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	58.2	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	52.3	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	60.7	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	56.0	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	53.9	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	57.2	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	50.6	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	52.7	dB (A) Leq	IS 9989	75





Go Green Mechanisms Pvt.Ltd.

Reporting Date:-06.11.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring		
Location	Nr. Project Building		
Sampling Date	19.10.2023		
Sampling Instrument	Sound Level Meter	Ldn	53.3
Lmax (Day)	60.7	Lmax (Day)	49.6
Lmin (Day)	45.2	Lmin (Day)	42.8
Leq (Day)	54.8	Leq (Day)	46.0

Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.1	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	45.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	49.6	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	47.2	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	46.0	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	49.6	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	44.0	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	42.8	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	45.7	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	46.8	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	43.9	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	45.3	dB (A) Leq	IS 9989	70

Analysis By
Vishal Makwana
Vishal Makwana



Approved By
Pankil Patel
Pankil Patel

.....
END.....

Report Issued to:

Kutch Copper Limited

**At & PO: Mundra, Kutch 370421
Gujarat.**

ENVIRONMENTAL MONTHLY MONITORING REPORT

MONTH OF NOV'23



Go Green Mechanisms Pvt. Ltd.



Contact: 7069072008/10

Email: lab@gogreenmechanisms.com

Ref: GGMPL2023/OT108C-R1 dated 19.12.2023

To,
Kutch Copper Limited
At & Po: Mundra, Kutch 370421 Gujarat

Subject: Submission of Monthly Report for the Kutch Copper Limited

Respected Sir,

This is to inform you that we hereby are submitting the Monitoring Report for the Month of November 2023.

Below given is the Sample Quantity along with Sample type for your reference.

Sr. No.	Description	Total Number of Reports/Samples
1.	Ground Water Reports	03
2.	Surface Water Report	01
3.	Ambient Air Reports	36
4.	Ambient Noise Reports	06
5.	Soil Report	01

Thanks and Regards



For Go Green Mechanisms Pvt Ltd



**Ground
/Surface
Water Report**

Reporting Date: - 07.12.2023

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited							
Sample Type		Water							
Sample Quantity		3.5 L							
Date of Sampling		23.11.2023							
Analysis Period		24.11.2023 - 30.11.2023							
Sl. No.	Parameter	Unit	Location				Test Method	IS 10500:2012	
			Shiracha Village (GW)	MotiBhujpar Village (GW)	Near Plant gate (GW)	Zarpara Village (SW)		AL	PL
1.	pH@25 °C	-	8.13	6.82	6.25	7.43	IS 3025-Part11	6.5-8.5	No relaxation
2.	Turbidity	NTU	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	1	5
3.	Total Dissolved Solids	mg/L	444.0	747.0	513.0	256.0	APHA23rd Edn(2540 C)	500	2000
4.	Total Hardness as CaCO3	mg/L	196.0	384.0	178.0	134.0	APHA23rd Edn(2340 C)	200	600
5.	Alkalinity as CaCO3	mg/L	115.00	280.00	152.00	103.00	APHA23rd Edn (2230B)	200	600
6.	Calcium as Ca	mg/L	42.48	76.95	44.89	26.45	APHA23rdEdn (3500Ca B)	75	200
7.	Chloride	mg/L	131.96	174.95	163.95	73.98	IS 3025-Part23	250	1000
8.	Sulphate	mg/L	56.51	118.24	44.49	34.87	APHA23rdEdn (4500SO ₄ E)	200	400
9.	Nitrate	mg/L	1.53	2.16	1.63	0.58	APHA23rdEdn (4500NO ₃ B)	45	No relaxation
10.	Iron	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA 23rdEdn (3120 B)	0.3	No relaxation
11.	Fluoride	mg/L	0.56	0.78	0.53	0.41	APHA 23rdEdn (4500 F D)	1	1.5
12.	Hexavalent Chromium as Cr6+	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	APHA 23rdEdn (3500Cr B)	NS	NS




13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA 23rdEdn (3120 B)	5	15
14.	Magnesium (Mg)	mg/L	21.87	46.66	16.04	16.52	APHA23rdEdn (3500MgB)	30	100
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (4500 Cl B)	0.2	1.0
16.	Colour	CU	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	IS 3025- Part 4	5	15
17.	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025 - Part 5	Agreeable	Agreeable
18.	Temperature	°C	25.9	25.6	25.8	25.7	APHA23rdEdn (2550B)	NS	NS
19.	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	IS 3025-Part7,8	Agreeable	Agreeable
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	IS 3025- Part 43	0.001	0.002
21.	Cyanide	mg/L	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	GGMPL/SOP/W/ 43	0.05	No relaxation
22.	Aluminium (Al)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.03	0.2
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	0.05
24.	Boron (B)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.5	1.0
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.003	No relaxation
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.05	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.1	0.3
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	0.001	No relaxation
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation



31.	Anionic Surface Active Agents	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (5540 C)	0.2	1.0
32.	E.Coli	MPN/100ml	Absent	Absent	Absent	Absent	IS 1622	-	Absent
33.	Total Coliform	MPN/100ml	Absent	Absent	Absent	Absent	IS 1622	-	Absent

BQL - Below Quantification Limit

Analysis By

 Vishal Makwana



Approved By

 Pankil Patel

.....END.....

Ambient Air Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: -07.12.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Moti Bhujpar Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part-12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	02.11.2023	03.11.2023	59.93	29.58	11.84	19.52	-	-	-	-	-	-	-
2.	06.11.2023	07.11.2023	61.91	29.58	11.67	22.07	-	-	-	-	-	-	-
3.	09.11.2023	10.11.2023	56.22	28.74	10.72	18.56	-	-	-	-	-	-	-



4.	15.11.2023	16.11.2023	61.85	31.66	10.03	18.35	-	-	-	-	-	-	-	-
5.	17.11.2023	18.11.2023	60.43	29.58	11.03	19.05	-	-	-	-	-	-	-	-
6.	20.11.2023	21.11.2023	56.95	32.49	10.10	18.35	13.31	11.40	0.36	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
7.	23.11.2023	24.11.2023	59.55	30.41	10.31	18.82	-	-	-	-	-	-	-	-
8.	27.11.2023	28.11.2023	60.99	34.16	10.96	18.12	-	-	-	-	-	-	-	-
9.	30.11.2023	01.12.2023	57.85	30.42	10.27	18.59								
AVERAGE			59.52	30.74	10.77	19.05	-	-	-	-	-	-	-	-

Analysis By



Vishal Makvana



Approved By



Pankil Patel

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 07.12.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Zarapara Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	02.11.2023	03.11.2023	58.01	29.58	11.36	18.35	-	-	-	-	-	-	-
2.	06.11.2023	07.11.2023	62.72	34.58	10.93	19.98	-	-	-	-	-	-	-
3.	09.11.2023	10.11.2023	59.37	29.16	10.38	20.65	-	-	-	-	-	-	-



4.	15.11.2023	16.11.2023	59.37	30.41	13.36	24.31	-	-	-	-	-	-	-	-
5.	17.11.2023	18.11.2023	58.78	31.24	9.34	17.66	-	-	-	-	-	-	-	-
6.	20.11.2023	21.11.2023	57.79	28.74	9.34	18.82	13.94	11.40	0.40	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
7.	23.11.2023	24.11.2023	56.73	27.08	12.76	18.35	-	-	-	-	-	-	-	-
8.	27.11.2023	28.11.2023	60.73	28.33	11.56	19.34	-	-	-	-	-	-	-	-
9.	30.11.2023	01.12.2023	57.58	32.08	8.56	17.77	-	-	-	-	-	-	-	-
AVERAGE			58.69	29.67	10.88	19.47	-	-	-	-	-	-	-	-

Analysis By

Vishal

Vishal Makwana



Approved By

P

Pankil Patel

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END
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Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 07.12.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Shiracha Village												
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date		Sampling End Date											
1.	02.11.2023	03.11.2023	63.94	29.58	8.76	20.91	-	-	-	-	-	-	-	-
2.	06.11.2023	07.11.2023	57.62	27.49	12.58	18.30	-	-	-	-	-	-	-	-
3.	09.11.2023	10.11.2023	59.48	28.74	11.28	19.05	-	-	-	-	-	-	-	-



Go Green Mechanisms Pvt.Ltd.

4.	15.11.2023	16.11.2023	53.07	26.24	11.67	22.22	-	-	-	-	-	-	-	-
5.	17.11.2023	18.11.2023	54.99	28.74	11.41	15.68	-	-	-	-	-	-	-	-
6.	20.11.2023	21.11.2023	55.02	28.33	13.14	19.60	14.58	11.40	0.33	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
7.	23.11.2023	24.11.2023	64.88	31.66	14.43	17.42	-	-	-	-	-	-	-	-
8.	27.11.2023	28.11.2023	61.98	27.08	10.44	17.51	-	-	-	-	-	-	-	-
9.	30.11.2023	01.12.2023	60.87	30.83	9.73	16.99	-	-	-	-	-	-	-	-
AVERAGE			59.09	28.74	11.49	18.63	-	-	-	-	-	-	-	-

Analysis By

Vishy
Vishal Makwana



Approved By

P
Pankil Patel

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 07.12.2023

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Near Gate No.2												
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date		Sampling End Date											
1.	02.11.2023	03.11.2023	62.73	32.49	12.22	21.43	-	-	-	-	-	-	-	-
2.	06.11.2023	07.11.2023	59.25	33.74	13.62	23.52	-	-	-	-	-	-	-	-
3.	09.11.2023	10.11.2023	62.04	29.99	12.11	20.13	-	-	-	-	-	-	-	-





Go Green Mechanisms Pvt.Ltd.

4.	15.11.2023	16.11.2023	59.54	33.74	13.14	20.65	-	-	-	-	-	-	-	-
5.	17.11.2023	18.11.2023	65.55	32.91	14.45	19.34	-	-	-	-	-	-	-	-
6.	20.11.2023	21.11.2023	57.07	32.08	13.84	19.86	14.89	15.67	0.40	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
7.	23.11.2023	24.11.2023	62.19	29.16	14.43	22.22	-	-	-	-	-	-	-	-
8.	27.11.2023	28.11.2023	62.01	31.66	13.44	25.09	-	-	-	-	-	-	-	-
9.	30.11.2023	01.12.2023	57.34	30.83	10.51	17.51								
AVERAGE			60.86	31.85	13.08	20.97	-	-	-	-	-	-	-	-

Analysis By

Vishal

Vishal Makwana



Approved By

Pankil

Pankil Patel

.....END.....

Ambient Noise Report

Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Moti Bhujpar Village		
Sampling Date			02.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	47.9
Lmax (Day)		54.7		Lmax (Night)	43.9
Lmin (Day)		43.2		Lmin (Night)	39.2
Leq (Day)		49.3		Leq (Night)	41.7
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	49.3	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	46.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	48.9	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	50.7	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	52.8	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	47.5	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	45.7	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	46.7	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	51.3	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	54.7	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	50.1	dB (A) Leq	IS 9989	75



Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Moti Bhujpar Village			
Sampling Date		02.11.2023			
Sampling Instrument	Sound Level Meter	Ldn	47.9		
Lmax (Day)	54.7	Lmax (Night)	43.9		
Lmin (Day)	43.2	Lmin (Night)	39.2		
Leq (Day)	49.3	Leq (Night)	41.7		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	46.0	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	44.7	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	45.1	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	43.2	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	43.9	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	41.6	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	43.0	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.5	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	39.2	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.4	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	42.3	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	40.5	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana

Approved By
Pankil
Pankil Patel



Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Zarapara Village		
Sampling Date			06.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	46.6
Lmax (Day)		51.6		Lmax (Night)	44.8
Lmin (Day)		43.5		Lmin (Night)	39.6
Leq (Day)		47.8		Leq (Night)	42.3
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	45.9	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	49.7	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	48.1	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	50.4	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	48.5	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	51.6	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	47.0	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	45.9	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	48.3	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	47.1	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	46.8	dB (A) Leq	IS 9989	75



Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Zarapara Village			
Sampling Date		06.11.2023			
Sampling Instrument	Sound Level Meter	Ldn	46.6		
Lmax (Day)	51.6	Lmax (Night)	44.8		
Lmin (Day)	43.5	Lmin (Night)	39.6		
Leq (Day)	47.8	Leq (Night)	42.3		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	45.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	44.8	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	43.5	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	46.0	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.0	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	44.1	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	41.6	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.5	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.2	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	39.6	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	41.4	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	44.8	dB (A) Leq	IS 9989	70

Analysis By

Vishal
Vishal Makwana

Approved By

Pankil
Pankil Patel



.....END.....

Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Shiracha Village		
Sampling Date			09.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	49.8
Lmax (Day)		56.2		Lmax (Night)	46.0
Lmin (Day)		43.5		Lmin (Night)	39.2
Leq (Day)		51.3		Leq (Night)	42.2
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	43.7	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	56.2	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	52.3	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	48.9	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	50.7	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	52.9	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	46.4	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	51.2	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	47.5	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	49.0	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	54.2	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	56.2	dB (A) Leq	IS 9989	65



Reporting Date:- 07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Shiracha Village		
Sampling Date			09.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	49.8
Lmax (Day)		56.2		Lmax (Night)	46.0
Lmin (Day)		43.5		Lmin (Night)	39.2
Leq (Day)		51.3		Leq (Night)	42.2
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	48.7	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	45.2	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	44.6	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	43.5	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	40.7	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	42.2	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	40.5	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	39.2	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	39.7	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	40.5	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	43.8	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	46.0	dB (A) Leq	IS 9989	55

Analysis By


Vishal Makwana

Approved By


Pankil Patel

END

Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT


Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Gate No.2		
Sampling Date			15.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	51.4
Lmax (Day)		55.2		Lmax (Night)	43.4
Lmin (Day)		46.3		Lmin (Night)	40.2
Leq (Day)		52.0		Leq (Night)	41.5
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	49.7	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	48.2	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	51.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	53.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	50.9	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	52.2	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	53.9	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	54.1	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	55.2	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	54.9	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	51.8	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	51.2	dB (A) Leq	IS 9989	75




Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Gate No.2		
Sampling Date			15.11.2023		
Sampling Instrument		Sound Level Meter	Ldn	51.4	
Lmax (Day)		55.2	Lmax (Night)	43.4	
Lmin (Day)		46.3	Lmin (Night)	40.2	
Leq (Day)		52.0	Leq (Night)	41.5	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.2	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	47.3	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	48.0	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	46.3	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.4	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	41.9	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	40.5	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.2	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	43.4	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	41.8	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	40.7	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	40.2	dB (A) Leq	IS 9989	70

Analysis By

 Vishal Makwana

Approved By

 Pankil Patel



Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Main Gate		
Sampling Date			20.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	53.0
Lmax (Day)		57.8		Lmax (Night)	49.6
Lmin (Day)		47.1		Lmin (Night)	40.6
Leq (Day)		54.6		Leq (Night)	43.1
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.1	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	49.2	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	54.4	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	55.2	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	56.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	57.4	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	54.3	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	55.6	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	53.2	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	52.3	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	54.6	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	57.8	dB (A) Leq	IS 9989	75



Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Main Gate			
Sampling Date		20.11.2023			
Sampling Instrument	Sound Level Meter	Ldn	53.0		
Lmax (Day)	57.8	Lmax (Night)	49.6		
Lmin (Day)	47.1	Lmin (Night)	40.6		
Leq (Day)	54.6	Leq (Night)	43.1		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	56.1	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	55.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	52.7	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	49.5	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	45.6	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	44.7	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	42.4	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	41.3	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.7	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.6	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	41.8	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	43.3	dB (A) Leq	IS 9989	70

Analysis By

Vishal Makwana
Vishal Makwana

Approved By

Pankil Patel
Pankil Patel

END

Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Project Building		
Sampling Date			17.11.2023		
Sampling Instrument		Sound Level Meter		Ldn	50.4
Lmax (Day)		55.2		Lmax (Day)	43.4
Lmin (Day)		40.3		Lmin (Day)	40.2
Leq (Day)		51.9		Leq (Day)	41.5
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	48.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	49.7	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	51.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	53.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	50.9	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	52.2	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	53.9	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	54.1	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	55.2	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	54.9	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	51.8	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	51.2	dB (A) Leq	IS 9989	75



Reporting Date:-07.12.2023

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Project Building			
Sampling Date		17.11.2023			
Sampling Instrument	Sound Level Meter	Ldn		50.4	
Lmax (Day)	55.2	Lmax (Day)		43.4	
Lmin (Day)	40.3	Lmin (Day)		40.2	
Leq (Day)	51.9	Leq (Day)		41.5	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.2	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	47.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	48.0	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	40.3	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.4	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	41.9	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	40.5	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.2	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	43.4	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	41.8	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	40.7	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	40.2	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana

Approved By
Pankil
Pankil Patel



Soil Report

Reporting Date:-07.12.2023

SOIL ANALYSIS REPORT

Company Name		Kutch Copper Limited		
Sample Type		Soil		
Sample Quantity		2 kg		
Date of Sampling		23.11.2023		
Analysis Period		24.11.2023-30.11.2023		
Sl. No.	Parameter	Unit	Test Method	Location
				Shiracha Village
1.	Molybdenum	mg/kg	USEPA Method 3051A	1.4634
2.	Caicium as Ca	%	USEPA Method 3051A	0.1663
3.	Magnesium as Mg	%	USEPA Method 3051A	0.1416
4.	Zinc as Zn	%	USEPA Method 3051A	0.0008
5.	Manganese as Mn	%	USEPA Method 3051A	0.0013
6.	Potassium as K	%	USEPA Method 3051A	0.0095
7.	Iron as Fe	%	USEPA Method 3051A	0.0025
8.	Boron as B	%	USEPA Method 3051A	0.0007
9.	Chloride as Cl	%	USEPA Method 3051A	0.0320
10.	Nitrogen as N	%	USEPA Method 3051A	0.0177





Go Green Mechanisms Pvt.Ltd.

11.	Soluble Sulphate	%	IS 2720- Part 27	0.0027
12.	Phosphorus as P	%	USEPA Method 3051A	0.0005

BQL - Below Quantification Limit

Analysis By

Vishal Makwana

Approved By

Pankil Patel

.....END.....



Report Issued to:

Kutch Copper Limited

**At & PO: Mundra, Kutch 370421
Gujarat.**

ENVIRONMENTAL MONTHLY MONITORING REPORT

MONTH OF DEC'23



Go Green Mechanisms Pvt. Ltd.



Contact: 7069072008/10

Email: lab@gogreenmechanisms.com

Ref: GGMPL2023/OT110C dated 12.01.2024

To,
Kutch Copper Limited
At & Po: Mundra, Kutch 370421 Gujarat

Subject: Submission of Monthly Report for the Kutch Copper Limited

Respected Sir,

This is to inform you that we hereby are submitting the Monitoring Report for the Month of December 2023.

Below given is the Sample Quantity along with Sample type for your reference.

Sr. No.	Description	Total Number of Reports/Samples
1.	Ambient Air Reports	32
3.	Ambient Noise Reports	06
4.	Ground Water Reports	03
5.	Surface Water Report	01
6.	Soil Report	01

Thanks and Regards



For Go Green Mechanisms Pvt Ltd



Ambient Air Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: -10.01.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Moti Bhujpar Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	04.12.2023	05.12.2023	62.54	30.41	13.15	17.96	-	-	-	-	-	-	-
2.	08.12.2023	09.12.2023	60.52	29.16	9.34	21.46	-	-	-	-	-	-	-
3.	11.12.2023	12.12.2023	58.90	29.99	11.18	16.80	-	-	-	-	-	-	-



4.	15.12.2023	16.12.2023	62.07	32.08	9.75	17.50	-	-	-	-	-	-	-	-
	18.12.2023	19.12.2023	60.04	31.66	10.48	20.30	-	-	-	-	-	-	-	-
6.	22.12.2023	23.12.2023	59.01	30.83	11.88	16.80	-	-	-	-	-	-	-	-
7.	25.12.2023	26.12.2023	57.65	28.74	12.15	17.26	14.49	12.50	0.36	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	29.12.2023	30.12.2023	63.92	29.99	13.23	16.80	-	-	-	-	-	-	-	-
AVERAGE			60.58	30.36	11.39	18.11	-	-	-	-	-	-	-	-

Analysis By



Vishal Makvana



Approved By



Pankil Patel

.....
END
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Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 10.01.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Zarapara Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	04.12.2023	05.12.2023	60.48	31.24	10.51	16.80	-	-	-	-	-	-	-
2.	08.12.2023	09.12.2023	58.17	29.16	11.07	21.23	-	-	-	-	-	-	-
3.	11.12.2023	12.12.2023	61.12	27.49	11.79	21.52	-	-	-	-	-	-	-



4.	15.12.2023	16.12.2023	60.16	32.08	15.28	23.10	-	-	-	-	-	-	-	-
5.	18.12.2023	19.12.2023	59.71	29.16	12.18	19.16	-	-	-	-	-	-	-	-
6.	22.12.2023	23.12.2023	58.22	30.83	10.61	20.06	-	-	-	-	-	-	-	-
7.	25.12.2023	26.12.2023	61.00	31.66	11.45	21.26	12.33	9.72	0.38	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	29.12.2023	30.12.2023	64.71	29.99	13.71	20.06	-	-	-	-	-	-	-	-
AVERAGE			60.45	30.20	12.08	20.40	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Pankil
Pankil Patel

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 10.01.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Shiracha Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SO P/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	04.12.2023	05.12.2023	62.90	32.08	10.42	22.31	-	-	-	-	-	-	-
2.	08.12.2023	09.12.2023	58.00	27.91	10.22	16.80	-	-	-	-	-	-	-
3.	11.12.2023	12.12.2023	61.32	30.41	13.80	21.00	-	-	-	-	-	-	-



4.	15.12.2033	16.12.2023	52.78	28.74	9.75	20.47	-	-	-	-	-	-	-	-
5.	18.12.2023	19.12.2023	56.31	30.41	12.62	17.85	-	-	-	-	-	-	-	-
6.	22.12.2023	23.12.2023	53.48	27.49	13.01	20.21	-	-	-	-	-	-	-	-
7.	25.12.2023	26.12.2023	57.31	29.16	14.20	19.95	13.57	11.11	0.35	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	29.12.2023	30.12.2022	62.78	32.49	12.97	22.57	-	-	-	-	-	-	-	-
AVERAGE			58.11	29.84	12.12	20.14	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Pankil
Pankil Patel

.....END.....



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 10.01.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Near Gate No.2											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1.	04.12.2023	05.12.2023	64.34	34.58	11.37	23.36	-	-	-	-	-	-	-
2.	08.12.2023	09.12.2023	58.60	31.66	14.15	21.26	-	-	-	-	-	-	-
3.	11.12.2023	12.12.2023	64.11	32.08	12.97	22.86	-	-	-	-	-	-	-



4.	15.12.2023	16.12.2023	61.92	34.58	16.45	18.43	-	-	-	-	-	-	-	-
5.	18.12.2023	19.12.2023	63.50	30.41	13.67	17.26	-	-	-	-	-	-	-	-
6.	22.12.2023	23.12.2023	61.85	29.58	15.07	21.52	-	-	-	-	-	-	-	-
7.	25.12.2023	26.12.2023	57.58	31.24	13.66	22.31	13.57	14.17	0.41	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
8.	29.12.2023	30.12.2023	59.44	32.08	14.67	21.52	-	-	-	-	-	-	-	-
AVERAGE			61.42	32.02	14.00	21.07	-	-	-	-	-	-	-	-

Analysis By

Vishal

Vishal Makwana



Approved By

P

Pankil Patel

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END
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Ambient Noise Report

Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Moti Bhujpar Village		
Sampling Date			04.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	53.6
Lmax (Day)		61.2		Lmax (Night)	40.8
Lmin (Day)		40.1		Lmin (Night)	39.2
Leq (Day)		55.3		Leq (Night)	39.9
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	41.1	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	49.3	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	54.4	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	61.2	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	59.2	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	57.3	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	56.6	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	54.2	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	57.8	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	48.2	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	59.3	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	48.3	dB (A) Leq	IS 9989	75



Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Moti Bhujpar Village		
Sampling Date			04.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	53.6
Lmax (Day)		61.2		Lmax (Night)	40.8
Lmin (Day)		40.1		Lmin (Night)	39.2
Leq (Day)		55.3		Leq (Night)	39.9
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	40.1	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	40.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	40.3	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	40.4	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	40.8	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	40.4	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	40.2	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.3	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	39.3	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	39.4	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	39.2	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	39.7	dB (A) Leq	IS 9989	70

Analysis By
Vishal Makwana
Vishal Makwana

Approved By
Pankil Patel
Pankil Patel

.....END.....



Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Zarapara Village		
Sampling Date			08.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	48.4
Lmax (Day)		54.1		Lmax (Night)	43.0
Lmin (Day)		44.9		Lmin (Night)	39.6
Leq (Day)		49.9		Leq (Night)	41.8
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	46.8	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	48.2	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	49.6	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	53.5	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	54.1	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	51.6	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	49.6	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	48.2	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	47.0	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	46.8	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	50.6	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	51.1	dB (A) Leq	IS 9989	75



Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Zarapara Village			
Sampling Date		08.12.2023			
Sampling Instrument	Sound Level Meter	Ldn	48.4		
Lmax (Day)	54.1	Lmax (Night)	43.0		
Lmin (Day)	44.9	Lmin (Night)	39.6		
Leq (Day)	49.9	Leq (Night)	41.8		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	47.3	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	45.1	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	44.9	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.7	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	43.0	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	42.9	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.7	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	39.6	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	41.2	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	40.7	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	42.0	dB (A) Leq	IS 9989	70

Analysis By

Vishal
Vishal Makwana

Approved By

Pankil
Pankil Patel

.....END.....





Go Green Mechanisms Pvt.Ltd.

Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring				
Location	Shiracha Village				
Sampling Date	11.12.2023				
Sampling Instrument	Sound Level Meter	Ldn	48.5		
Lmax (Day)	54.1	Lmax (Night)	43.5		
Lmin (Day)	44.9	Lmin (Night)	39.6		
Leq (Day)	49.9	Leq (Night)	41.8		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	46.8	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	48.2	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	49.6	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	53.5	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	54.1	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	51.6	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	49.6	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	48.2	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	47.3	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	46.8	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	50.6	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	51.1	dB (A) Leq	IS 9989	65



Reporting Date:- 10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Shiracha Village		
Sampling Date			11.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	48.5
Lmax (Day)		54.1		Lmax (Night)	43.5
Lmin (Day)		44.9		Lmin (Night)	39.6
Leq (Day)		49.9		Leq (Night)	41.8
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.7	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	47.8	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	45.1	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	44.9	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	42.7	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	43.0	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	42.9	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	40.7	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	39.7	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	39.6	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	39.8	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	43.5	dB (A) Leq	IS 9989	55

Analysis By

Vishal
Vishal Makwana

Approved By

P
Pankil Patel

END.....



Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

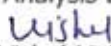
Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Gate No.2		
Sampling Date			15.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	49.3
Lmax (Day)		54.2		Lmax (Night)	43.8
Lmin (Day)		45.7		Lmin (Night)	39.7
Leq (Day)		50.8		Leq (Night)	42.1
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	49.0	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	48.7	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	51.6	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	54.2	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	52.9	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	53.7	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	50.7	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	48.7	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	48.5	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	51.6	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	54.0	dB (A) Leq	IS 9989	75




Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Gate No.2		
Sampling Date			15.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	49.3
Lmax (Day)		54.2		Lmax (Night)	43.8
Lmin (Day)		45.7		Lmin (Night)	39.7
Leq (Day)		50.8		Leq (Night)	42.1
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.0	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	46.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	45.7	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	45.9	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	43.2	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	43.0	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	42.6	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	40.8	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	40.9	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	39.7	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	41.2	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	43.8	dB (A) Leq	IS 9989	70

Analysis By

 Vishal Makwana

Approved By

 Pankil Patel

.....
 END



Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Project Building		
Sampling Date			22.12.2023		
Sampling Instrument		Sound Level Meter		Ldn	49.2
Lmax (Day)		54.0		Lmax (Day)	44.8
Lmin (Day)		46.4		Lmin (Day)	38.0
Leq (Day)		50.7		Leq (Day)	41.7
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	45.3	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	47.8	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	48.0	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	50.2	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	53.9	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	52.9	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	54.0	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	52.1	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	50.3	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	47.8	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	49.3	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	52.4	dB (A) Leq	IS 9989	75



Reporting Date:- 10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Project Building			
Sampling Date		22.12.2023			
Sampling Instrument	Sound Level Meter	Ldn	49.2		
Lmax (Day)	54.0	Lmax (Day)	44.8		
Lmin (Day)	46.4	Lmin (Day)	38.0		
Leq (Day)	50.7	Leq (Day)	41.7		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	51.9	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	49.1	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	47.3	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	46.4	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	44.8	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	43.7	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	41.3	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	41.0	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	40.0	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	38.0	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	39.3	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	41.3	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana

Approved By
Pankil Patel
Pankil Patel

.....END.....



Reporting Date:-10.01.2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Main Gate			
Sampling Date		25.12.2023			
Sampling Instrument	Sound Level Meter	Ldn	51.8		
Lmax (Day)	58.7	Lmax (Night)	46.3		
Lmin (Day)	44.3	Lmin (Night)	40.8		
Leq (Day)	53.3	Leq (Night)	43.5		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	46.7	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	48.8	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	49.4	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	47.8	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	56.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	54.5	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	51.9	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	55.3	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	53.4	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	58.7	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	53.9	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	56.4	dB (A) Leq	IS 9989	75



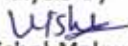
Reporting Date:-10.01.2024


AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Main Gate			
Sampling Date		25.12.2023			
Sampling Instrument	Sound Level Meter	Ldn	51.8		
Lmax (Day)	58.7	Lmax (Night)	46.3		
Lmin (Day)	44.3	Lmin (Night)	40.8		
Leq (Day)	53.3	Leq (Night)	43.5		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	52.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	47.0	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	45.8	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	44.3	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	45.8	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	42.1	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	43.7	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	41.3	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.4	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.8	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	41.7	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	46.3	dB (A) Leq	IS 9989	70

Analysis By

 Vishal Makwana

Approved By

 Pankil Patel

.....END.....



Ground Water Report

Reporting Date: - 10.01.2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited						
Sample Type	Water							
Sample Quantity	3.5L							
Date of Sampling	25.12.2023							
Analysis Period	27.12.2023 - 04.01.2024							
Sl. No.	Parameter	Unit	Location			Test Method	IS 10500:2012	
			Shiracha Village (GW)	MotiBhujpar Village (GW)	Near Plant gate (GW)		AL	PL
1.	pH@25 °C	-	7.96	6.98	6.56	IS 3025-Part11	6.5-8.5	No relaxation
2.	Turbidity	NTU	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	1	5
3.	Total Dissolved Solids	mg/L	420.0	682.0	485.0	APHA23rd Edn(2540 C)	500	2000
4.	Total Hardness as CaCO3	mg/L	173.0	374.0	182.0	APHA23rd Edn(2340 C)	200	600
5.	Alkalinity as CaCO3	mg/L	113.00	266.0	142.0	APHA23rd Edn (2230B)	200	600
6.	Calcium as Ca	mg/L	37.27	70.54	41.28	APHA23rdEdn (3500Ca B)	75	200
7.	Chloride	mg/L	124.96	161.95	167.95	IS 3025-Part 32	250	1000
8.	Sulphate	mg/L	52.58	101.24	46.40	APHA23rdEdn (4500SO ₄ E)	200	400
9.	Nitrate	mg/L	1.32	2.16	1.42	APHA23rdEdn (4500NO ₃ B)	45	No relaxation
10.	Iron	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA 23rdEdn(3120 B)	0.3	No relaxation
11.	Fluoride	mg/L	0.52	0.63	0.43	APHA 23rdEdn(4500 F D)	1	1.5



12.	Hexavalent Chromium as Cr6+	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	APHA 23rdEdn(3500Cr B)	NS	NS
13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA 23rdEdn(3120 B)	5	15
14.	Magnesium (Mg)	mg/L	19.44	48.11	19.20	APHA23rdEdn(3500MgB)	30	100
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn(4500Cl B)	0.2	1.0
16.	Colour	CU	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	IS 3025-Part 4	5	15
17.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025-Part 5	Agreeable	Agreeable
18.	Temperature	°C	23.9	24.5	23.4	APHA23rdEdn (2550B)	NS	NS
19.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025-Part7,8	Agreeable	Agreeable
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	IS 3025- Part 43	0.001	0.002
21.	Cyanide	mg/L	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	GGMPL/SOP/W/43	0.05	No relaxation
22.	Aluminium (Al)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.03	0.2
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	0.05
24.	Boron (B)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.5	1.0
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.003	No relaxation
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.05	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.1	0.3
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	0.001	No relaxation
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation



Surface Water Report

Reporting Date: - 10.01.2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited			
Sample Type	Water				
Sample Quantity	3.5 L				
Date of Sampling	25.12.2023				
Analysis Period	27.12.2023 - 04.01.2024				
Sl. No.	Parameter	Unit	Location	Test Method	Norms as per IS: 2296 Class-C
			Zarpara Village (SW)		
1.	pH@25 °C	-	7.53	IS 3025-Part11	8.5
2.	Turbidity	NTU	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	NS
3.	Total Dissolved Solids	mg/L	236.0	APHA23rd Edn(2540 C)	1500
4.	Total Hardness as CaCO ₃	mg/L	123.0	APHA23rd Edn(2340 C)	-
5.	Alkalinity as CaCO ₃	mg/L	98.00	APHA23rd Edn (2230B)	NS
6.	Calcium as Ca	mg/L	22.44	APHA23rdEdn (3500Ca B)	-
7.	Chloride	mg/L	65.98	IS 3025-Part 32	600
8.	Sulphate	mg/L	31.59	APHA23rdEdn (4500SO ₄ E)	400
9.	Nitrate	mg/L	0.58	APHA23rdEdn (4500NO ₃ B)	50
10.	Iron	mg/L	BQL (QL=0.05)	APHA 23rdEdn (3120 B)	50



11.	Fluoride	mg/L	0.37	APHA 23rdEdn (4500 F D)	1.5
12.	Hexavalent Chromium as Cr6+	mg/L	BQL (QL=0.01)	APHA 23rdEdn (3500Cr B)	0.05
13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	APHA 23rdEdn (3120 B)	15
14.	Magnesium (Mg)	mg/L	16.28	APHA23rdEdn (3500MgB)	-
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	APHA23rdEdn (4500 Cl B)	0.2
16.	Colour	CU	BQL (QL=1)	IS 3025- Part 4	300
17.	Odour	-	Agreeable	IS 3025 - Part 5	-
18.	Temperature	°C	23.6	APHA23rdEdn (2550B)	NS
19.	Taste	-	Agreeable	IS 3025-Part7,8	-
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	IS 3025-Part 43	0.005
21.	Cyanide	mg/L	BQL (QL=0.025)	GGMPL/SOP/W/43	0.05
22.	Aluminium (Al)	mg/L	BQL (QL=0.02)	APHA23rdEdn (3120 B)	NS
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.2
24.	Boron (B)	mg/L	BQL (QL=0.05)	APHA23rdEdn (3120 B)	-
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.01
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	APHA23rdEdn (3120 B)	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.1
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	APHA23rdEdn (3120 B)	-
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	-
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.05



Soil Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date:-10.01.2024

SOIL ANALYSIS REPORT

Company Name		Kutch Copper Limited		
Sample Type		Soil		
Sample Quantity		2 kg		
Date of Sampling		25.12.2023		
Analysis Period		27.12.2023-04.01.2024		
Sl. No.	Parameter	Unit	Test Method	Location
				Shiracha Village
1.	Molybdenum	mg/kg	USEPA Method 3051A	1.33
2.	Calcium as Ca	%	USEPA Method 3051A	0.1516
3.	Magnesium as Mg	%	USEPA Method 3051A	0.1290
4.	Zinc as Zn	%	USEPA Method 3051A	0.0007
5.	Manganese as Mn	%	USEPA Method 3051A	0.0012
6.	Potassium as K	%	USEPA Method 3051A	0.0086
7.	Iron as Fe	%	USEPA Method 3051A	0.0022
8.	Boron as B	%	USEPA Method 3051A	0.0006
9.	Chloride as Cl	%	USEPA Method 3051A	0.0307
10.	Nitrogen as N	%	USEPA Method 3051A	0.0183





Go Green Mechanisms Pvt.Ltd.

11.	Soluble Sulphate	%	IS 2720- Part 27	0.0029
12.	Phosphorus as P	%	USEPA Method 3051A	0.0005

BQL - Below Quantification Limit

Analysis By

Vishal Makwana

Approved By

Pankil Patel

.....END.....



Report Issued to:

Kutch Copper Limited

**At & PO: Mundra, Kutch 370421
Gujarat.**

ENVIRONMENTAL MONTHLY MONITORING REPORT

MONTH OF JAN'24



Go Green Mechanisms Pvt. Ltd.



Contact: 7069072008/10

Email: lab@gogreenmechanisms.com

Ref: GGMP2024/OT112C dated 14.02.2024

To,
Kutch Copper Limited
At & Po: Mundra, Kutch 370421 Gujarat

Subject: Submission of Monthly Report for the Kutch Copper Limited

Respected Sir,

This is to inform you that we hereby are submitting the Monitoring Report for the Month of January 2024.

Below given is the Sample Quantity along with Sample type for your reference.

Sr. No.	Description	Total Number of Reports/Samples
1.	Ambient Air Reports	32
2.	Ambient Noise Reports	06
3.	Ground Water Reports	03
4.	Surface Water Report	01

Thanks and Regards



For Go Green Mechanisms Pvt Ltd



Ambient Air Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: -09.02.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Project Site											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1	05.01.2024	06.01.2024	71.15	42.49	14.38	25.58	-	-	-	-	-	-	-
2	08.01.2024	09.01.2024	66.28	37.49	11.86	21.96	-	-	-	-	-	-	-
3	11.01.2024	12.01.2024	68.04	39.16	13.68	24.98	-	-	-	-	-	-	-





Go Green Mechanisms Pvt.Ltd.

4.	15.01.2024	16.01.2024	66.98	34.99	11.03	23.65	-	-	-	-	-	-	-	-
5	18.01.2024	19.01.2024	71.05	39.58	11.78	26.88	14.23	16.95	0.37	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
6	22.01.2024	23.01.2024	67.83	41.66	13.93	29.86	-	-	-	-	-	-	-	-
7	25.01.2024	26.01.2024	69.38	39.99	13.46	25.34	-	-	-	-	-	-	-	-
8.	29.01.2024	30.01.2024	72.40	37.91	12.92	27.42	-	-	-	-	-	-	-	-
AVERAGE			69.14	39.16	12.88	25.71	-	-	-	-	-	-	-	-

Analysis By

Vishal

Vishal Makvana



Approved By

Ramakant Panday

Ramakant Panday

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 09.02.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Shiracha Village												
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As	
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³	
	Test Method	IS 5182-Part23	GGMPL/SO P/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4	
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6	
	Sampling Start Date	Sampling End Date												
1	05.01.2024	06.01.2024	60.87	32.49	10.50	22.26	-	-	-	-	-	-	-	
2	08.01.2024	09.01.2024	64.89	36.24	11.93	25.25	-	-	-	-	-	-	-	
3.	11.01.2024	12.01.2024	61.89	32.08	11.20	21.72	-	-	-	-	-	-	-	





Go Green Mechanisms Pvt.Ltd.

4	15.01.2024	16.01.2024	62.79	35.41	10.52	20.51	-	-	-	-	-	-	-	-
5	18.01.2024	19.01.2024	61.92	32.49	9.28	23.62	12.68	14.13	0.36	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
6	22.01.2024	23.01.2024	64.55	34.99	11.65	24.16	-	-	-	-	-	-	-	-
7	25.01.2024	26.01.2024	61.92	33.33	9.85	26.06	-	-	-	-	-	-	-	-
8.	29.01.2024	30.01.2024	63.86	32.49	12.22	25.79	-	-	-	-	-	-	-	-
AVERAGE			62.84	33.69	10.90	23.67	-	-	-	-	-	-	-	-

Analysis By

Vishal

Vishal Makwana



Approved By

Ramakant Panday

Ramakant Panday

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 09.02.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Tunda Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3,4	Method IO-3,4	Method IO-3,4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1	05.01.2024	06.01.2024	67.68	37.91	11.62	22.20	-	-	-	-	-	-	-
2	08.01.2024	09.01.2024	64.39	36.24	14.03	25.58	-	-	-	-	-	-	-
3	11.01.2024	12.01.2024	62.43	37.08	13.39	23.65	-	-	-	-	-	-	-





Go Green Mechanisms Pvt.Ltd.

4	15.01.2024	16.01.2024	64.97	34.58	12.67	24.70	-	-	-	-	-	-	-	-
5	18.01.2024	19.01.2024	63.25	36.24	13.56	26.60	13.92	15.54	0.29	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
6	22.01.2024	23.01.2024	65.12	34.99	14.30	24.16	-	-	-	-	-	-	-	-
7	25.01.2024	26.01.2024	66.31	36.24	13.39	26.54	-	-	-	-	-	-	-	-
8.	29.01.2024	30.01.2024	63.87	35.83	11.56	25.79	-	-	-	-	-	-	-	-
AVERAGE			64.75	36.14	13.07	24.90	-	-	-	-	-	-	-	-

Analysis By

vishal

Vishal Makwana



Approved By

Ramakant Panday

Ramakant Panday

.....END.....



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 09.02.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Zarpara Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1	05.01.2024	06.01.2024	67.68	37.91	11.62	22.20	-	-	-	-	-	-	-
2	08.01.2024	09.01.2024	64.39	36.24	14.03	25.58	-	-	-	-	-	-	-
3	11.01.2024	12.01.2024	62.43	37.08	13.39	23.65	-	-	-	-	-	-	-





Go Green Mechanisms Pvt.Ltd.

4	15.01.2024	16.01.2024	64.97	34.58	12.67	24.70	-	-	-	-	-	-	-	-
5	18.01.2024	19.01.2024	63.25	36.24	13.56	26.60	13.92	15.54	0.29	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
6	22.01.2024	23.01.2024	65.12	34.99	14.30	24.16	-	-	-	-	-	-	-	-
7	25.01.2024	26.01.2024	66.31	36.24	13.39	26.54	-	-	-	-	-	-	-	-
8.	29.01.2024	30.01.2024	63.87	35.83	11.56	25.79	-	-	-	-	-	-	-	-
9	01.02.2024	02.02.2024	68.70	36.24	12.67	23.65								
AVERAGE			65.19	36.15	13.02	24.76	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Ramakant Panday
Ramakant Panday

END



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 09.02.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Navinal Village												
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date		Sampling End Date											
1	05.01.2024	06.01.2024	62.26	29.16	10.21	19.00	-	-	-	-	-	-	-	-
2	08.01.2024	09.01.2024	60.85	31.24	12.63	20.36	-	-	-	-	-	-	-	-
3	11.01.2024	12.01.2024	59.41	32.91	9.85	21.72	-	-	-	-	-	-	-	-





Go Green Mechanisms Pvt.Ltd.

4	15.01.2024	16.01.2024	63.71	33.74	11.62	19.27	-	-	-	-	-	-	-	
5	18.01.2024	19.01.2024	58.13	30.83	8.88	22.26	11.75	12.71	0.32	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
6	22.01.2024	23.01.2024	61.94	35.83	12.71	21.48	-	-	-	-	-	-	-	
7	25.01.2024	26.01.2024	60.70	30.41	11.20	19.55	-	-	-	-	-	-	-	
8.	29.01.2024	30.01.2024	61.86	30.41	9.43	21.96	-	-	-	-	-	-	-	
AVERAGE			61.1	31.82	10.82	20.70	-	-	-	-	-	-	-	

Analysis By

Vishal
Vishal Makwana



Approved By

Ramakant Panday
Ramakant Panday

.....END.....

Ambient Noise Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date:-09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Shiracha Village		
Sampling Date			15.01.2024		
Sampling Instrument		Sound Level Meter		Ldn	51.9
Lmax (Day)		58.5		Lmax (Night)	49.0
Lmin (Day)		47.3		Lmin (Night)	39.1
Leq (Day)		53.5		Leq (Night)	44.0
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	53.5	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	55.2	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	52.1	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	51.8	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	50.6	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	52.7	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	48.3	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	51.1	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	47.3	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	49.0	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	54.1	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	56.1	dB (A) Leq	IS 9989	65





Go Green Mechanisms Pvt.Ltd.

Reporting Date:- 09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring				
Location	Nr.Shiracha Village				
Sampling Date	15.01.2024				
Sampling Instrument	Sound Level Meter	Ldn	51.9		
Lmax (Day)	58.5	Lmax (Night)	49.0		
Lmin (Day)	47.3	Lmin (Night)	39.1		
Leq (Day)	53.5	Leq (Night)	44.0		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	58.5	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	55.1	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	54.4	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	48.5	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	45.6	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	42.1	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	40.1	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	39.1	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	39.5	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	41.2	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	44.5	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	49.0	dB (A) Leq	IS 9989	55

Analysis By

Vishal
Vishal Makwana



Approved By

Ramakant Panday
Ramakant Panday

Reporting Date:-09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Zarpara Village		
Sampling Date			18.01.2024		
Sampling Instrument		Sound Level Meter		Ldn	50.7
Lmax (Day)		56.3		Lmax (Night)	45.2
Lmin (Day)		47.1		Lmin (Night)	41.8
Leq (Day)		52.1		Leq (Night)	44.0
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	49.0	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	50.4	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	51.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	55.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	56.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	53.8	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	51.8	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	50.4	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	49.2	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	49.0	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	52.8	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	53.3	dB (A) Leq	IS 9989	75





Go Green Mechanisms Pvt.Ltd.

Reporting Date:- 09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring				
Location	Nr. Zarpara Village				
Sampling Date	18.01.2024				
Sampling Instrument	Sound Level Meter	Ldn	50.7		
Lmax (Day)	56.3	Lmax (Night)	45.2		
Lmin (Day)	47.1	Lmin (Night)	41.8		
Leq (Day)	52.1	Leq (Night)	44.0		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	52.9	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	49.5	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	47.3	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	47.1	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	44.9	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	45.2	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	45.1	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	42.9	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	41.8	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	43.4	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	42.9	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	44.2	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana

Approved By
Ramakant Panday
Ramakant Panday



Reporting Date:-09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Navinal Village		
Sampling Date			18.01.2024		
Sampling Instrument		Sound Level Meter		Ldn	54.8
Lmax (Day)		62.4		Lmax (Night)	42.0
Lmin (Day)		41.3		Lmin (Night)	40.4
Leq (Day)		56.5		Leq (Night)	41.1
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	42.3	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	50.4	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	55.6	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	62.4	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	60.4	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	58.5	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	57.8	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	55.4	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	59.0	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	49.4	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	60.5	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	49.5	dB (A) Leq	IS 9989	75





Go Green Mechanisms Pvt.Ltd.

Reporting Date:- 09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Navinal Village			
Sampling Date		18.01.2024			
Sampling Instrument	Sound Level Meter	Ldn	54.8		
Lmax (Day)	62.4	Lmax (Night)	42.0		
Lmin (Day)	41.3	Lmin (Night)	40.4		
Leq (Day)	56.5	Leq (Night)	41.1		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	41.3	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	41.4	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	41.5	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	41.6	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	42.0	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	41.6	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	41.4	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	41.5	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	40.5	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.6	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	40.4	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	40.9	dB (A) Leq	IS 9989	70

Analysis By

Vishal
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Ramakant
Ramakant Panday



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Go Green Mechanisms Pvt.Ltd.

Reporting Date:-09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Project Site			
Sampling Date		29.01.2024			
Sampling Instrument		Sound Level Meter		Ldn	52.7
Lmax (Day)		56.9		Lmax (Night)	50.7
Lmin (Day)		50.2		Lmin (Night)	45.6
Leq (Day)		53.8		Leq (Night)	48.4
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	50.2	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	51.4	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	52.9	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	53.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	54.2	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	53.9	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	52.7	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	51.8	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	54.7	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	55.3	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	56.2	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	56.9	dB (A) Leq	IS 9989	75





Reporting Date:- 09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Project Site			
Sampling Date		29.01.2024			
Sampling Instrument	Sound Level Meter	Ldn	52.7		
Lmax (Day)	56.9	Lmax (Night)	50.7		
Lmin (Day)	50.2	Lmin (Night)	45.6		
Leq (Day)	53.8	Leq (Night)	48.4		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	54.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	53.1	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	52.2	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	51.9	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	50.7	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	50.1	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	49.7	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	48.3	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	47.2	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	46.3	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	45.6	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	46.7	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana

Approved By
Ramakant Panday
Ramakant Panday



Reporting Date:-09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr.Shiracha Village		
Sampling Date			29.01.2024		
Sampling Instrument		Sound Level Meter		Ldn	57.1
Lmax (Day)		62.7		Lmax (Night)	53.2
Lmin (Day)		52.4		Lmin (Night)	47.2
Leq (Day)		58.5		Leq (Night)	50.8
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	50.3	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	52.4	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	53.7	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	55.8	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	56.7	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	57.8	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	59.3	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	60.2	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	62.7	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	61.9	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	60.3	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	59.7	dB (A) Leq	IS 9989	65





Go Green Mechanisms Pvt.Ltd.

Reporting Date:- 09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr.Shiracha Village			
Sampling Date		29.01.2024			
Sampling Instrument	Sound Level Meter	Ldn	57.1		
Lmax (Day)	62.7	Lmax (Night)	53.2		
Lmin (Day)	52.4	Lmin (Night)	47.2		
Leq (Day)	58.5	Leq (Night)	50.8		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	58.3	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	57.2	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	56.2	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	55.6	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	53.2	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	52.7	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	51.9	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	50.1	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	50.3	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	49.7	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	47.2	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	48.3	dB (A) Leq	IS 9989	55

Analysis By
Vishal
Vishal Makwana

Approved By
Ramakant Panday
Ramakant Panday



Reporting Date:-09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Navinal Village		
Sampling Date			29.01.2024		
Sampling Instrument		Sound Level Meter	Ldn	58.8	
Lmax (Day)		65.7	Lmax (Day)	53.3	
Lmin (Day)		52.3	Lmin (Day)	45.2	
Leq (Day)		60.4	Leq (Day)	49.2	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	52.3	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	53.7	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	54.7	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	55.6	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	57.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	58.9	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	59.3	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	60.2	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	61.3	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	62.7	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	63.4	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	65.7	dB (A) Leq	IS 9989	75



Reporting Date:- 09.02.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Navinal Village		
Sampling Date			29.01.2024		
Sampling Instrument		Sound Level Meter	Ldn	58.8	
Lmax (Day)		65.7	Lmax (Day)	53.3	
Lmin (Day)		52.3	Lmin (Day)	45.2	
Leq (Day)		60.4	Leq (Day)	49.2	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	62.3	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	61.0	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	59.7	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	56.2	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	53.3	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	50.4	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	48.3	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	45.4	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	45.2	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	47.2	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	48.0	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	49.4	dB (A) Leq	IS 9989	70

Analysis By
Vishal
Vishal Makwana



Approved By
Ramakant Panday
-Ramakant Panday

Ground Water Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 09.02.2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited						
Sample Type	Water							
Sample Quantity	6 L							
Date of Sampling	29.01.2024							
Analysis Period	31.01.2024 - 08.02.2024							
Sl. No.	Parameter	Unit	Location			Test Method	IS 10500:2012	
			Novinal Village (BW)	Siracha village (BW)	Zarpara Village (BW)		AL	PL
1.	pH@25 °C	-	7.90	7.62	8.06	IS 3025-Part11	6.5-8.5	No relaxation
2.	Turbidity	NTU	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	1	5
3.	Total Dissolved Solids	mg/L	2396.0	2014.0	3025.0	APHA23rd Edn(2540 C)	500	2000
4.	Total Hardness as CaCO3	mg/L	348.0	168.0	192.0	APHA23rd Edn(2340 C)	200	600
5.	Alkalinity as CaCO3	mg/L	386.00	394.00	468.00	APHA23rd Edn (2230B)	200	600
6.	Calcium as Ca	mg/L	60.92	30.46	33.67	APHA23rdEdn (3500Ca B)	75	200
7.	Chloride	mg/L	1074.67	829.74	1324.59	IS 3025-Part 32	250	1000
8.	Sulphate	mg/L	85.78	122.76	88.74	APHA23rdEdn (4500SO ₄ E)	200	400
9.	Nitrate	mg/L	1.53	0.58	2.16	APHA23rdEdn (4500NO ₃ B)	45	No relaxation
10.	Iron	mg/L	0.086	0.089	0.082	APHA 23rdEdn(3120 B)	0.3	No relaxation
11.	Fluoride	mg/L	0.59	0.48	0.57	APHA 23rdEdn(4500 F D)	1	1.5
12.	Hexavalent Chromium as Cr6+	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	APHA 23rdEdn(3500Cr B)	NS	NS



13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA 23rdEdn(3120 B)	5	15
14.	Magnesium (Mg)	mg/L	47.63	22.36	26.24	APHA23rdEdn(3500MgB)	30	100
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn(4500Cl B)	0.2	1.0
16.	Colour	CU	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	IS 3025-Part 4	5	15
17.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025-Part 5	Agreeable	Agreeable
18.	Temperature	°C	25.5	26.3	25.1	APHA23rdEdn (2550B)	NS	NS
19.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025-Part7,8	Agreeable	Agreeable
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	IS 3025- Part 43	0.001	0.002
21.	Cyanide	mg/L	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	GGMPL/SOP/W/43	0.05	No relaxation
22.	Aluminium (Al)	mg/L	0.031	0.03	0.026	APHA23rdEdn (3120 B)	0.03	0.2
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	0.05
24.	Boron (B)	mg/L	0.731	0.749	1.014	APHA23rdEdn (3120 B)	0.5	1.0
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.003	No relaxation
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.05	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.1	0.3
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	0.001	No relaxation
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation



Go Green Mechanisms Pvt.Ltd.

31.	Anionic Surface Active Agents	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (5540 C)	0.2	1.0
32.	E.coli	-	Absent	Absent	Absent	IS 1622	Absent	-
33.	Total Coliform	-	Absent	Absent	Absent	IS 1622	Absent	-

BQL - Below Quantification Limit

Analysis By
Vishal
Vishal Makwana



Approved By
Ramakant
Ramakant Pandey

.....END.....

Surface Water Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: - 09.02.2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited			
Sample Type	Water				
Sample Quantity	6 L				
Date of Sampling	29.01.2024				
Analysis Period	31.01.2024 – 08.02.2024				
Sl. No.	Parameter	Unit	Location	Test Method	Norms
			Nr. Kotadi Creck (SW))		
1.	pH@25 °C	-	7.94	IS 3025-Part11	-
2.	Turbidity	NTU	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	-
3.	Total Dissolved Solids	mg/L	31452.0	APHA23rd Edn(2540 C)	-
4.	Total Hardness as CaCO ₃	mg/L	7080.0	APHA23rd Edn(2340 C)	-
5.	Alkalinity as CaCO ₃	mg/L	146.0	APHA23rd Edn (2230B)	-
6.	Calcium as Ca	mg/L	400.80	APHA23rdEdn (3500Ca B)	-
7.	Chloride	mg/L	17319.63	IS 3025-Part 32	-
8.	Sulphate	mg/L	2011.44	APHA23rdEdn (4500SO ₄ E)	-
9.	Nitrate	mg/L	1.63	APHA23rdEdn (4500NO ₃ B)	-
10.	Iron	mg/L	1.528	APHA 23rdEdn (3120 B)	-



11.	Fluoride	mg/L	1.24	APHA 23rdEdn (4500 F D)	-
12.	Hexavalent Chromium as Cr6+	mg/L	BQL (QL=0.01)	APHA 23rdEdn (3500Cr B)	-
13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	APHA 23rdEdn (3120 B)	-
14.	Magnesium (Mg)	mg/L	1477.44	APHA23rdEdn (3500MgB)	-
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	APHA23rdEdn (4500 Cl B)	-
16.	Colour	CU	BQL (QL=1)	IS 3025- Part 4	-
17.	Odour	-	Agreeable	IS 3025 - Part 5	-
18.	Temperature	°C	28.0	APHA23rdEdn (2550B)	-
19.	Taste	-	Agreeable	IS 3025-Part7,8	-
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	IS 3025-Part 43	-
21.	Cyanide	mg/L	BQL (QL=0.025)	GGMPL/SOP/W/43	-
22.	Aluminium (Al)	mg/L	0.561	APHA23rdEdn (3120 B)	-
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	APHA23rdEdn (3120 B)	-
24.	Boron (B)	mg/L	2.582	APHA23rdEdn (3120 B)	-
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	APHA23rdEdn (3120 B)	-
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	APHA23rdEdn (3120 B)	-
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	APHA23rdEdn (3120 B)	-
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	APHA23rdEdn (3120 B)	-
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	-
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	APHA23rdEdn (3120 B)	-





Go Green Mechanisms Pvt.Ltd.

31.	Anionic Surface Active Agents	mg/L	BQL (QL=0.05)	APHA23rdEdn (5540 C)	-
32.	E.coli	-	Absent	IS 1622	-
33.	Total Coliform	-	Present	IS 1622	-

BQL - Below Quantification Limit

Analysis By
Vishal
Vishal Makwana



Approved By
Ramakant
Ramakant Pandey

.....
END
.....

Report Issued to:

Kutch Copper Limited

**At & PO: Mundra, Kutch 370421
Gujarat.**

ENVIRONMENTAL MONTHLY MONITORING REPORT

MONTH OF FEB'24



Go Green Mechanisms Pvt. Ltd.



Contact: 7069072008/10

Email: lab@gogreenmechanisms.com

Ref: GGMPL2024/OT114C dated 14.03.2024

To,
Kutch Copper Limited
At & Po: Mundra, Kutch 370421 Gujarat

Subject: Submission of Monthly Report for the Kutch Copper Limited

Respected Sir,

This is to inform you that we hereby are submitting the Monitoring Report for the Month of February 2024.

Below given is the Sample Quantity along with Sample type for your reference.

Sr. No.	Description	Total Number of Reports/Samples
1.	Ambient Air Reports	36
2.	Ambient Noise Reports	06
3.	Ground Water Reports	03
4.	Surface Water Report	01
5.	Soil	01

Thanks and Regards



For Go Green Mechanisms Pvt Ltd



Ambient Air Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Project Site											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1	01.02.2024	02.02.2024	71.11	40.83	11.75	27.82	-	-	-	-	-	-	-
2	05.02.2024	06.02.2024	72.15	36.24	15.55	26.77	-	-	-	-	-	-	-
3	08.02.2024	09.02.2024	68.27	34.16	12.53	23.88	-	-	-	-	-	-	-



4.	12.02.2024	13.02.2024	70.66	39.58	11.02	24.73	-	-	-	-	-	-	-	-
5	15.02.2024	16.02.2024	67.72	35.83	14.49	25.43	-	-	-	-	-	-	-	-
6	19.02.2024	20.02.2024	66.77	32.91	12.23	27.03	-	-	-	-	-	-	-	-
7	22.02.2024	23.02.2024	69.04	35.83	13.46	27.56	-	-	-	-	-	-	-	-
8.	26.02.2024	27.02.2024	71.43	36.66	12.23	23.56	-	-	-	-	-	-	-	-
9.	29.02.2024	01.03.2024	71.11	40.83	11.75	27.82	16.15	15.67	0.40	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
AVERAGE			69.81	36.98	12.78	26.07	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makvana



Approved By

Ramakant
Ramakant Panday

END

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Shiracha Village												
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SO P/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date												
1	01.02.2024	02.02.2024	64.61	36.66	12.83	23.10	-	-	-	-	-	-	-	-
2	05.02.2024	06.02.2024	62.83	33.74	14.10	25.20	-	-	-	-	-	-	-	-
3.	08.02.2024	09.02.2024	65.51	35.83	11.49	21.23	-	-	-	-	-	-	-	-




4	12.02.2024	13.02.2024	62.57	34.58	13.29	20.06	-	-	-	-	-	-	-	-
5	15.02.2024	16.02.2024	65.26	33.74	14.10	20.06	-	-	-	-	-	-	-	-
6	19.02.2024	20.02.2024	67.56	36.66	11.79	23.36	-	-	-	-	-	-	-	-
7	22.02.2024	23.02.2024	62.89	32.49	13.25	21.70	-	-	-	-	-	-	-	-
8.	26.02.2024	27.02.2024	59.92	31.66	11.01	22.40	-	-	-	-	-	-	-	-
9.	29.02.2024	01.03.2024	64.61	36.66	12.83	23.10	13.98	15.67	0.39	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
AVERAGE			63.97	34.67	12.74	22.24	-	-	-	-	-	-	-	-

Analysis By


Vishal Makwana



Approved By


Ramakant Panday

.....END.....



Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited												
On Site 24 Hourly Monitoring Results														
Sample Type		AMBIENT AIR QUALITY MONITORING												
Location Name		Navinal Village												
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₂	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part-11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date		Sampling End Date											
1	01.02.2024	02.02.2024	59.34	32.91	12.49	20.53	-	-	-	-	-	-	-	-
2	05.02.2024	06.02.2024	63.37	33.74	14.05	21.52	-	-	-	-	-	-	-	-
3	08.02.2024	09.02.2024	62.33	31.24	11.14	19.68	-	-	-	-	-	-	-	-



4	12.02.2024	13.02.2024	62.03	32.91	9.84	19.95	-	-	-	-	-	-	-	-
5	15.02.2024	16.02.2024	65.41	34.58	12.93	20.21	-	-	-	-	-	-	-	-
6	19.02.2024	20.02.2024	63.29	33.33	10.83	18.90	-	-	-	-	-	-	-	-
7	22.02.2024	23.02.2024	59.65	33.74	12.08	21.26	-	-	-	-	-	-	-	-
8	26.02.2024	27.02.2024	64.84	32.08	13.28	16.80	-	-	-	-	-	-	-	-
9.	29.02.2024	01.03.2024	59.34	32.91	12.49	20.53	13.36	14.25	0.28	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
AVERAGE			62.18	33.05	12.12	19.93	-	-	-	-	-	-	-	-

Analysis By


Vishal Makwana



Approved By


Ramakant Panday

.....END.....



Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited											
On Site 24 Hourly Monitoring Results													
Sample Type		AMBIENT AIR QUALITY MONITORING											
Location Name		Zarapara Village											
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³
	Test Method	IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6
	Sampling Start Date	Sampling End Date											
1	01.02.2024	02.02.2024	68.70	36.24	12.49	22.86	-	-	-	-	-	-	-
2	05.02.2024	06.02.2024	68.34	37.49	13.31	24.03	-	-	-	-	-	-	-
3	08.02.2024	09.02.2024	64.24	35.83	12.14	22.40	-	-	-	-	-	-	-



4	12.02.2024	13.02.2024	65.01	34.58	14.69	24.15	-	-	-	-	-	-	-	-
5	15.02.2024	16.02.2024	66.24	36.66	11.14	20.47	-	-	-	-	-	-	-	-
6	19.02.2024	20.02.2024	67.42	34.16	13.28	23.80	-	-	-	-	-	-	-	-
7	22.02.2024	23.02.2024	67.21	34.99	12.47	25.20	-	-	-	-	-	-	-	-
8.	26.02.2024	27.02.2024	63.88	33.33	13.63	23.62	-	-	-	-	-	-	-	-
9.	29.02.2024	01.03.2024	68.70	36.24	12.49	22.86	14.60	15.67	0.31	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)
AVERAGE			66.64	35.50	12.85	23.26	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Ramakant
Ramakant Panday

.....END.....

Ambient Noise Report

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Navinal Village		
Sampling Date			05.02.2024		
Sampling Instrument		Sound Level Meter		Ldn	56.6
Lmax (Day)		64.2		Lmax (Night)	45.8
Lmin (Day)		40.6		Lmin (Night)	38.6
Leq (Day)		58.3		Leq (Night)	42.6
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	44.1	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	52.2	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	57.4	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	64.2	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	62.2	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	60.3	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	59.6	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	57.2	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	60.8	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	51.2	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	62.3	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	51.3	dB (A) Leq	IS 9989	75



Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

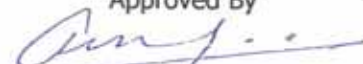
Sample Type		Ambient Noise Monitoring			
Location		Navinal Village			
Sampling Date		05.02.2024			
Sampling Instrument	Sound Level Meter	Ldn	56.6		
Lmax (Day)	64.2	Lmax (Night)	45.8		
Lmin (Day)	40.6	Lmin (Night)	38.6		
Leq (Day)	58.3	Leq (Night)	42.6		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	48.3	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	47.3	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	42.8	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	40.6	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	43.5	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	41.7	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	44.2	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	39.3	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	38.6	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	40.1	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	42.2	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	45.8	dB (A) Leq	IS 9989	70

Analysis By


Vishal Makwana



Approved By


Ramakant Panday

.....
END

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr.Shiracha Village			
Sampling Date		05.02.2024			
Sampling Instrument	Sound Level Meter	Ldn	54.6		
Lmax (Day)	60.3	Lmax (Night)	55.9		
Lmin (Day)	47.9	Lmin (Night)	40.9		
Leq (Day)	56.1	Leq (Night)	47.6		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	47.9	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	50.0	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	51.3	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	53.4	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	54.3	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	55.4	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	56.9	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	57.8	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	60.3	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	59.5	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	57.9	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	57.3	dB (A) Leq	IS 9989	65



Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr.Shiracha Village			
Sampling Date		05.02.2024			
Sampling Instrument	Sound Level Meter	Ldn	54.6		
Lmax (Day)	60.3	Lmax (Night)	55.9		
Lmin (Day)	47.9	Lmin (Night)	40.9		
Leq (Day)	56.1	Leq (Night)	47.6		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	55.9	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	54.8	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	53.8	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	53.2	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	50.8	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	50.3	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	49.5	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	44.7	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	40.9	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	45.3	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	44.8	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	45.9	dB (A) Leq	IS 9989	55

Analysis By
Vishal
Vishal Makwana



Approved By
Ramakant Panday
Ramakant Panday

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Project Site		
Sampling Date			27.02.2024		
Sampling Instrument		Sound Level Meter		Ldn	67.1
Lmax (Day)		73.0		Lmax (Night)	64.2
Lmin (Day)		59.6		Lmin (Night)	56.7
Leq (Day)		68.5		Leq (Night)	60.6
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	59.6	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	62.3	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	63.7	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	70.5	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	72.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	70.7	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	65.9	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	64.5	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	63.1	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	68.9	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	73.0	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	70.4	dB (A) Leq	IS 9989	75



Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Project Site			
Sampling Date		27.02.2024			
Sampling Instrument	Sound Level Meter	Ldn	67.1		
Lmax (Day)	73.0	Lmax (Night)	64.2		
Lmin (Day)	59.6	Lmin (Night)	56.7		
Leq (Day)	68.5	Leq (Night)	60.6		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	68.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	67.5	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	66.9	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	65.4	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	64.2	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	62.9	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	62.0	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	57.7	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	54.6	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	56.7	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	58.7	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	59.2	dB (A) Leq	IS 9989	70

Analysis By

Vishal Makwana

Vishal Makwana



Approved By

Ramakant Panday

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END

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Zarapara Village			
Sampling Date		27.02.2024			
Sampling Instrument	Sound Level Meter	Ldn	52.3		
Lmax (Day)	58.3	Lmax (Night)	46.9		
Lmin (Day)	48.6	Lmin (Night)	41.5		
Leq (Day)	53.8	Leq (Night)	44.5		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	51.0	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	52.4	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	53.8	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	57.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	58.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	53.6	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	52.1	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	51.9	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	51.2	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	51.0	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	54.8	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	55.3	dB (A) Leq	IS 9989	75



Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Zarapara Village			
Sampling Date		27.02.2024			
Sampling Instrument	Sound Level Meter	Ldn	52.3		
Lmax (Day)	58.3	Lmax (Night)	46.9		
Lmin (Day)	48.6	Lmin (Night)	41.5		
Leq (Day)	53.8	Leq (Night)	44.5		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	54.9	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	51.5	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	49.3	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	48.6	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	46.9	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	45.1	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	44.9	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	43.2	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	42.7	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	41.5	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	43.6	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	45.9	dB (A) Leq	IS 9989	70

Analysis By
Vishal Makwana
Vishal Makwana



Approved By
Ramakant Panday
Ramakant Panday



Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT


Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring				
Location	Navinal Village				
Sampling Date	29.02.2024				
Sampling Instrument	Sound Level Meter	Ldn	56.2		
Lmax (Day)	62.2	Lmax (Night)	52.2		
Lmin (Day)	52.5	Lmin (Night)	45.4		
Leq (Day)	57.7	Leq (Night)	49.0		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	58.8	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	55.4	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	53.2	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	52.5	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	50.8	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	49.0	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	48.8	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	47.1	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	46.6	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	45.4	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	47.5	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	52.2	dB (A) Leq	IS 9989	70

Analysis By


Vishal Makwana

Approved By


Ramakant Panday

END

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Navinal Village		
Sampling Date			29.02.2024		
Sampling Instrument		Sound Level Meter	Ldn	56.2	
Lmax (Day)		62.2	Lmax (Night)	52.2	
Lmin (Day)		52.5	Lmin (Night)	45.4	
Leq (Day)		57.7	Leq (Night)	49.0	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	54.9	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	56.3	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	57.7	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	61.6	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	62.2	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	57.5	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	56.0	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	55.8	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	55.1	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	54.9	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	58.7	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	59.2	dB (A) Leq	IS 9989	75





Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT


Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Siracha Village		
Sampling Date			29.02.2024		
Sampling Instrument		Sound Level Meter	Ldn	58.7	
Lmax (Day)		64.8	Lmax (Night)	52.8	
Lmin (Day)		51.4	Lmin (Night)	40.5	
Leq (Day)		60.3	Leq (Night)	48.8	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	51.4	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	54.1	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	55.5	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	62.3	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	64.1	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	62.5	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	57.7	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	56.3	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	54.9	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	60.7	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	64.8	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	62.2	dB (A) Leq	IS 9989	65



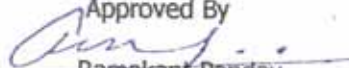
Reporting Date:06.03.2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Siracha Village		
Sampling Date			29.02.2024		
Sampling Instrument		Sound Level Meter		Ldn	58.7
Lmax (Day)		64.8		Lmax (Night)	52.8
Lmin (Day)		51.4		Lmin (Night)	40.5
Leq (Day)		60.3		Leq (Night)	48.8
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	60.5	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	59.3	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	58.7	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	57.2	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	52.8	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	51.5	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	50.6	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	46.3	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	43.2	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	40.5	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	44.9	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	47.0	dB (A) Leq	IS 9989	55

Analysis By

 Vishal Makwana



Approved By

 Ramakant Panday

Ground Water Report

Reporting Date:06.03.2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited						
Sample Type		Water						
Sample Quantity		6 L						
Date of Sampling		27.02.2024						
Analysis Period		01.03.2024 to 07.03.2024						
Sl. No.	Parameter	Unit	Location			Test Method	IS 10500:2012	
			Novinal Village (BW)	Siracha village (BW)	Zarapara Village (BW)		AL	PL
1.	pH@25 °C	-	7.76	7.73	7.86	IS 3025-Part11	6.5-8.5	No relaxation
2.	Turbidity	NTU	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	1	5
3.	Total Dissolved Solids	mg/L	2452.0	2007.0	2943.0	APHA23rd Edn(2540 C)	500	2000
4.	Total Hardness as CaCO ₃	mg/L	396.0	194.0	274.0	APHA23rd Edn(2340 C)	200	600
5.	Alkalinity as CaCO ₃	mg/L	368.00	388.00	432.00	APHA23rd Edn (2230B)	200	600
6.	Calcium as Ca	mg/L	72.14	34.47	47.29	APHA23rdEdn (3500Ca B)	75	200
7.	Chloride	mg/L	1004.69	959.70	1249.61	IS 3025-Part 32	250	1000
8.	Sulphate	mg/L	87.62	96.53	92.57	APHA23rdEdn (4500SO ₄ E)	200	400
9.	Nitrate	mg/L	2.42	0.82	2.04	APHA23rdEdn (4500NO ₃ B)	45	No relaxation
10.	Iron	mg/L	0.182	0.092	0.107	APHA 23rdEdn(3120 B)	0.3	No relaxation
11.	Fluoride	mg/L	0.74	0.56	0.67	APHA 23rdEdn(4500 F D)	1	1.5
12.	Hexavalent Chromium as Cr ⁶⁺	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	APHA 23rdEdn(3500Cr B)	NS	NS



13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA 23rdEdn(3120 B)	5	15
14.	Magnesium (Mg)	mg/L	52.49	26.24	37.91	APHA23rdEdn(3500MgB)	30	100
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn(4500Cl B)	0.2	1.0
16.	Colour	CU	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	IS 3025-Part 4	5	15
17.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025-Part 5	Agreeable	Agreeable
18.	Temperature	°C	27.6	27.8	27.9	APHA23rdEdn (2550B)	NS	NS
19.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025-Part7,8	Agreeable	Agreeable
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	IS 3025- Part 43	0.001	0.002
21.	Cyanide	mg/L	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	GGMPL/SOP/W/43	0.05	No relaxation
22.	Aluminium (Al)	mg/L	0.036	0.027	0.032	APHA23rdEdn (3120 B)	0.03	0.2
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	0.05
24.	Boron (B)	mg/L	0.567	0.628	0.867	APHA23rdEdn (3120 B)	0.5	1.0
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.003	No relaxation
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.05	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.1	0.3
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	0.001	No relaxation
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation



31.	Anionic Surface Active Agents	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (5540 C)	0.2	1.0
32.	E.coli	-	Absent	Absent	Absent	IS 1622	Absent	-
33.	Total Coliform	-	Absent	Absent	Absent	IS 1622	Absent	-

BQL - Below Quantification Limit

Analysis By


Vishal Makwana



Approved By


Ramakant Panday

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END

Surface Water Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited			
Sample Type	Water				
Sample Quantity	6 L				
Date of Sampling	27.02.2024				
Analysis Period	01.03.2024 to 07.03.2024				
Sl. No.	Parameter	Unit	Location	Test Method	Norms
			Nr. Kotadi Creck (SW)		
1.	pH@25 °C	-	7.82	IS 3025-Part11	-
2.	Turbidity	NTU	BQL(QL=0.1)	APHA 23 rd Edn(2130 B)	-
3.	Total Dissolved Solids	mg/L	31052.0	APHA23rd Edn(2540 C)	-
4.	Total Hardness as CaCO ₃	mg/L	6760.0	APHA23rd Edn(2340 C)	-
5.	Alkalinity as CaCO ₃	mg/L	168.00	APHA23rd Edn (2230B)	-
6.	Calcium as Ca	mg/L	496.99	APHA23rdEdn (3500Ca B)	-
7.	Chloride	mg/L	16944.75	IS 3025-Part 32	-
8.	Sulphate	mg/L	1940.40	APHA23rdEdn (4500SO ₄ E)	-
9.	Nitrate	mg/L	2.07	APHA23rdEdn (4500NO ₃ B)	-
10.	Iron	mg/L	1.08	APHA 23rdEdn (3120 B)	-



11.	Fluoride	mg/L	1.46	APHA 23rdEdn (4500 F D)	-
12.	Hexavalent Chromium as Cr6+	mg/L	BQL(QL=0.01)	APHA 23rdEdn (3500Cr B)	-
13.	Zinc (Zn)	mg/L	BQL(QL=0.02)	APHA 23rdEdn (3120 B)	-
14.	Magnesium (Mg)	mg/L	1341.36	APHA23rdEdn (3500MgB)	-
15.	Residual Chlorine	mg/L	BQL(QL=0.05)	APHA23rdEdn (4500 Cl B)	-
16.	Colour	CU	BQL(QL=1)	IS 3025- Part 4	-
17.	Odour	-	Agreeable	IS 3025 - Part 5	-
18.	Temperature	°C	27.7	APHA23rdEdn (2550B)	-
19.	Taste	-	Agreeable	IS 3025-Part7,8	-
20.	Phenolic Compounds	mg/L	BQL(QL=0.001)	IS 3025-Part 43	-
21.	Cyanide	mg/L	BQL(QL=0.025)	GGMPL/SOP/W/43	-
22.	Aluminium (Al)	mg/L	0.428	APHA23rdEdn (3120 B)	-
23.	Arsenic (As)	mg/L	BQL(QL=0.005)	APHA23rdEdn (3120 B)	-
24.	Boron (B)	mg/L	2.867	APHA23rdEdn (3120 B)	-
25.	Cadmium (Cd)	mg/L	BQL(QL=0.002)	APHA23rdEdn (3120 B)	-
26.	Copper (Cu)	mg/L	BQL(QL=0.02)	APHA23rdEdn (3120 B)	-
27.	Lead (Pb)	mg/L	BQL(QL=0.005)	APHA23rdEdn (3120 B)	-
28.	Manganese (Mn)	mg/L	BQL(QL=0.05)	APHA23rdEdn (3120 B)	-
29.	Mercury (Hg)	mg/L	BQL(QL=0.0005)	APHA23rdEdn (3112 B)	-
30.	Selenium (Se)	mg/L	BQL(QL=0.005)	APHA23rdEdn (3120 B)	-






Go Green Mechanisms Pvt.Ltd.

31.	Anionic Surface Active Agents	mg/L	BQL(QL=0.05)	APHA23rdEdn (5540 C)	-
32.	E.coli	-	Absent	IS 1622	-
33.	Total Colliform	-	Present	IS 1622	-

BQL - Below Quantification Limit

Analysis By

Vishal Makwana



Approved By

Ramakant Panday

END

Soil Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date:06.03.2024

SOIL ANALYSIS REPORT

Company Name		Kutch Copper Limited			
Sample Type		Soil			
Sample Quantity		2 kg			
Date of Sampling		27.02.2024			
Analysis Period		01.03.2024 to 07.03.2024			
Sl. No.	Parameter	Unit	Test Method	Location	
				Pond Area	Green Area
1.	Molybdenum	mg/kg	USEPA Method 3051A	1.45	1.4634
2.	Calcium as Ca	%	USEPA Method 3051A	0.16	0.1663
3.	Magnesium as Mg	%	USEPA Method 3051A	0.14	0.1416
4.	Zinc as Zn	%	USEPA Method 3051A	0.0008	0.0008
5.	Manganese as Mn	%	USEPA Method 3051A	0.0013	0.0013
6.	Potassium as K	%	USEPA Method 3051A	0.0094	0.0095
7.	Iron as Fe	%	USEPA Method 3051A	0.0024	0.0025
8.	Boron as B	%	USEPA Method 3051A	0.0007	0.0005
9.	Chloride as Cl	%	USEPA Method 3051A	0.0305	0.0320
10.	Nitrogen as N	%	USEPA Method 3051A	0.0182	0.0177



11.	Soluble Sulphate	%	IS 2720- Part 27	0.0023	0.0027
12.	Phosphorus as P	%	USEPA Method 3051A	0.0005	0.0006

BQL - Below Quantification Limit

Analysis By



Vishal Makwana



Approved By



Ramakant Panday

.....END.....

Report Issued to:

Kutch Copper Limited

**At & PO: Mundra, Kutch 370421
Gujarat.**

**ENVIRONMENTAL MONTHLY MONITORING REPORT
MONTH OF MAR'24**



Go Green Mechanisms Pvt. Ltd.



Contact: 7069072008/10

Email: lab@gogreenmechanisms.com

Ref: GGMPL2024/OTW01C dated 13.04.2024

To,
Kutch Copper Limited
At & Po: Mundra, Kutch 370421 Gujarat

Subject: Submission of Monthly Report for the Kutch Copper Limited

Respected Sir,

This is to inform you that we hereby are submitting the Monitoring Report for the Month of March 2024.

Below given is the Sample Quantity along with Sample type for your reference.

Sr. No.	Description	Total Number of Reports/Samples
1.	Ambient Air Reports	32
2.	Ambient Noise Reports	06
3.	Ground Water Reports	03
4.	Surface Water Report	01

Thanks and Regards



For Go Green Mechanisms Pvt Ltd



Ambient Air Report

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited													
On Site 24 Hourly Monitoring Results															
Sample Type		AMBIENT AIR QUALITY MONITORING													
Location Name		Project Site													
Sr. No.	Parameters	PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As	Hg	
	Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	
	Test Method	IS 5182-Part23	GGMPL/SO P/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4	Method IO-3.4	
	NAAQ Standards	100	60	80	80	100	400	4	5	1	1	20	6		
	Sampling Start Date	Sampling End Date													
1	04.03.2024	05.03.2024	54.70	31.66	13.21	24.43	-	-	-	-	-	-	-	-	
2	07.03.2024	08.03.2024	58.23	34.99	16.92	23.51	-	-	-	-	-	-	-	-	
3	11.03.2024	12.03.2024	64.81	32.49	10.78	21.78	-	-	-	-	-	-	-	-	



4.	14.03.2024	15.03.2024	69.95	36.24	14.58	24.43	-	-	-	-	-	-	-	-	-
5	18.03.2024	19.03.2024	73.75	37.08	12.25	24.89	19.20	14.37	0.35	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)	BQL (QL=1)
6	21.03.2024	22.03.2024	70.67	32.91	13.64	23.74	-	-	-	-	-	-	-	-	-
7	25.03.2024	26.03.2024	69.38	34.58	11.05	25.81	-	-	-	-	-	-	-	-	-
8.	28.03.2024	29.03.2024	67.46	32.49	13.35	20.97	-	-	-	-	-	-	-	-	-
AVERAGE			68.62	34.06	13.22	23.69	-	-	-	-	-	-	-	-	-

Analysis By


Vishal Makvana



Approved By


Ramakant Panday

.....
END.....
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Go Green Mechanisms Pvt.Ltd.

Reporting Date:05/04/2024

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited													
On Site 24 Hourly Monitoring Results															
Sample Type		AMBIENT AIR QUALITY MONITORING													
Location Name		Shiracha Village													
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As	Hg
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SO P/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6	
	Sampling Start Date		Sampling End Date												
1	04.03.2024	05.03.2024	68.73	35.83	12.70	27.48	-	-	-	-	-	-	-	-	-
2	07.03.2024	08.03.2024	63.67	30.83	13.64	21.23	-	-	-	-	-	-	-	-	-
3.	11.03.2024	12.03.2024	67.09	37.91	12.28	24.73	-	-	-	-	-	-	-	-	-



Go Green Mechanisms Pvt.Ltd.

4	14.03.2024	15.03.2024	64.20	36.24	14.30	22.57	-	-	-	-	-	-	-	-	-
5	18.03.2024	18.03.2024	69.27	34.58	12.47	20.76	17.03	14.37	0.39	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)	BQL (QL=1)
6	21.03.2024	22.03.2024	65.30	31.66	14.38	24.96	-	-	-	-	-	-	-	-	-
7	25.03.2024	26.03.2024	62.40	32.91	12.88	25.20	-	-	-	-	-	-	-	-	-
8	28.03.2024	29.03.2024	66.03	34.99	13.99	22.16	-	-	-	-	-	-	-	-	-
AVERAGE			63.97	34.67	12.74	22.24	-	-	-	-	-	-	-	-	-

Analysis By

 Vishal Makwana



Approved By

 Ramakant Panday

.....END.....

AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited														
On Site 24 Hourly Monitoring Results																
Sample Type		AMBIENT AIR QUALITY MONITORING														
Location Name		Zarapara Village														
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As	Hg	
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SO P/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6		
	Sampling Start Date		Sampling End Date													
1	04.03.2024	05.03.2024	67.37	33.33	11.65	24.43	-	-	-	-	-	-	-	-	-	
2	07.03.2024	08.03.2024	64.07	36.66	13.64	23.33	-	-	-	-	-	-	-	-	-	
3	11.03.2024	12.03.2024	71.11	37.08	14.33	25.41	-	-	-	-	-	-	-	-	-	



4	14.03.2024	15.03.2024	63.17	32.49	12.94	22.30	-	-	-	-	-	-	-	-	-
5	18.03.2024	19.03.2024	66.45	34.99	14.55	26.45	17.34	18.68	0.412	BQL (QL=2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)	BQL (QL=1)
6	21.03.2024	22.03.2024	70.17	36.24	13.51	27.74	-	-	-	-	-	-	-	-	-
7	25.03.2024	26.03.2024	65.60	30.41	15.26	24.89	-	-	-	-	-	-	-	-	-
8.	28.03.2024	29.03.2024	67.29	36.66	16.58	27.22	-	-	-	-	-	-	-	-	-
AVERAGE			66.91	34.73	14.06	25.22	-	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Ramakant
Ramakant Panday

END



AMBIENT AIR QUALITY ANALYSIS REPORT

Company Name		Kutch Copper Limited													
On Site 24 Hourly Monitoring Results															
Sample Type		AMBIENT AIR QUALITY MONITORING													
Location Name		Navinal Village													
Sr. No.	Parameters		PM (<10)	PM (<2.5)	SO ₂	NO ₂	O ₃	NH ₃	CO	Benzene	B@P	Pb	Ni	As	Hg
	Unit		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
	Test Method		IS 5182-Part23	GGMPL/SOP/AA/60	IS 5182-Part 2	IS 5182-Part 6	IS 5182-Part 9	GGMPL/SOP/AA/62	IS 5182-Part 10	IS 5182-Part- 11	IS 5182-Part -12	Method IO-3.4	Method IO-3.4	Method IO-3.4	Method IO-3.4
	NAAQ Standards		100	60	80	80	100	400	4	5	1	1	20	6	
	Sampling Start Date	Sampling End Date													
1	04.03.2024	05.03.2024	62.77	32.08	13.53	18.90	-	-	-	-	-	-	-	-	-
2	07.03.2024	08.03.2024	59.99	30.41	11.12	22.30	-	-	-	-	-	-	-	-	-
3	11.03.2024	12.03.2024	66.60	35.41	12.28	23.08	-	-	-	-	-	-	-	-	-



4	14.03.2024	15.03.2024	64.79	31.24	14.94	25.12	-	-	-	-	-	-	-	-	-
5	18.03.2024	19.03.2024	61.51	29.16	10.74	20.22	16.10	15.81	0.38	BQL (QL-2.5)	BQL (QL=0.5)	BQL (QL=0.001)	BQL (QL=5)	BQL (QL=1)	BQL (QL=1)
6	21.03.2024	22.03.2024	62.84	32.91	13.64	24.89	-	-	-	-	-	-	-	-	-
7	25.03.2024	26.03.2024	68.28	35.41	12.88	21.26	-	-	-	-	-	-	-	-	-
8.	28.03.2024	29.03.2024	61.86	30.83	9.15	20.97	-	-	-	-	-	-	-	-	-
AVERAGE			63.58	32.18	12.29	22.09	-	-	-	-	-	-	-	-	-

Analysis By

Vishal
Vishal Makwana



Approved By

Ramakant
Ramakant Panday

.....END.....

Ambient Noise Report

Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Project Site			
Sampling Date		11.03.2024			
Sampling Instrument	Sound Level Meter	Ldn	68.3		
Lmax (Day)	74.2	Lmax (Night)	65.4		
Lmin (Day)	60.8	Lmin (Night)	55.8		
Leq (Day)	69.7	Leq (Night)	61.8		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	60.8	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	63.5	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	64.9	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	71.7	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	73.5	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	71.9	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	67.1	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	65.7	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	64.3	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	70.1	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	74.2	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	71.6	dB (A) Leq	IS 9989	75



Reporting Date: 05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Project Site		
Sampling Date			11.03.2024		
Sampling Instrument		Sound Level Meter	Ldn	68.3	
Lmax (Day)		74.2	Lmax (Night)	65.4	
Lmin (Day)		60.8	Lmin (Night)	55.8	
Leq (Day)		69.7	Leq (Night)	61.8	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	69.9	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	68.7	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	68.1	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	66.6	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	65.4	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	64.1	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	63.2	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	58.9	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	55.8	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	57.9	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	59.9	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	60.4	dB (A) Leq	IS 9989	70

Analysis By

Vishal
Vishal Makwana

Approved By

Ramakant
Ramakant Panday

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END
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Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Navinal Village		
Sampling Date			11.03.2024		
Sampling Instrument		Sound Level Meter		Ldn	59.0
Lmax (Day)		62.4		Lmax (Night)	48.2
Lmin (Day)		41.3		Lmin (Night)	41.0
Leq (Day)		60.7		Leq (Night)	45.0
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	46.5	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	54.6	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	59.8	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	66.6	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	64.6	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	62.7	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	62.0	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	59.6	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	63.2	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	53.6	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	64.7	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	53.7	dB (A) Leq	IS 9989	65



Reporting Date: 05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Navinal Village			
Sampling Date		11.03.2024			
Sampling Instrument	Sound Level Meter	Ldn	59.0		
Lmax (Day)	62.4	Lmax (Night)	48.2		
Lmin (Day)	41.3	Lmin (Night)	41.0		
Leq (Day)	60.7	Leq (Night)	45.0		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	50.7	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	49.7	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	45.2	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	43.0	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	45.9	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	44.1	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	46.6	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	41.7	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	41.0	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	42.5	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	44.6	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	48.2	dB (A) Leq	IS 9989	55

Analysis By
Vishal
Vishal Makwana

Approved By
Ramakant
Ramakant Panday

.....END.....



Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Nr. Zarapara Village		
Sampling Date			21.03.2024		
Sampling Instrument		Sound Level Meter	Ldn	54.0	
Lmax (Day)		56.3	Lmax (Night)	48.6	
Lmin (Day)		47.1	Lmin (Night)	43.2	
Leq (Day)		55.5	Leq (Night)	46.2	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	52.7	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	54.1	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	55.5	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	59.4	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	60.0	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	55.3	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	53.8	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	53.6	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	52.9	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	52.7	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	56.5	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	57.0	dB (A) Leq	IS 9989	75



Reporting Date: 05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Nr. Zarapara Village			
Sampling Date		21.03.2024			
Sampling Instrument	Sound Level Meter	Ldn	54.0		
Lmax (Day)	56.3	Lmax (Night)	48.6		
Lmin (Day)	47.1	Lmin (Night)	43.2		
Leq (Day)	55.5	Leq (Night)	46.2		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	56.6	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	53.2	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	51.0	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	50.3	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	48.6	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	46.8	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	46.6	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	44.9	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	44.4	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	43.2	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	45.3	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	47.6	dB (A) Leq	IS 9989	70

Analysis By
Vishal Makwana
Vishal Makwana

Approved By
Ramakant Panday
Ramakant Panday

.....END.....



Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Siracha Village		
Sampling Date			21.03.2024		
Sampling Instrument		Sound Level Meter	Ldn	57.3	
Lmax (Day)		63.0	Lmax (Night)	58.6	
Lmin (Day)		50.6	Lmin (Night)	43.6	
Leq (Day)		58.8	Leq (Night)	50.3	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	50.6	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	52.7	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	54.0	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	56.1	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	57.0	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	58.1	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	59.6	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	60.5	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	63.0	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	62.2	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	60.6	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	60.0	dB (A) Leq	IS 9989	65





Go Green Mechanisms Pvt.Ltd.

Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Siracha Village			
Sampling Date		21.03.2024			
Sampling Instrument	Sound Level Meter	Ldn	57.3		
Lmax (Day)	63.0	Lmax (Night)	58.6		
Lmin (Day)	50.6	Lmin (Night)	43.6		
Leq (Day)	58.8	Leq (Night)	50.3		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	58.6	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	57.5	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	56.5	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	55.9	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	53.5	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	53.0	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	52.2	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	47.4	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	43.6	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	48.0	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	47.5	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	48.6	dB (A) Leq	IS 9989	55

Analysis By

Vishal Makwana

Approved By

Ramakant Panday

.....END.....



Go Green Mechanisms Pvt.Ltd.

Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name		Kutch Copper Limited			
On Site 24 Hourly Monitoring Results					
Sample Type			Ambient Noise Monitoring		
Location			Zarapara Village		
Sampling Date			28.03.2024		
Sampling Instrument		Sound Level Meter	Ldn	56.9	
Lmax (Day)		63.0	Lmax (Night)	51.0	
Lmin (Day)		49.6	Lmin (Night)	38.7	
Leq (Day)		58.5	Leq (Night)	47.0	
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	49.6	dB (A) Leq	IS 9989	75
2.	07:00 - 08:00	52.3	dB (A) Leq	IS 9989	75
3.	08:00 - 09:00	53.7	dB (A) Leq	IS 9989	75
4.	09:00 - 10:00	60.5	dB (A) Leq	IS 9989	75
5.	10:00 - 11:00	62.3	dB (A) Leq	IS 9989	75
6.	11:00 - 12:00	60.7	dB (A) Leq	IS 9989	75
7.	12:00 - 13:00	55.9	dB (A) Leq	IS 9989	75
8.	13:00 - 14:00	54.5	dB (A) Leq	IS 9989	75
9.	14:00 - 15:00	53.1	dB (A) Leq	IS 9989	75
10.	15:00 - 16:00	58.9	dB (A) Leq	IS 9989	75
11.	16:00 - 17:00	63.0	dB (A) Leq	IS 9989	75
12.	17:00 - 18:00	60.4	dB (A) Leq	IS 9989	75



Reporting Date: 05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Zarapara Village			
Sampling Date		28.03.2024			
Sampling Instrument	Sound Level Meter	Ldn	56.9		
Lmax (Day)	63.0	Lmax (Night)	51.0		
Lmin (Day)	49.6	Lmin (Night)	38.7		
Leq (Day)	58.5	Leq (Night)	47.0		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	58.7	dB (A) Leq	IS 9989	75
14.	19:00 - 20:00	57.5	dB (A) Leq	IS 9989	75
15.	20:00 - 21:00	56.9	dB (A) Leq	IS 9989	75
16.	21:00 - 22:00	55.4	dB (A) Leq	IS 9989	75
17.	22:00 - 23:00	51.0	dB (A) Leq	IS 9989	70
18.	23:00 - 12:00	49.7	dB (A) Leq	IS 9989	70
19.	12:00 - 01:00	48.8	dB (A) Leq	IS 9989	70
20.	01:00 - 02:00	44.5	dB (A) Leq	IS 9989	70
21.	02:00 - 03:00	41.4	dB (A) Leq	IS 9989	70
22.	03:00 - 04:00	38.7	dB (A) Leq	IS 9989	70
23.	04:00 - 05:00	43.1	dB (A) Leq	IS 9989	70
24.	05:00 - 06:00	45.2	dB (A) Leq	IS 9989	70

Analysis By

Vishal Makwana

Approved By

Ramakant Panday

.....END.....





Go Green Mechanisms Pvt.Ltd.

Reporting Date:05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name	Kutch Copper Limited
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On Site 24 Hourly Monitoring Results

Sample Type	Ambient Noise Monitoring		
Location	Siracha Village		
Sampling Date	28.03.2024		
Sampling Instrument	Sound Level Meter	Ldn	58.9
Lmax (Day)	56.3	Lmax (Night)	54.9
Lmin (Day)	47.1	Lmin (Night)	48.1
Leq (Day)	60.4	Leq (Night)	51.7

Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
1.	06:00 - 07:00	57.6	dB (A) Leq	IS 9989	65
2.	07:00 - 08:00	59.0	dB (A) Leq	IS 9989	65
3.	08:00 - 09:00	60.4	dB (A) Leq	IS 9989	65
4.	09:00 - 10:00	64.3	dB (A) Leq	IS 9989	65
5.	10:00 - 11:00	64.9	dB (A) Leq	IS 9989	65
6.	11:00 - 12:00	60.2	dB (A) Leq	IS 9989	65
7.	12:00 - 13:00	58.7	dB (A) Leq	IS 9989	65
8.	13:00 - 14:00	58.5	dB (A) Leq	IS 9989	65
9.	14:00 - 15:00	57.8	dB (A) Leq	IS 9989	65
10.	15:00 - 16:00	57.6	dB (A) Leq	IS 9989	65
11.	16:00 - 17:00	61.4	dB (A) Leq	IS 9989	65
12.	17:00 - 18:00	61.9	dB (A) Leq	IS 9989	65



Reporting Date: 05/04/2024

AMBIENT NOISE MONITORING REPORT

Company Name

Kutch Copper Limited

On Site 24 Hourly Monitoring Results

Sample Type		Ambient Noise Monitoring			
Location		Siracha Village			
Sampling Date		28.03.2024			
Sampling Instrument	Sound Level Meter	Ldn	58.9		
Lmax (Day)	56.3	Lmax (Night)	54.9		
Lmin (Day)	47.1	Lmin (Night)	48.1		
Leq (Day)	60.4	Leq (Night)	51.7		
Sr. No.	Time	Hourly Leq	Unit	Test Method	Norms
13.	18:00 - 19:00	61.5	dB (A) Leq	IS 9989	65
14.	19:00 - 20:00	58.1	dB (A) Leq	IS 9989	65
15.	20:00 - 21:00	55.9	dB (A) Leq	IS 9989	65
16.	21:00 - 22:00	55.2	dB (A) Leq	IS 9989	65
17.	22:00 - 23:00	53.5	dB (A) Leq	IS 9989	55
18.	23:00 - 12:00	51.7	dB (A) Leq	IS 9989	55
19.	12:00 - 01:00	51.5	dB (A) Leq	IS 9989	55
20.	01:00 - 02:00	49.8	dB (A) Leq	IS 9989	55
21.	02:00 - 03:00	49.3	dB (A) Leq	IS 9989	55
22.	03:00 - 04:00	48.1	dB (A) Leq	IS 9989	55
23.	04:00 - 05:00	50.2	dB (A) Leq	IS 9989	55
24.	05:00 - 06:00	54.9	dB (A) Leq	IS 9989	55

Analysis By

Vishal Makwana

Approved By

Ramakant Panday

.....END.....



Ground Water Report

Reporting Date:05/04/2024

WATER ANALYSIS REPORT

Company Name		Kutch Copper Limited						
Sample Type	Water							
Sample Quantity	6 L							
Date of Sampling	28.03.2024							
Analysis Period	29.03.2024 to 04.04.2024							
Sl. No.	Parameter	Unit	Location			Test Method	IS 10500:2012	
			Novinal Village (BW)	Siracha village (BW)	Zarapara Village (BW)		AL	PL
1.	pH@25 °C	-	7.34	7.56	7.68	IS 3025-Part11	6.5-8.5	No relaxation
2.	Turbidity	NTU	BQL (QL=0.1)	BQL (QL=0.1)	BQL (QL=0.1)	APHA 23 rd Edn(2130 B)	1	5
3.	Total Dissolved Solids	mg/L	2584.0	2248.0	2738.0	APHA23rd Edn(2540 C)	500	2000
4.	Total Hardness as CaCO ₃	mg/L	426.0	244.0	308	APHA23rd Edn(2340 C)	200	600
5.	Alkalinity as CaCO ₃	mg/L	402.00	404.0	386.0	APHA23rd Edn (2230B)	200	600
6.	Calcium as Ca	mg/L	76.15	42.48	53.71	APHA23rdEdn (3500Ca B)	75	200
7.	Chloride	mg/L	1054.67	1009.69	1184.63	IS 3025-Part 32	250	1000
8.	Sulphate	mg/L	92.66	87.12	81.26	APHA23rdEdn (4500SO ₄ E)	200	400
9.	Nitrate	mg/L	5.34	1.44	1.96	APHA23rdEdn (4500NO ₃ B)	45	No relaxation
10.	Iron	mg/L	0.352	0.124	0.157	APHA 23rdEdn(3120 B)	0.3	No relaxation
11.	Fluoride	mg/L	0.82	0.67	0.78	APHA 23rdEdn(4500 F D)	1	1.5
12.	Hexavalent Chromium as Cr ⁶⁺	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	APHA 23rdEdn(3500Cr B)	NS	NS



13.	Zinc (Zn)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA 23rdEdn(3120 B)	5	15
14.	Magnesium (Mg)	mg/L	57.35	33.53	42.28	APHA23rdEdn(3500MgB)	30	100
15.	Residual Chlorine	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn(4500Cl B)	0.2	1.0
16.	Colour	CU	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	IS 3025-Part 4	5	15
17.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025-Part 5	Agreeable	Agreeable
18.	Temperature	°C	27.2	26.9	27.2	APHA23rdEdn (2550B)	NS	NS
19.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025-Part7,8	Agreeable	Agreeable
20.	Phenolic Compounds	mg/L	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	IS 3025- Part 43	0.001	0.002
21.	Cyanide	mg/L	BQL (QL=0.025)	BQL (QL=0.025)	BQL (QL=0.025)	GGMPL/SOP/W/43	0.05	No relaxation
22.	Aluminium (Al)	mg/L	0.04	0.036	0.048	APHA23rdEdn (3120 B)	0.03	0.2
23.	Arsenic (As)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	0.05
24.	Boron (B)	mg/L	0.572	0.584	0.768	APHA23rdEdn (3120 B)	0.5	1.0
25.	Cadmium (Cd)	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	APHA23rdEdn (3120 B)	0.003	No relaxation
26.	Copper (Cu)	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	APHA23rdEdn (3120 B)	0.05	1.5
27.	Lead (Pb)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation
28.	Manganese (Mn)	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (3120 B)	0.1	0.3
29.	Mercury (Hg)	mg/L	BQL (QL=0.0005)	BQL (QL=0.0005)	BQL (QL=0.0005)	APHA23rdEdn (3112 B)	0.001	No relaxation
30.	Selenium (Se)	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	APHA23rdEdn (3120 B)	0.01	No relaxation



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31.	Anionic Surface Active Agents	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	BQL (QL=0.05)	APHA23rdEdn (5540 C)	0.2	1.0
32.	E.coli	-	Absent	Absent	Absent	IS 1622	Absent	-
33.	Total Coliform	-	Absent	Absent	Absent	IS 1622	Absent	-

BQL - Below Quantification Limit

Analysis By

 Vishal Makwana

Approved By

 Ramakant Panday

.....END.....



Surface Water Report



Go Green Mechanisms Pvt.Ltd.

Reporting Date: 05/04/2024

WATER ANALYSIS REPORT

Company Name	Kutch Copper Limited
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Sample Type	Water
Sample Quantity	6 L
Date of Sampling	28.03.2024
Analysis Period	29.03.2024 to 04.04.2024

Sl. No.	Parameter	Unit	Location	Test Method	Norms
			At Project site (SW)		
1.	pH@25 °C	-	8.02	IS 3025-Part11	-
2.	Turbidity	NTU	BQL(QL=0.1)	APHA 23 rd Edn(2130 B)	-
3.	Total Dissolved Solids	mg/L	31192.0	APHA23rd Edn(2540 C)	-
4.	Total Hardness as CaCO3	mg/L	6560.0	APHA23rd Edn(2340 C)	-
5.	Alkalinity as CaCO3	mg/L	184.00	APHA23rd Edn (2230B)	-
6.	Calcium as Ca	mg/L	529.06	APHA23rdEdn (3500Ca B)	-
7.	Chloride	mg/L	16444.90	IS 3025-Part 32	-
8.	Sulphate	mg/L	2041.46	APHA23rdEdn (4500SO ₄ E)	-
9.	Nitrate	mg/L	2.11	APHA23rdEdn (4500NO ₃ B)	-
10.	Iron	mg/L	1.682	APHA 23rdEdn (3120 B)	-
11.	Fluoride	mg/L	1.48	APHA 23rdEdn (4500 F D)	-



12.	Hexavalent Chromium as Cr6+	mg/L	BQL(QL=0.01)	APHA 23rdEdn (3500Cr B)	-
13.	Zinc (Zn)	mg/L	BQL(QL=0.02)	APHA 23rdEdn (3120 B)	-
14.	Magnesium (Mg)	mg/L	1273.32	APHA23rdEdn (3500MgB)	-
15.	Residual Chlorine	mg/L	BQL(QL=0.05)	APHA23rdEdn (4500 Cl B)	-
16.	Colour	CU	BQL(QL=1)	IS 3025- Part 4	-
17.	Odour	-	Agreeable	IS 3025 - Part 5	-
18.	Temperature	°C	26.8	APHA23rdEdn (2550B)	-
19.	Taste	-	Agreeable	IS 3025-Part7,8	-
20.	Phenolic Compounds	mg/L	BQL(QL=0.001)	IS 3025-Part 43	-
21.	Cyanide	mg/L	BQL(QL=0.025)	GGMPL/SOP/W/43	-
22.	Aluminium (Al)	mg/L	0.582	APHA23rdEdn (3120 B)	-
23.	Arsenic (As)	mg/L	BQL(QL=0.005)	APHA23rdEdn (3120 B)	-
24.	Boron (B)	mg/L	4.276	APHA23rdEdn (3120 B)	-
25.	Cadmium (Cd)	mg/L	BQL(QL=0.002)	APHA23rdEdn (3120 B)	-
26.	Copper (Cu)	mg/L	BQL(QL=0.02)	APHA23rdEdn (3120 B)	-
27.	Lead (Pb)	mg/L	BQL(QL=0.005)	APHA23rdEdn (3120 B)	-
28.	Manganese (Mn)	mg/L	BQL(QL=0.05)	APHA23rdEdn (3120 B)	-
29.	Mercury (Hg)	mg/L	BQL(QL=0.0005)	APHA23rdEdn (3112 B)	-
30.	Selenium (Se)	mg/L	BQL(QL=0.005)	APHA23rdEdn (3120 B)	-
31.	Anionic Surface Active Agents	mg/L	BQL(QL=0.05)	APHA23rdEdn (5540 C)	-






Go Green Mechanisms Pvt.Ltd.

32.	E.coli	-	Absent	IS 1622	-
33.	Total Coliform	-	Present	IS 1622	-

BQL - Below Quantification Limit

Analysis By

Vishal Makwana



Approved By

Ramakant Pappay

.....
END
.....



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

By R.P.A.D

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous and Other Waste (Management and Transboundary) Rules, 2016 framed under the Environmental (Protection) Act-1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application inward no. **303145 dated 08/01/2024** for the **Consolidated Consent and Authorization (CC & A)** of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION:

(Under the provisions /rules of the aforesaid environmental acts)

To,
M/s. Kutch Copper Limited,
Plot no. 295/Paiki 6/Paiki2, 295/ Paiki 6/Paiki 3,
Adjacent nos. Navinal- 223/Part, 224 Part,
Vill: Sirancha, Navinal within APSEZ Mundra,
Tal: Mundra, Dist: Kutch – 370 405.

1. Consent Order No. AWH-132498 Date of issue: 20/02/2024.
2. The consents shall be valid upto **07/01/2029** for the use of outlet for the discharge of treated effluent and emission due to operation of industrial plant for manufacturing of the following items/ products:

Sr. no.	Product	Quantity
1	Copper Cathode	41,667 MT/Month
2	Copper Rod	20,833 MT/Month
3	Sulphuric Acid (> 98%)	1,40,000 MT/Month
4	Gold	3 MT/Month
5	Silver	25 MT/Month
6	Selenium	24 MT/Month
By Product		
7	Waste Heat Recovery Boiler (WHRB)	40 MWH
8	Oxygen Industrial Plant	1850 TPD

Subject to specific condition:

1. Industry shall comply with all condition of Environment Clearance granted by MoEF & CC, New Delhi vide letter no. J-11011/113/2016-IA.II (I) dated 08/05/2020 & iys subsequent amendment on 03/08/2021.
2. Industry shall comply with all conditions mentioned in this office letter no. GPCB/HAZ-GEN-762/ID-83996 dated 10/11/2023 regarding secured landfill facility.

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3. Industry shall operate Online Monitoring System provided at the Boiler stacks to monitor PM, SO_x & NO_x concentrations in the flue gas emission efficiently & regularly and maintain its record.
4. Industry should carry out calibration of provided Online Monitoring System at regular interval from the NABL accredited laboratories & submit calibration certificate to this office.
5. Industry shall provide Continuous Ambient Air Quality Management System (CAAQMS).
6. No ground water shall be withdrawal without prior permission from CGWA as per of Hon. NGT order.
7. Industry shall obtain fresh water from valid source have permission of the competent authority.
8. Industry shall obtain Public Liability Insurance Policy time to time & submit a copy of the same to this office.
9. Industry shall comply with PESO permission issued by competent authority and renew PESO permission time to time & submit a copy of the same to this office.
10. Industry shall comply with Manufacturing, Storage and Import of Hazardous Chemicals Rules – 1989 framed under the Environment (Protection) Act-1989 including site notification of competent authority for isolated storage & submit acknowledge copy of onsite emergency plan & third party safety audit report time to time.
11. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).
12. Industry shall comply with circular of the Board dated 27/08/2021 regarding retrofitting of emission control/ equipment in D.G. Set of capacity 125 KVA and above as per system & procedure for emission compliance testing of Retrofit Emission Control Devices (RECD) for D.G. Set issued by CPCB dated 01/02/2022 at the earliest and submit compliance.

3. CONDITIONS UNDER THE WATER ACT:

- 3.1 Source of Water: - APSEZ.
- 3.2 The quantity of the fresh water consumption for industrial purpose shall not exceed 26260 KLD.
- 3.3 The quantity of the fresh water consumption for domestic purpose shall not exceed 240 KL/Day.
- 3.4 The quantity of water consumption for gardening purpose shall not exceed 1000 KL/Day.
- 3.5 The quantity of industrial effluent generated from manufacturing process & other ancillary operation shall not exceed 5371 KL/Day.
- 3.6 The quantity of domestic waste water (Sewage) shall not exceed 200 KL/Day.
- 3.7 Industrial waste water shall be treated in the ETP & subjected to RO followed by MVR (Mechanical Vapour Recompression) & ATFD (Agitated Thin Film Evaporator/ Dryers) system.



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GANDHINAGAR - 382010,

(T) 079-23232152

- 3.8 Out of total treated effluent, about 4997 KLD shall be reused back in process, boiler & cooling process, while, remaining 374 KLD shall be loss into evaporation process. In no case effluent shall be discharged outside premises.
- 3.9 Industry shall provide fixed pipeline with flow meter for reuse/ recycling of treated effluent and maintain its record on day to day basis.
- 3.10 The Industry shall operate Sewage Treatment Plant (STP) adequately so that treated domestic effluent shall comply with following norms:

PARAMETERS	PERMISSIBLE LIMIT
pH	6.5 to 9.0
BOD (5 days at 20° C)	30 mg/L
Suspended Solids	100 mg/L
Fecal Coliform	1000 MPN / 100 ml

- 3.1 The treated domestic effluent confirming to above norms shall be discharged on land for gardening and plantation purpose within premises only.
- 3.2 Industry shall provide fixed pipeline network with flow meter for even distribution of treated domestic effluent and maintain its record.
- 3.11 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.

4. CONDITIONS UNDER THE AIR ACT:

- 4.1. The following shall be used as fuel in Furnace, pre heater at Sulphuric Acid Plant & D.G. Sets respectively:

Sr. No.	Utility	Fuel	Quantity
1.	Furnace	PNG	2149 Nm ³ /hr
2.	Pre Heater at Sulphuric Acid Plant	LDO/HSD	27,18,009 KL/Month
3.	D.G. Set (1 & 2)	HSD	46,200 KL/Month
4.	D.G. Set (3 & 4)	HSD	46,200 KL/Month

- 4.2. The applicant shall install air pollution control system in order to achieve emission norms.
- 4.3. The flue gas emission through stack attached to Furnace, pre heater at Sulphuric Acid Plant & D.G. Sets shall conform to the following standards.

Sr. No	Stack attached to	Stack height	APCM	Parameter	Permissible limit
1	Furnace	36 m	Adequate Stack	PM SO ₂	30 mg/Nm ³ 0.7 Kg SO ₂ /Tonn of
2	Pre Heater at Sulphuric Acid Plant*	45 m	Low NOx Burner	Acid Mist	H ₂ SO ₄ 50 mg/Nm ³
3	D.G. Set (1 & 2) (4000 KVA each)	30 m	Adequate Stack Height	PM SO ₂	150 mg/Nm ³ 100 ppm
4	D.G. Set (3 & 4) (4000 KVA each)	30 m	Adequate Stack Height	NO _x	50 ppm

* Only for starts-ups/ shut – downs.

4.4. The process gas emission through stack attached to Flue gas Desulphurization, Sulphuric Acid Plant, Smelting Furnace & Precious Metal Recovery Plant shall conform to the following standards.

Sr. No	Stack attached to	Stack height	APCM	Parameter	Permissible limit
1	Flue gas Desulphurization (FGD) 1 & 2	150 m	Amine based Scrubber	PM SO ₂	30 mg/Nm ³ 400 mg/Nm ³
2	Sulphuric Acid Plant (SAP)	150 m	Amine based Scrubber	PM SO ₂ Acid Mist	30 mg/Nm ³ 0.7 Kg SO ₂ /Tonn of H ₂ SO ₄ 50 mg/Nm ³
3	Smelting Furnace	120 m	ESP	PM Acid Mist	30 mg/Nm ³ 50 mg/Nm ³
4	Precious Metal Recovery Plant	30 m	Amine based Scrubber	PM Acid Mist	30 mg/Nm ³ 50 mg/Nm ³

4.5. The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder as per National Ambient Air Quality Standards issued by MoEF & CC dated 18th November-2009. In addition to following parameters Industry shall also carry out AAQ monitoring of all other applicable parameter as per MoEF notification dated 18/11/2009 and submit the report to the Board.

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient air in µg/M ³
1.	Sulphur Dioxide (SO ₂)	Annual 24 Hours	50 80
2.	Nitrogen Dioxide (NO ₂)	Annual 24 Hours	40 80
3.	Particulate Matter (Size less than 10 µm) or PM ₁₀	Annual 24 Hours	60 100
4.	Particulate Matter (Size less than 2.5 µm) or PM _{2.5}	Annual 24 Hours	40 60

4.6. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

4.7. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and 70 dB (A) during night



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time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

4.8. D.G. Sets Conditions

The D.G. Set shall have acoustic enclosure and shall comply with the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G. Sets standards:-

The flue gas emission through stack attached to D.G. Sets shall conform to the following standards.

- The minimum height of stack to be provided with each of the generator set shall be $H=h + 0.2 (KVA)^{1/2}$, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.
- Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
- The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- All efforts shall be made to bring down the noise level due to the D.G. Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G. Set manufacturer.
- A proper routine and preventive maintenance procedure for the D.G. Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use.

5. AUTHORIZATION as per HAZARDOUS AND OTHER WASTE (MANAGEMENT AND TRANSBOUNDARY) RULES, 2016 Form-2 [See rule 6 (2)]

Form for grant of authorization for occupier or operator handling Hazardous waste

5.1 Authorization order No:-**AWH- 132498** date of Issue: **20/02/2024**.

5.2 **M/s. Kutch Copper Limited** is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, treatment, storage, transport of hazardous waste on the premises situated at Plot no. 295/Paiki

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6/Paiki2, 295/ Paiki 6/Paiki 3, Adjacent nos. Navinal- 223/Part, 224 Part, Vill: Sirancha, Navinal within APSEZ Mundra, Tal: Mundra, Dist: Kutch.

Sr. No	Waste	Quantity per Annum	Schedule/ Category	Facility
1	Spent Catalyst	200 KL	I-17.2	Collection, storage, transportation & disposal at captive secured landfill site within premises.
2	Empty Barrels/ Container	22.5 KL	I-33.1	Collection, storage, transportation & disposed to registered recycler.
3	Spent ion exchange resin containing toxic metals	20 KL	I-35.2	Collection, storage, transportation & disposal at captive secured landfill site within premises.
4	Salt from MEE / MVR	9240 TP	I-35.3	Collection, storage, transportation & disposal at captive secured landfill site within premises.
5	Used or Spent Oil	200 TP	I-5.1	Collection, storage, transportation & disposed to registered recycler.
6	Wastes or Residue Containing Oil	50 TP	I-5.2	Collection, storage, transportation & disposed to registered recycler.
7	Process Residue	2130 TP	I-7.2	Collection, storage, transportation & disposed to registered recycler.
8	Arsenic-Bearing ETP Sludge	43348 TP	I-7.3	Collection, storage, transportation & disposed to registered recycler.
9	Non-Ferrous metal bearing sludge and residue	1860 TP	I-7.4	Collection, storage, transportation & disposed to registered recycler.
10	Sludge from Scrubber	172652 TP	I-7.5	Collection, storage, transportation & disposed to registered recycler.



Outward No: 797567/2024



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- 5.3 The authorization shall be valid upto 07/01/2029.
- 5.4 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.
- 5.5 The authorization is granted to operate a facility for collection, storage within factory premises transportation and ultimate disposal of Hazardous wastes as per condition no.5.2 to the industry having valid CCA of this Board.

5.6 TERMS AND CONDITIONS OF AUTHORISATION

1. The applicant shall comply with the provisions of the Environment (Protection) Act-1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
3. The persons authorized shall not rent, lend, sell, and transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Wastes and Penalty"
7. It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization shall be made as laid down in rules 6(2) under Hazardous and Other Waste Rules, 2016.
9. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
10. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
11. The hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
12. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. The waste generator shall be totally responsible for (i.e. collection, storage, transportation and ultimate disposal) the wastes generated.
15. Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form-4 by 30th day of June of every year for the preceding period April to March.

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16. In case of any accident, details of the same shall be submitted on Form-11 to Gujarat Pollution Control Board.
17. As per "Public Liability Insurance Act-91" company shall get Insurance Policy, if applicable.
18. Empty drums and containers of toxic and hazard material shall be treated as per guideline published for "Management & Handling of discarded containers". Records of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
19. In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State of Union Territory Administration where the facility exists.
20. Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Actions taken in this regard shall be submitted within three months and also along with Form-4.
21. Industry shall have to display the relevant information with regards to hazardous waste as indicated in the Hon. Supreme Court's Order in W.P. No.657 of 1995 dated 14th October, 2003.
22. Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including wastewater and air emissions and solid hazardous wastes generated within the factory premises.

6 SPECIFIC CONDITIONS:-

- 6.1 The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.
- 6.2 Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry in the passbook of the actual user.
- 6.3 In case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
- 6.4 The occupier of the facility shall comply Standard operating procedure/guidelines published by MOEF&CC or CPCB or GPCB from time to time.
- 6.5 Unit shall comply provisions of E-Waste Management Rules-2016.
- 6.6 The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.
- 6.7 The occupiers of facilities shall not store the hazardous and other wastes for a period not exceeding **ninety days**. Prior permission of the Board shall be obtained for extension of the storage period.
- 6.8 The occupier shall maintain the records of generation, sale, storage, transport, recycling, co processing and disposal of hazardous waste and make available during the inspection.
- 6.9 The transportation of the hazardous waste shall be carried out in GPS mounted dedicated vehicles.





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PARYAVARAN BHAVAN, SECTOR 10-A,

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7 GENERAL CONDITIONS:-

- 7.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 7.2 Applicant shall also comply with the general conditions given in annexure I.
- 7.3 Whenever due to accident or other unforeseen act or ever, such emissions occur or is apprehended to occur in excess of standards laid down such information shall be forthwith reported to Board, concerned Police Station, Office of Directorate of Health Service, Department of Explosives, Inspectorate of Factories and local body.
- 7.4 In case of failure of pollution control equipments, the production process connected to it shall be stopped. Remedial actions/measures shall be implemented immediately to bring entire situation normal.
- 7.5 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell/Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.
- 7.6 The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 7.7 The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.
- 7.8 In case of change of ownership/management the name and address of the new owners/ partners/directors/proprietor should immediately be intimated to the Board.
- 7.9 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Hon. Supreme order in w.p. no. 657 of 1995 dated 14th October 2003.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD


(T. C. Patel)

Unit Head

Date:- /02/2024

NO: PC/CCA-KUTCH-2233/GPCB ID-83996/

Issued to:

M/s. Kutch Copper Limited,
Plot no. 295/Paiki 6/Paiki2, 295/ Paiki 6/Paiki 3,
Adjacent nos. Navinal- 223/Part, 224 Part,
Vill: Sirancha, Navinal within APSEZ Mundra,
Tal: Mundra, Dist: Kutch – 370 405.

Outward No:797562,30/03/2024