



कोयला मंत्रालय
MINISTRY OF
COAL



cmpdi
A Mini Ratna Company

ANNUAL REPORT OF
ROUTINE ENVIRONMENTAL MONITORING
OF
IB VALLEY COALFIELDS
2023-24



Prepared by:
Central Mine Planning Design Institute Ltd.
Regional Institute-VII, Bhubaneswar



REPORT TITLE	CLIENT NAME	MAHANADI COALFIELDS LIMITED, JAGRUTI VIHAR, BURLA, SAMBALPUR – 768020
	SITE LOCATION	IB Valley Coalfield
	STUDY PERIOD	Apr'2023-Mar'2024
	REPORT DATE	July 2024
	CONSULTANT	CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.
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TABLE OF CONTENT

SECTION	CONTENT	PAGE NUMBER
1.	FOREWORD	1
2.	LIST OF EQUIPMENTS	2
3.	LIST OF PROJECT PERSONNEL	3
4.	EXECUTIVE SUMMARY	4
5.	CONCEPTS & METHODOLOGY	5 to 8
	5.1 CONCEPT	
	5.2 SCOPE OF WORK	
	5.3 METHODOLOGY	
6.	PLAN FOR SAMPLING LOCATIONS	9 to 16
	6.1: STUDY AREA	
7.	RATIONALE BEHIND SAMPLING	17
8.	AMBIENT AIR MONITORING REPORT	
	8.1 CONCEPT & SCOPE	19
	8.2 FREQUENCY OF SAMPLING	19
	8.3 SAMPLING DURATION	19
	8.4 AMBIENT AIR QUALITY MONITORING AT DIFFERENT LOCATIONS	20
	8.5 AMBIENT AIR QUALITY MONITORING RESULTS	21 to 146
	8.6 EXECUTIVE SUMMARY OF AAQM	147
	8.7 AAQM RESULTS FOR HEAVY METALS, BENZENE, CO, O ₃ , NH ₃	148 to 394
9.	WATER ANALYSIS REPORT	
	9.1 CONCEPT & SCOPE	396
	9.2 ANALYTICAL RESULTS	
	9.2.1 EFFLUENT WATER ANALYTICAL RESULTS	399 to 497
	9.2.2 SURFACE WATER ANALYTICAL RESULTS	498 to 524
	9.2.3 WELL WATER ANALYTICAL RESULTS	525 to 548
	9.2.4 DRINKING WATER ANALYTICAL RESULTS	549 to 572
	9.2.5 PIEZOMETER MEASUREMENT DATA	573 to 588
10.	NOISE LEVEL MONITORING	
	10.1 NOISE LEVEL MONITORING RESULTS	589 to 671

LIST OF FIGURES

Figure No.	Content	Page.No.
1	Satellite image of study area of Jharsuguda district with mine boundary	16
2	Satellite image of study area of Sundargarh district with mine boundary	16
3	Air Sampling at Village	20
4	Air Sampling at a station in IBCF	20
5	Water sampling at Mine Sump	396
6	Water sampling at Mine reservoir	397
7	Water sampling at village	397
8	Noise Meter	670
9	Noise sampling	671

SECTION 1: FOREWORD

Routine environmental monitoring (REM) plays a critical role in safeguarding our planet's health and ensuring a sustainable future. It involves the systematic collection, analysis, and interpretation of data on various environmental parameters, such as air quality, water quality, biodiversity, and climate conditions. By monitoring our environment regularly, we gain valuable insights into the state of ecosystems, identify potential risks, and inform decision-making processes aimed at mitigating environmental degradation.

Data from REM is used in preparing Environmental Impact Assessment/ Environmental Management Plan (EIA/EMP) for the coal project and constitutes basis for environmental appraisal of the project and its clearance from the Ministry of Environment, Forest & Climate Change (MoEF & CC). REM data of environmental quality (Ambient Air, Water, Noise,) have to be generated prior to the preparation of EIA/EMP.

M/s Central Mine Planning & Design Institute Ltd (CMPDI) RI-VII, Bhubaneswar is entrusted with the task of undertaking Routine environmental monitoring (REM) of Ambient Air Quality, Water, Noise characteristics for Ib Valley coalfield of M/s Mahanadi Coal Fields Ltd as per work order no. MCL/HQ/Env&Forest/2023/275 dated 31-03-2023.

Data on Environmental quality for financial year 2023-24 (Apr'23 to Mar'24) has been collected and analyzed in this report.

We are thankful to General Manager (Env. & Forest), Mahanadi Coal Field Ltd, Burla, for the opportunity provided to be associated in this endeavor. We are also thankful to the supporting Staff for the co- operation provided during the study.

SECTION 2: LIST OF EQUIPMENTS

Sl. No.	Name of the Instrument/Equipment	Make and Model
1	Analytical Balance	Citizen, CX 420
2	Atomic Absorption Spectrophotometer	Agilent, Spectro AA 280 FS
3	AUTOCLAVE	CHEMINCO, CIC-VA-22
4	Automatic Weather Monitoring Station	Analysar Instrument Co. Pvt.Ltd.
5	BOD Incubator	CHEMINCO, CIC-BI-12
6	CO Analyser	Horiba, APMA 370
7	COD Digestor (Close reflux)	CHEMINCO, CIC-COD-15
8	Conductivity Meter	Labtronics, LT-51
9	Deep Freezer	CHEMINCO, CIC-DFY-20
10	Desiccator cecador cabinet	TARSON
11	DO Meter	Labtronics; LT-52;
12	Electronic Precision Balance (Max 220g)	Citizen CX 265
13	Electronic Micro Balance	Citizen CM-2
14	Fine particulate sampler	Ecotech/ AAS 127 FC
15	Fume Hood	DINESH SCIENTIFIC, DS-FH-7723
16	Gas Chromatograph	Agilent, 7890 B
17	Gaseous Sampling Attachment	Envirotech/ APM 411 TE M
18	Heating Mantle	LOCAL, 01L
19	Hot air oven	Relitech
20	Incubator	CHEMINCO, CIC-BI-12
21	Laminar Flow	CHEMINCO,
22	Microwave Digestor	Milestone, Start D
23	pH meter	Eutech Instruments, p H700
24	Portable Analyser kit	Labtronics; MB-14-02-64
25	Refrigerator	Godrej (286 Litre)
26	Respirable Dust Sampler	Envitotech/ APM 460
27	TKN Analyser	Pelican, Kjeloplus
28	Turbidity meter	Shivam
29	Ultrapure Water Purification System	ELGA, Pure lab Quest
30	UV-Vis Spetrophotometer Double Beam	Labard, LIM:332
31	UV-Vis Spetrophotometer Single beam	Labard, LIM :330

SECTION 3: LIST OF PROJECT PERSONNEL

S.No	Name	Designation
1.	U.K.Mohanty	General Manager (Environment) HoD, REC Lab
2.	B.G.Ray	Manager (Geology)
3.	Subhashree Pattanaik	Manager (Envt.)
4.	Simma Aditya Prasad	Dy. Manager (Envt.)
5.	Shalinie Kumar	Dy. Manager (Envt.)
6.	Saswati Samantaray	Dy. Manager (Envt.)
7.	Rakesh Kr. Sahu	Scientific Assistant
8.	Simma Bhaskar Rao	Junior Scientific Assistant
9.	Amit Pal	Junior Scientific Assistant
10.	Suresh Kumar Varri	Junior Scientific Assistant
11.	Snehasish Chowdhuri	Junior Scientific Assistant
12.	Raja Deb	Rigman
13.	Keshav Ch. Roy	Clerk
14.	S.C. Bharatiya	Sampling Assistant
15.	B. Chandrashekhar	Sampling Assistant
16.	Dharamvir Kr. Bharati	Sampling Assistant
17.	Dinesh Ku. Mahato	Sampling Assistant
18.	Pradeep Kumar	Cat-1
19.	B. Kameshwar Rao	Sampling Assistant
20.	Kamlesh Yadav	Cat-1
21.	Kanai Bauri	Cat-1
22.	Shyam Kahar	Bega Opr

SECTION 4: EXECUTIVE SUMMARY

M/s Central Mine Planning & Design Institute Ltd RI-VII, Bhubaneswar has undertaken the task of REM of Talcher & Ib Valley Coalfield of MCL. The data based on actual field monitoring of various parameters of Air, Water, Noise which is a crucial tool for understanding, managing, and protecting our environment. By systematically collecting and analyzing data, we gain valuable insights into environmental health, identify risks, and guide decision-making processes. Data is also used for preparing EIA/EMP report for various projects of M/s Mahanadi Coal field Ltd.

REM data on Environmental quality for FY Apr'23 to Mar'24 has been collected.

On the basis of wind direction pattern, the various locations for Air Quality Monitoring (AQM) were selected in such manner that some would be in upwind direction, some in downwind direction & others in crosswind direction and the core-zone. The concentration of gaseous pollutants, PM_{2.5}, Heavy metals were sampled and analyzed for compliance to GSR 826(E) vide Notification Dated 16/11/2009 & the concentration of PM₁₀ was sampled and analyzed for compliance to GSR 742(E) Dated 25/09/2000.

Drinking water samples, surface water, effluent water, well water and piezometer samples were collected to understand the overall water quality of the project area. The water parameters were sampled and analyzed to check for compliance to the specifications of (IS 10500:2012 & I 2296:1982 Inland surface water Class C).

The noise level was monitored at almost all the AQM stations on Day & Night time basis, monthly as per CMPDI/RN/LSOP 07: March

SECTION 5: CONCEPT, SCOPE OF WORK & METHODOLOGY

5.1 CONCEPT

The concept of Routine Environmental Monitoring is rooted in the recognition that environmental changes occur over time and that ongoing monitoring is necessary to understand these changes, identify trends, and assess the effectiveness of environmental management strategies. It provides a foundation for evidence-based decision-making, policy formulation, and the implementation of effective environmental protection and conservation measures.

Key components of Routine Environmental Monitoring include:

1. Data Collection: Regular data collection through various methods such as sampling, observation, and measurement is essential. This involves gathering data from monitoring stations, sensors, field surveys, laboratory analysis, and remote sensing technologies.
2. Parameter Selection: Determining which environmental parameters to monitor depends on the specific objectives and concerns of the monitoring program. Parameters can include air pollutants, water chemistry, nutrient levels, habitat quality, species abundance, and climate variables.
3. Monitoring Networks: Establishing a network of monitoring stations strategically located across different ecosystems or regions ensures representative data collection. These networks may involve fixed monitoring stations, mobile monitoring platforms, and even citizen science initiatives.
4. Data Analysis and Interpretation: Collected data is analyzed to identify patterns, trends, and anomalies. Statistical analysis, modeling techniques, and data visualization tools are employed to interpret the data and derive meaningful insights.
5. Reporting and Communication: Effective communication of monitoring results is crucial for transparency, accountability, and informing stakeholders. Regular reporting, data sharing, and dissemination of findings help raise awareness, guide decision-making, and foster collaboration among relevant parties.

5.2 SCOPE OF WORK

The study is to monitor the present Environmental conditions with respect to Air, Water, & Noise data by regular monitoring in order to understand the environmental conditions in and around the Ib Valley coalfield. The monitoring was carried out for FY 2023-24, thus the data generated will be used to estimate the present trend in comparison with stipulated standards.

5.3 METHODOLOGY

In the present study the following are the standard methods used for collection, analysis & interpretation of data:

Table 1: Standard methods used for Analysis & Instruments used:

SNo.	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used	Analytical Instruments
1	Ambient Air	Ammonia	IS 5182 Part 25	Spectrophotometer
2	Ambient Air	Arsenic	EPA-IO-3.1,3.2	AAS
3	Ambient Air	Lead	IS 5182 Part 22	AAS
4	Ambient Air	Nickel	IS 5182 Part 26	AAS
5	Ambient air	Nitrogen Dioxide	IS 5182 Part 6	Spectrophotometer
6	Ambient Air	Ozone	IS 5182 Part 9	Spectrophotometer
7	Ambient Air	Particulate Matter 10	IS 5182 Part 23	Precision Weighing Balance
8	Ambient Air	Particulate Matter 2.5	IS 5182 Part 24	Micro Weighing Balance
9	Ambient Air	Sulfur Dioxide	IS 5182 Part 2/Sec 1	Spectrophotometer
10	Drinking Water	Total Chromium	APHA 24th Ed 3113 B	AAS
11	Drinking Water	Arsenic	APHA 24th Ed 3114 C	AAS
12	Drinking Water	Boron	APHA 24th Ed 4500-B B	Spectrophotometer
13	Drinking Water	Boron	APHA 24th Ed 4500-B C	Spectrophotometer
14	Drinking Water	Cadmium	APHA 24th Ed 3113 B	AAS
15	Drinking Water	Copper	APHA 24th Ed 3111 B	AAS
16	Drinking Water	Fluoride	APHA 24th Ed 4500-F D	Spectrophotometer
17	Drinking Water	Iron	APHA 24th Ed 3111 B	AAS
18	Drinking Water	Lead	APHA 24th Ed 3113 B	AAS
19	Drinking Water	Manganese	APHA 24th Ed 3111 B	AAS
20	Drinking Water	Selenium	APHA 24th Ed 3114 C	AAS
21	Drinking Water	Zinc	APHA 24th Ed 3111 B	AAS
22	Drinking Water	Calcium	IS 3025 Part 40	Burette , Pipette
23	Drinking Water	Chloride	IS 3025 Part 32	Burette , Pipette
24	Drinking Water	Colour	APHA 24th Ed 2120 C	Spectrophotometer
25	Drinking Water	Nitrate	APHA 24th Ed 4500 NO3 B	Spectrophotometer
26	Drinking Water	pH	APHA 24th Ed 4500 H, B	pH meter
27	Drinking Water	Sulphate	APHA 24th Ed 4500 SO4 2 E	Spectrophotometer
28	Drinking Water	Total Alkalinity (as CaCO3)	IS 3025 Part 23	Burette , Pipette
29	Drinking Water	Total Dissolved Solids	IS 3025 Part 16	Hot air Oven
30	Drinking Water	Total Hardness (as CaCO3)	IS 3025 Part 21	Burette , Pipette
31	Drinking Water	Turbidity	IS 3025 Part 10	Turbidity Meter
32	Surface Water	Arsenic	APHA 24th Ed 3114 C	AAS
33	Surface Water	Cadmium	APHA 24th Ed 3113 B	AAS
34	Surface Water	Copper	APHA 24th Ed 3111 B	AAS
35	Surface Water	Fluoride	APHA 24th Ed 4500-F D	Spectrophotometer
36	Surface Water	Hexavalent Chromium	APHA 24th Ed 3500-Cr B	Spectrophotometer
37	Surface Water	Iron	APHA 24th Ed 3111 B	AAS
38	Surface Water	Lead	APHA 24th Ed 3113 B	AAS

39	Surface Water	Selenium	APHA 24th Ed 3114 C	AAS
40	Surface Water	Zinc	APHA 24th Ed 3111 B	AAS
41	Surface Water	Total Dissolved Solids	IS 3025 Part 16	Hot air Oven
42	Surface Water	Biochemical Oxygen Demand (3 Days@ 27°C)	IS 3025 Part 44	BOD Incubator
43	Surface Water	Chloride	IS 3025 Part 32	Burette , Pipette
44	Surface Water	Colour	APHA 24th Ed 2120 C	Spectrophotometer
45	Surface Water	Nitrate	APHA 24th Ed 4500 NO3 B	Spectrophotometer
46	Surface Water	Oil & Grease	IS 3025 Part 39	Hot air Oven
47	Surface Water	pH	APHA 24th Ed 4500-H,B	pH meter
48	Surface Water	Sulphate	APHA 24th Ed 4500 SO4 2 E	Spectrophotometer
49	Surface Water	Temperature	IS 3025 Part 9	Thermometer
50	Surface Water	Total Hardness	IS 3025 Part 21	Burette , Pipette
51	Surface Water	Total Suspended Solids	IS 3025 Part 17	Hot air Oven
52	Waste Water (Effluent /Sewage)	Odour	IS 3025 Part 05	Qualitative
53	Waste Water (Effluent /Sewage)	Oil & Grease	IS 3025 Part 39	Hot air Oven
54	Waste Water (Effluent /Sewage)	Lead	APHA 24th Ed 3113 B	AAS
55	Waste Water (Effluent /Sewage)	Manganese	APHA 24th Ed 3111 B	AAS
56	Waste Water (Effluent /Sewage)	pH	APHA 24th Ed 4500 H+ B	pH meter
57	Waste Water (Effluent /Sewage)	Total Chromium	APHA 24th Ed 3113 B	AAS
58	Waste Water (Effluent /Sewage)	Chemical Oxygen Demand (COD)	APHA 24th Ed 5220 B,C	COD Digestor
59	Waste Water (Effluent /Sewage)	Arsenic	APHA 24th Ed 3114 C	AAS
60	Waste Water (Effluent /Sewage)	Copper	APHA 24th Ed 3111 B	AAS
61	Waste Water (Effluent /Sewage)	Dissolved Phosphate	APHA 24th Ed 4500-P, C	Spectrophotometer
62	Waste Water (Effluent /Sewage)	Fluoride	APHA 24th Ed 4500-F D	Spectrophotometer
63	Waste Water (Effluent /Sewage)	Hexavalent Chromium	APHA 24th Ed 3500-Cr B	Spectrophotometer
64	Waste Water (Effluent /Sewage)	Iron	APHA 24th Ed 3111 B	AAS
65	Waste Water (Effluent /Sewage)	Nickel	APHA 24th Ed 3113 B.	AAS
66	Waste Water (Effluent /Sewage)	Nitrate Nitrogen	APHA 24th Ed 4500 NO3 B	Spectrophotometer
67	Waste Water (Effluent /Sewage)	Sulphide	APHA 24th Ed 4500-S2 D	Spectrophotometer
68	Waste Water (Effluent /Sewage)	Total Kjeldahl Nitrogen	APHA 24th Ed 4500 N org C	TKN Analyser
69	Waste Water (Effluent /Sewage)	Total Suspended Solids	IS 3025 Part 17	Filtration assembly, hot air oven
70	Waste Water (Effluent /Sewage)	Zinc	APHA 24th Ed 3111, B	AAS
71	Waste Water (Effluent/Sewage)	Ammonical Nitrogen as N	APHA 24th Ed 4500-NH3 B,F	Spectrophotometer
72	Waste Water (Effluent/Sewage)	Ammonical Nitrogen as N	APHA 24th Ed 4500-NH3 B,C	Burette , Pipette

73	Waste Water (Effluent/Sewage)	Biochemical Oxygen Demand (3 Days@ 27°C)	IS 3025 Part 44	BOD Incubator
74	Waste Water (Effluent/Sewage)	Cadmium	APHA 24th Ed 3113 B	AAS
75	Waste Water (Effluent/Sewage)	Colour	APHA 24th Ed 2120 C	Spectrophotometer
76	Waste Water (Effluent/Sewage)	Selenium	APHA 24th Ed 3114 C	AAS

SECTION 6: PLAN FOR SAMPLING LOCATIONS

Site selection criteria play an important role in the initiation of “REM data generation” as it provides an outlook on the type of environmental compliance and management to be adopted by the project proponent.

Sampling stations were fixed on the basis of meteorological parameters like predominant wind direction based on IMD data and wind speeds besides physiography of the area.

Table 2: Description of Air Sampling Location used for monitoring in Apr’23 to Mar’24

SL	Project (OCP/UG)	Name of Air Monitoring Station	Type of Station	Latitude			Longitude		
				DD	MM	SS.SS	DD	MM	SS.SS
1	Samleswari	West of the Mine	Compliance Station	21	47	57.60	83	52	38.60
2		South of the Mine	Compliance Station	21	47	10.80	83	53	53.30
3		East of the Mine	Compliance Station	21	48	13.20	83	55	11.80
4		South East of the Mine	Compliance Station	21	47	37.80	83	55	22.10
5		Khokelmal (Reported Only)	Reference Station						
6		Rampur Sub Area (Reported Only)	Reference Station						
7	Lajkura	Near Project Office	Compliance Station	21	49	21.40	83	54	53.50
8		Near South Coal Stock	Compliance Station	21	48	51.50	83	54	2.60
9		VIP Guest House, IB Valley	Reference Station	21	50	11.80	83	54	52.20
10		Khokelmal	Reference Station	21	49	18.20	83	52	52.00
11		Chuakani	Reference Station	21	50	24.44	83	53	53.53
12	Lilari	Near Lilari Magazine House	Compliance Station	21	46	42.20	83	51	29.20
13	Lakhanpur	Near Lilari Nallah Pump House	Compliance Station	21	46	37.80	83	51	1.30
14		Near Quarry 3	Compliance Station	21	47	21.50	83	49	19.50
15		South of Quarry 6	Reference Station	21	43	51.90	83	49	49.50
16		South West of Quarry 5	Reference Station	21	42	52.30	83	47	5.10
17	Belpahar	Near Magazine House	Compliance Station	21	44	50.00	83	51	35.15
18		Near Central Workshop	Compliance Station	21	46	20.00	83	52	24.40
19		South of the Mine	Reference Station	21	42	45.30	83	50	45.70
20		East of the Mine	Reference Station	21	43	19.70	83	50	23.90
21	Basundhara (W)	North of the Sardega Railway Siding, Kulapada	Compliance Station	22	4	16.10	83	42	37.00
22		West of Coal Stock, Near Golf Course	Compliance Station	22	3	49.60	83	44	19.70
23		South West of Working face Gopalpur Village, Near CMPDI Camp	Compliance Station	22	3	15.80	83	42	17.50
24		Sarangijharia Village	Reference Station	22	6	17.58	83	43	37.56
25		Ratansara Village	Reference Station	22	3	22.48	83	40	19.20
26	Kulda	External CT Road, Barpali	Compliance Station	22	2	13.96	83	46	48.90
27		North of CHP, Teleimal	Reference Station	22	2	55.34	83	46	54.50
28		South West of Working Face, Chakarpur	Reference Station	22	1	47.90	83	41	58.20
29		Bilaimunda Village	Reference Station	22	2	2.99	83	36	48.21
30	Garjanbahal OCP	Karikachar Village	Compliance Station	22	0	54.00	83	44	40.40
31		Garjanbahal Village	Compliance Station	22	0	42.72	83	45	48.80
32		KAN-1 Near Coal Sampling Lab	Compliance Station	21	52	42.60	83	43	46.60
33		West of working face, Bihaumunda	Reference Station	22	0	19.07	83	43	58.63

34		South-East of Working Face, Kutabaga	Reference Station	21	59	40.10	83	44	28.30
35	Orient Mine No. 1 & 2	Orient Mine No. 1 & 2	Compliance Station	21	50	1.20	83	55	4.40
36		VIP Guest House, IB Valley (Reported only)	Reference Station						
37	Orient Mine No. 3	Orient Mine No. 3	Compliance Station	21	50	40.80	83	54	29.30
38	HBI Mine	HBI Mine	Compliance Station	21	46	56.70	83	54	52.80
39		Bundia Colony Pump House	Compliance Station	21	47	20.60	83	54	56.50
40		Rampur Officers Guest House	Reference Station	21	48	5.40	83	55	20.90
41		Rampur Sub Area	Reference Station	21	48	7.10	83	55	30.20
42	Orient Mine No. 4	Orient Mine No. 4	Compliance Station	21	51	36.60	83	54	41.50

Sampling stations covering ground water, surface water, effluent water, well water and piezometer were selected in the core and buffer zones of the projects. All samples were collected on in FY 2023-24.

Table 3: Details of Water Sampling stations for monitoring in Apr'23 to Mar'24

Sl. No.	Project (OCP/UG)	Name of Stations for monitoring Effluent Water	Latitude			Longitude		
			DD	MM	SS.SS	DD	MM	SS.SS
1	Samaleswari	Mine Sump Water	21	48	3.78	83	54	30.17
2		Inlet of ETP	21	48	2.77	83	54	30.38
3		Outlet of ETP	21	47	28.22	83	53	4.05
4	Lajkura	Inlet of ETP	21	49	30.15	83	54	50.74
5		Outlet of ETP	21	49	29.90	83	54	52.20
6		Inlet of MDTP	21	49	18.03	83	54	47.39
7		Outlet of MDTP	21	49	18.08	83	54	49.27
8		Mine Sump Water	21	49	28.27	83	53	53.47
9	Central Hospital	Discharge of Hospital	21	50	51.59	83	55	3.39
10	Lilari	Mine Sump Water	21	46	52.25	83	50	54.64
11	Lakhanpur	Intlet of Secondary Sedimentation Tank	21	46	9.14	83	51	1.08
12		Outlet of Secondary Sedimentation Tank	21	46	7.31	83	51	3.76
13		Inlet of ETP	21	46	9.89	83	50	58.16
14		Outlet of ETP	21	46	10.12	83	50	57.14
15		Mine Sump Water	21	46	42.04	83	50	5.50
16	Belpahar	Intlet of ETP	21	45	41.86	83	51	43.15
17		Outlet of ETP	21	45	40.77	83	51	44.67
18		ECO Tank	21	45	25.15	83	51	34.10
19		Mine Sump Water	21	45	57.01	83	51	12.08
20		Inlet of MDTP	21	46	1.01	83	51	44.60
21		Clear Water Tank of MDTP	21	46	1.01	83	51	44.60

22	Basundhara (W)	Inlet of Excavation Workshop, B(W) OCP	22	3	34.14	83	43	53.16
23		Outlet of Excavation Workshop, B(W) OCP	22	3	34.67	83	43	52.22
24		M1-Basundhara (E) OCP's Sump	22	3	9.61	83	43	52.20
25		Basundhara (W) OCP Mine Sump	22	3	52.51	83	42	24.10
26	Kulda	Inlet of ETP	22	2	5.55	83	45	9.71
27		Final Outlet of ETP	22	2	5.60	83	45	8.58
28		Mine Sump Water near Kulda Nursery	22	2	9.38	83	44	45.92
29	Garjanbahal	Inlet of Settling Tank (Kanika Siding)	21	52	39.54	83	43	58.33
30		Outlet of Settling Tank (Kanika Siding)	21	52	40.51	83	43	58.18
31		Mine Sump Water	22	1	23.84	83	45	30.17
32	Orient Mine No. 1 & 2	Mine Sump of Mine No. 2	21	50	5.77	83	55	8.26
33	Orient Mine No. 3	Mine Sump of Mine No. 3	21	50	44.53	83	54	12.28
34	HBI Mine	Mine Sump of HBM	21	47	20.88	83	54	56.99
35	Orient Mine No. 4	Mine Sump of Mine No. 4	21	51	39.01	83	54	54.98
36	Samleswari	STP Inlet	21	48	10.55	83	54	58.25
37		STP Outlet	21	48	9.31	83	54	58.35
38	Lajkura	STP Inlet	21	49	54.85	83	54	51.00
39		STP Outlet	21	49	55.55	83	54	51.39
40	Belpahar	STP Inlet	21	45	3.08	83	51	45.05
41		Clear Water Tank of Sewage Treatment Plant	21	45	3.18	83	51	44.24

Sl. No.	Project (OCP/UG)	Name of the Station for monitoring Surface Water	Latitude			Longitude		
			DD	MM	SS.SS	DD	MM	SS.SS
1	Samaleswari	Pandren Nallah near Global Washery	21	46	49.83	83	53	18.03
2		Pandren Nallah Before Confluence Point with Lilari Nallah, Downstream	21	45	58.92	83	54	55.12
3		Lajkura Pond Water	21	48	33.59	83	54	28.69
4	Lajkura	U/S of Baghmara Nala at Discharge Point	21	49	40.55	83	54	43.81
5		D/S of Baghmara Nala at Discharge Point	21	49	40.55	83	54	43.81
6	Lakhanpur	Pulijhor Stream Near Tingismal Village (u/s of Lakhanpur OCP)	21	47	9.10	83	50	21.89
7		Pulijhor Stream Near Darlipalil Village before Confluence to Lilari Nallah (d/s of Lakhanpur OCP)	21	46	10.87	83	51	50.07
8		Lilari Nallah Near Kudaloi Village (u/s of Lakhanpur OCP)	21	48	14.92	83	49	48.08
9		Lilari Nallah Near Lilari Bridge Village (d/s of Lakhanpur OCP)	21	46	10.59	83	51	14.54
10		Karlajori Pond	21	45	1.10	83	48	36.54

11	Belpahar	Adhapada Village	21	42	45.30	83	50	45.70
12	Basundhara (W)	Basundhara River u/s point near Tiklipara	22	3	37.38	83	44	43.64
13		Basundhara River d/s point near Tiklipara	22	3	37.38	83	44	43.64
14	Kulda	Basundhara River near Bankibahal bridge as u/s water	22	2	24.83	83	44	52.40
15		Basundhara River near Barpali Village as d/s water	22	1	55.65	83	46	56.86
16		Chattanjhor nallah near Tumulia Village as u/s water	22	1	40.41	83	43	27.78
17		Chattanjhor nallah near Siarmal Village as d/s water	22	2	22.04	83	43	32.65
18		Kund Pond water	22	1	21.81	83	42	35.40
19	Garjanbahal	Basundhara River near Bandhpali Village as d/s water	22	0	36.12	83	49	59.93
20		Basundhara River near Bankibahal bridge as u/s water	22	2	24.83	83	44	52.40
21		Basundhara River near Barpali Village as d/s water	22	1	55.65	83	46	56.86
22	Orient Mine No. 1 & 2	U/S of Baghmara Nala at Discharge Point	21	49	40.55	83	54	43.81
23		D/S of Baghmara Nala at Discharge Point	21	49	40.55	83	54	43.81
24	Orient Mine No. 3	Pond Water at Budhijam Village	21	50	12.97	83	53	57.52
25	HBI	IB River near Kutabaga Village at Bridge Point	21	47	26.79	83	56	16.25
26	Orient Mine No. 4	IB River Near Charbhati Village as u/s Water for IB Valley Coalfield	21	53	33.67	83	55	48.21
27		IB River Bridge of NH200 at Gondghora Village as u/s of Orient Area	21	51	48.45	83	56	50.75

Sl. NO	Project (OCP/UG)	Name of Station for monitoring Well Water	Latitude			Longitude		
			DD	MM	SS.SS	DD	MM	SS.SS
1	Samleswari	Kudopali Village Well	21	47	18.6	83	54	32.2
2		Lajkura Village Well	21	48	33.7	83	54	35.4
3	Lajkura	Adarsh Nagar Colony Well	21	49	54.9	83	54	51.0
4		Chhualiberna Village Well	21	49	27.3	83	52	58.4
5	Lakhanpur	Kansar Village Well	21	43	55.2	83	49	46.0
6		Khairkuni Village Well	21	46	50.8	83	49	30.3
7	Belpahar	Jurabaga Village Well	21	46	53.6	83	51	59.3
8		Ubuda Village Well	21	44	36.8	83	49	49.6
9	Basundhara (W)	Sardega Village Well	22	4	14.1	83	43	19.7
10		Tiklipara Village Well	22	3	50.2	83	44	45.0
11	Kulda	Well at Sahaspur	21	59	44.3	83	43	59.7
12		Well at Teleimal	22	2	56.7	83	46	49.7
13	Garjhanbahal	Well at Garjanbahal Village	22	0	42.2	83	45	58.0

14		South West of Coalface, Bihaimunda	22	0	19.07	83	43	58.63
15	Orient Mine No. 1 & 2	Madhuban Nagar Village Well	21	50	9.7	83	54	12.8
16		Chhualiberna Village Well	21	49	27.3	83	52	58.4
17	Orient Mine no. 3	Lajkura Village Well	21	48	33.7	83	54	35.4
18	HBI	Chingriguda Village Well	21	48	0.6	83	52	36.2
19		Kudopali Village Well	21	47	18.6	83	54	32.2
20		Anlapali Village Well	21	46	59.0	83	54	19.3
21	Orient Mine No. 4	Adibasi Basti Village Well	21	51	21.2	83	54	51.7
22		Jhopadi Basti Village Well	21	51	42.2	83	54	59.8

Sl. No.	OCP/UG/HQ	Name of Ground /Drinking Water station
1	Samleswari	Well Water from Kudopali
2		Tap Water from Samleswari OCP Colony
3		Water from IWSS, IB Valley Area
4		Well Water from Lajkura
5	Lajkura	Madhuban Nagar Well Water
6		Adarsh Nagar Colony Well Water
7		Chhualiberna Village Well Water
8		VIP Guest House Tap Water
9	Lakhanpur	Tap Water at LKP Project Office
10	Belpahar	IWSS Outlet
11	Basundhara (W)	Water Treatment Plant Clear Water reservoir
12	Kulda	Well at Sahaspur
13		Well at Teleimal
14	Garjhanbahal	Well at Garjanbahal Village
15		South West of Coalface, Bihaimunda
16	Orient Mine No. 1 & 2	Tap Water at Budhijam Colony
17		Mine No. 1 & 2 Filter Plant
18	Orient Mine No. 3	Mine No. 3 Filter Plant
19	HBI Mine	Tap Water at Rampur Colony
20		HBI Water Filter Plant
21	MCL(HQ)	Tap Water at DAV School (Anand Vihar)
22		Tap Water at Cooperate Office (Jagruthi Vihar)
23		Inlet to Water Treatment Plant (Anand Vihar)
24		Outlet of Water Treatment Plant (Anand Vihar)

Sl. No.	Project (OCP/UG)	Piezometer No.	Latitude			Longitude			Location of Piezometer
			DD	MM	SS.SS	DD	MM	SS.SS	
1	Samleswari	MIP 04	21	47	56.00	83	56	24.00	Inside Kutabaga Church
2	Lajkura	MIP 02	21	47	56.60	83	52	29.50	Jamkani Primary School
3	Lilari	MIP 06	21	46	42.30	83	51	31.00	Near Lilari PO Office
4	Lakhanpur	MIP 09	21	45	49.40	83	47	42.50	Junion Forest Office
5		MIP 10	21	46	51.20	83	48	47.70	Dahaldera Primary School
6	Belpahar	MIP 07	21	45	11.00	83	52	6.10	Bandhbahal DAV School
7		MIP 08	21	43	9.40	83	50	4.00	Kusraloi Village School
8	Basundhara (W)	MIP 15	22	4	9.70	83	43	19.60	School Sardega Village
9		MIP 16	22	4	12.00	83	42	36.70	Kulapada Village
10		MIP 13	22	1	7.30	83	43	10.00	Tumulia College
11		MIP 17	22	3	15.80	83	42	17.50	CMPDI Gopalpur Camp
12	Kulda	MIP 01	22	0	42.00	83	45	52.70	Garjanbahal Primary School
13		MIP 11	22	0	50.00	83	44	42.70	Karlikachhar Primary School
14		MIP 12	22	2	0.00	83	45	15.40	Kulda PO Office
15		MIP 14	22	1	55.40	83	43	46.40	Kulda Primary School
16	Garjanbahal	MIP 01	22	0	42.00	83	45	52.70	Garjanbahal Primary School
17		MIP 11	22	0	50.00	83	44	42.70	Karlikachhar Primary School
18	Orient Mine No. 1 & 2	MIP 03	21	51	15.80	83	55	37.50	IB Valley GM Office
19		MIP 05	21	49	5.60	83	52	44.20	Narshingh High School, Chhualiberna
20	HBI	MIP 05	21	49	5.60	83	52	44.20	Narshingh High School, Chhualiberna

Table 4: Details of Noise Level Measurement Stations in Apr'23 to Mar'24

Sl. No.	Project (OCP/UG)	Name of the station
1	Samleswari	West of the Mine
2		South of the Mine
3		East of the Mine
4		South East of the Mine
5		Khokelmal (Reported)
6		Rampur Sub Area
7	Lajkura	Near Project Office
8		Near South Coal Stock
9		VIP guest house, IB Valley
10		Khokelmal
11		Chuakani
12	Lilari	Near Lilari Magazine House
13	Lakhanpur	Near Lilari Nallah Pump House

14		Near Quarry 3
15		South of Quarry 6
16		South West of Quarry 5
17	Belpahar	Near Magazine House
18		Near Central Workshop
19		South of the Mine
20		East of the Mine
21	Basundhara(W)	North of the Sardega Railway Siding, Kulapada
22		West of Coal Stock, Near Golf Course
23		South West of Working face Gopalpur Village, Near CMPDI Camp
24		Sarangijharia Village
25		Ratansara Village
26	Kulda	External CT Road
27		North of CHP
28	Garjanbahal OCP	Karlikachar Village
29		Garjanbahal Village
30	Orient Mine No. 1 & 2	Orient Mine No. 1 & 2
31		VIP guest house, IB Valley (Reported)
32	Orient Mine No. 3	Orient Mine No. 3
33	HBI Mine	HBI Mine
34		Bundia Colony Pump House
35		Rampur Officers Guest House
36		Rampur Sub Area (Reported)
37	Orient Mine No. 4	Orient Mine No. 4

6.1: STUDY AREA



Figure 1 Satellite image of mines in Jharsuguda district with mine boundaries

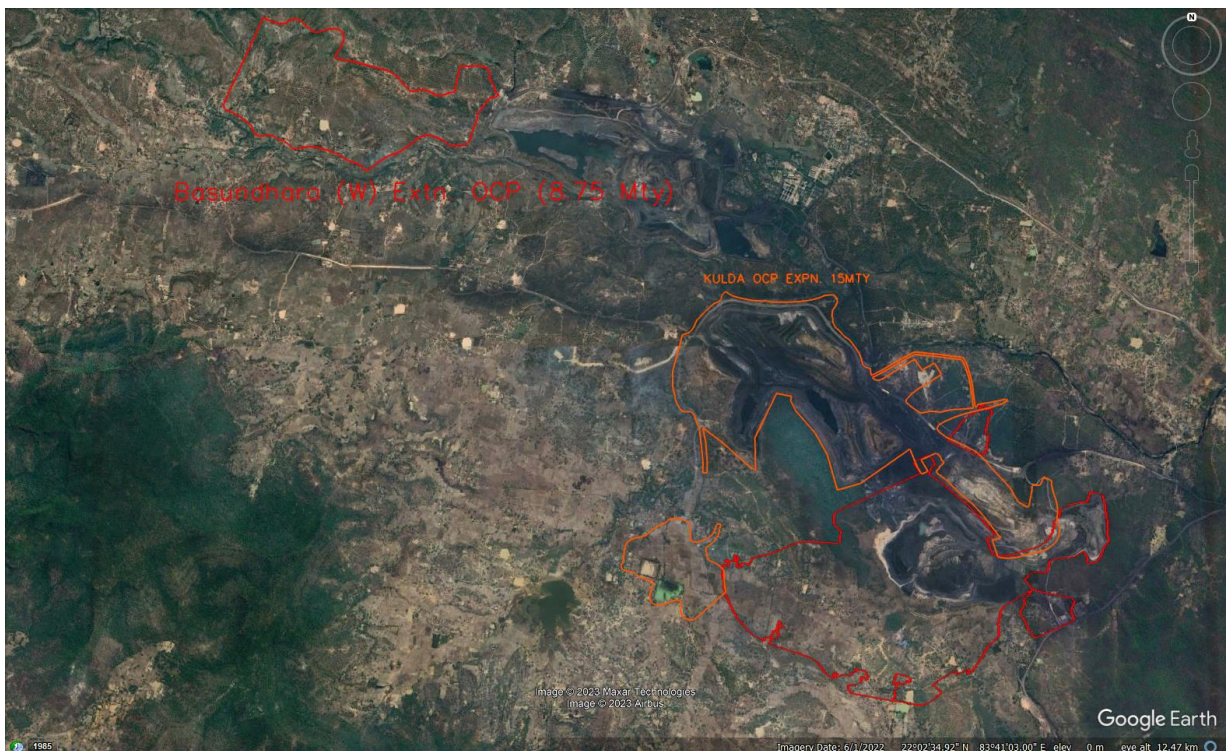


Figure 2 Satellite image of mines in Sundargarh district with mine boundaries

SECTION 7: RATIONALE BEHIND SAMPLING

AAQM Sampling: Ambient Air Quality Monitoring stations were selected as per the Guidelines mentioned in IS: 5182 (Part-14): 2000 for Rapid Environmental Impact Assessment in the project area. On the basis of wind rose pattern, these AAQM stations were so selected that minimum two stations are kept in core zone aka compliance station, two stations are kept in buffer zone/ residential area aka reference stations. Representative samples are taken by distributing them specially in upwind direction, downwind direction and cross wind direction.

Water Sampling: Water is one of the most important and basic natural resources. In order to assess the water quality around the project site, accurate and adequate information regarding the physical, chemical & microbiological characteristics of water would be required. Keeping this in the mind, we collect different types of water samples viz, Drinking Water Sample from village wells, Surface Water Sample from Ib River & its tributaries (Up-Stream & Down-Stream), Ponds and Effluent water sample from OCP mine sump water & domestic & effluent treatment plants. Well water level was measured quarterly. Qualitative & quantitative analysis of samples from piezometers was also done.

Noise Sampling: To assess the noise level, different noise monitoring stations beside the AAQM stations were selected and monitored as per “The Protocol for Ambient Level Noise Monitoring, CPCB” once in a fortnight on Day & Night basis.



AMBIENT AIR MONITORING REPORT

8.1 CONCEPT & SCOPE

The Ambient Air monitoring encompasses the results and statistical evaluation of the data monitored at 42 different locations in IB coalfield of MCL. The scope of study includes monitoring for ambient air for FY 2023-24.

The AAQM Stations were selected in such a manner that stations were spread in:

1. Core-zone.
2. Upwind direction.
3. Down wind direction.
4. Crosswind direction.

Different parameters like PM₁₀, PM_{2.5}, Oxides of Sulphur, Oxides of Nitrogen, Ozone, Ammonia, CO, Lead, Nickel, Arsenic, and Benzene, Benzoalpha pyrene Mercury, Chromium and Cadmium were monitored for representing the status of ambient air quality within the study area.

8.2 FREQUENCY OF SAMPLING

Frequency of sampling for AAQM is as follows:

Parameters	Frequency of each location
PM ₁₀ , PM _{2.5} , Oxides of Sulphur, Oxides of Nitrogen	Fortnightly for compliance stations & Twice in a week for reference stations
Ozone, Ammonia, CO, Lead, Nickel, Arsenic, Benzo (α) Pyrene & Benzene	Twice in a week for reference stations
Mercury, Chromium and Cadmium	Half yearly

8.3 SAMPLING DURATION

Sr. No.	Parameters	Sampling Duration (Hr.)
1	Particulate Matter (PM ₁₀)	24
2	Particulate Matter (PM _{2.5})	24
3	Oxides of Sulphur (SO ₂)	24
4	Oxides of Nitrogen (NO _x)	24
5	Ammonia (NH ₃)	24
6	Ozone (O ₃)	1
7	Carbon Monoxide (CO)	8
8	Benzene	4
9	Benzo (α) Pyrene	24
10	Lead (Pb)	24
11	Nickel (Ni)	24
12	Arsenic (As)	24
13	Mercury	24
14	Chromium	24
15	Cadmium	24

**PREPARED BY: CENTRAL MINE PLANNING & DESIGN
INSTITUTE LTD., RI VII, BHUBANESWAR**

8.4 AMBIENT AIR QUALITY MONITORING AT DIFFERENT LOCATIONS

AAQM Sampling: Ambient Air Quality Monitoring stations were selected as per the Guidelines mentioned in IS: 5182 (Part-14): 2000 for Rapid Environmental Impact Assessment in the project area. On the basis of wind rose pattern, these AAQM stations were so selected that minimum two stations are kept in core zone also known as compliance station, two stations are kept in buffer zone/ residential area also known as reference stations. Representative samples are taken by distributing them especially in upwind direction, downwind direction and cross wind direction.



Fig: 3 showing Air Sampling at a village



Fig:4 showing Air Sampling at a station in IBCF

8.5. AIR QUALITY PARAMETER ANALYSIS

Area: Ib valley Area

Project: Samleswari OCP

Monitoring Station: East of the Mine

Table:1

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2 5	SO2	NOx
06-Apr-23	195	94	45	15.67	20.61
21-Apr-23	194	95	44	10.5	15.67
12-May-23	184	88	39	15.55	17.85
26-May-23	188	91	42	10.5	10.72
03-Jun-23	180	86	38	11.01	13.12
16-Jun-23	188	90	41	11.48	13.45
01-Jul-23	178	88	38	21.29	23.75
21-Jul-23	184	90	39	13.15	11.64
05-Aug-23	186	89	40	21.29	20.09
21-Aug-23	202	96	45	17.58	13.89
06-Sep-23	198	95	44	10.28	17.6
22-Sep-23	180	88	38	19.89	16.93
07-Oct-23	258	158	61	11.97	13.99
21-Oct-23	241	148	50	13.89	17.36
07-Nov-23	244	148	52	10.49	10.63
30-Nov-23	243	140	50	10.92	13.59
06-Dec-23	225	144	52	14.11	17.88
20-Dec-23	234	142	55	14.11	15.69
05-Jan-24	226	142	52	14.56	18.52
20-Jan-24	254	163	66	12.1	10.71
03-Feb-24	252	158	62	14.54	14.37
15-Feb-24	274	164	66	11.24	13.21
04-Mar-24	242	148	57	15.54	18.54
16-Mar-24	236	134	53	15.56	13.56
Basic Stats	SPM	PM10	PM2 5	SO2	NOx
Maximum	274	164	66	21.29	23.75
Minimum	178	86	38	10.28	10.63
Average	214.0	118.0	48.1	13.9	15.5
Standard 24 hr	500	250		120	120

Area: Ib valley Area

Project: Samleswari OCP

Monitoring Station: West of the Mine

Table:2

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
05-Apr-23	198	95	46	14.35	12.39
21-Apr-23	186	91	40	12.62	17.6
12-May-23	194	94	44	16.52	17.41
26-May-23	202	96	48	13.58	19.28
03-Jun-23	183	87	39	11.35	11.74
16-Jun-23	195	92	43	16.9	12.23
01-Jul-23	198	94	45	22.19	15.68
21-Jul-23	202	97	46	14.12	11.02
05-Aug-23	198	93	45	22.19	14.7
21-Aug-23	196	94	43	13.56	16.52
06-Sep-23	192	91	43	21.79	18.12
22-Sep-23	202	94	45	23.51	18.71
07-Oct-23	263	162	64	18.37	16.8
21-Oct-23	246	152	53	12.52	16.58
07-Nov-23	256	162	58	16.08	13.31
29-Nov-23	246	146	53	13.52	15.73
06-Dec-23	232	152	55	16.44	17
20-Dec-23	237	146	58	15.68	17.38
05-Jan-24	232	148	56	12.26	15.58
20-Jan-24	236	144	56	10.75	12.56
03-Feb-24	232	144	56	13.74	10.9
15-Feb-24	268	156	65	14.2	13.76
04-Mar-24	235	168	63	16.98	17.58
16-Mar-24	235	153	58	17.56	12.56
Basic Stats	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	268	162	65	23.51	19.28
Minimum	183	87	39	10.75	10.9
Average	217.9	119.5	50.0	15.7	15.2
Standard 24 hr	500	250		120	120

Area: Ib valley

Project: Samleswari OCP

Table:3

Monitoring Station: South of the Mine

All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2 5	SO2	NOx
05-Apr-23	191	93	43	13.1	15.99
21-Apr-23	176	86	35	14.77	11.72
12-May-23	189	92	42	10.52	13.78
26-May-23	195	93	44	14.77	15.62
03-Jun-23	196	94	44	15.25	15.28
16-Jun-23	180	87	38	10.37	16.59
01-Jul-23	186	92	40	16.19	19.1
21-Jul-23	190	91	42	13.61	19.56
05-Aug-23	190	91	42	16.19	16.49
21-Aug-23	182	88	39	11.52	14.96
06-Sep-23	164	84	32	16.45	14.41
22-Sep-23	186	92	40	11.94	12.61
07-Oct-23	274	168	68	16.76	15.95
21-Oct-23	252	161	56	15.12	20.25
07-Nov-23	235	142	48	12.91	17.54
29-Nov-23	252	155	56	14.65	12.92
06-Dec-23	238	162	60	11.8	11.32
20-Dec-23	245	166	62	12.32	16.74
05-Jan-24	246	162	64	13.78	16.74
20-Jan-24	242	156	62	12.58	13.57
03-Feb-24	245	155	60	12.17	11.3
15-Feb-24	248	148	56	14.44	10.47
04-Mar-24	216	132	48	18.54	15.36
16-Mar-24	216	116	46	16.19	13.56
Basic Stats	SPM	PM10	PM2 5	SO2	NOx
Maximum	274	168	68	16.76	20.25
Minimum	164	84	32	10.37	10.47
Average	213.7	120.8	48.8	13.7	15.1
Standard 24 hr	500	250		120	120

Area: Ib valley

Table:4

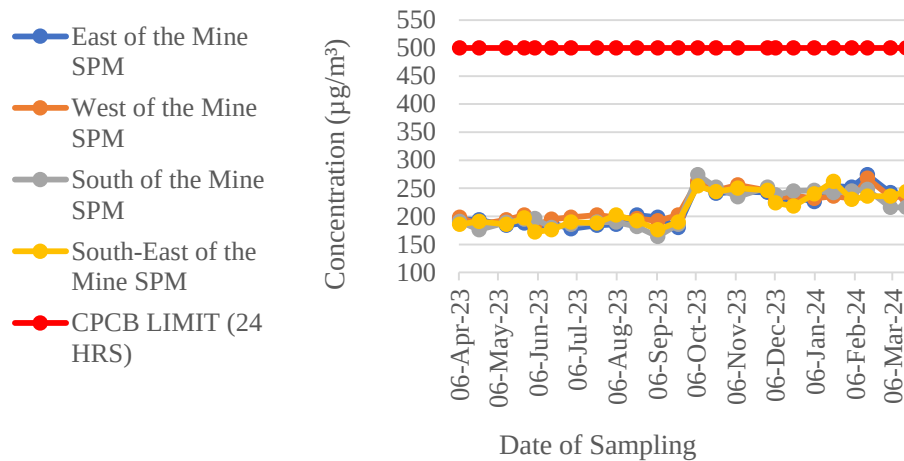
Project: Samleswari OCP

Monitoring Station: South-East of the Mine

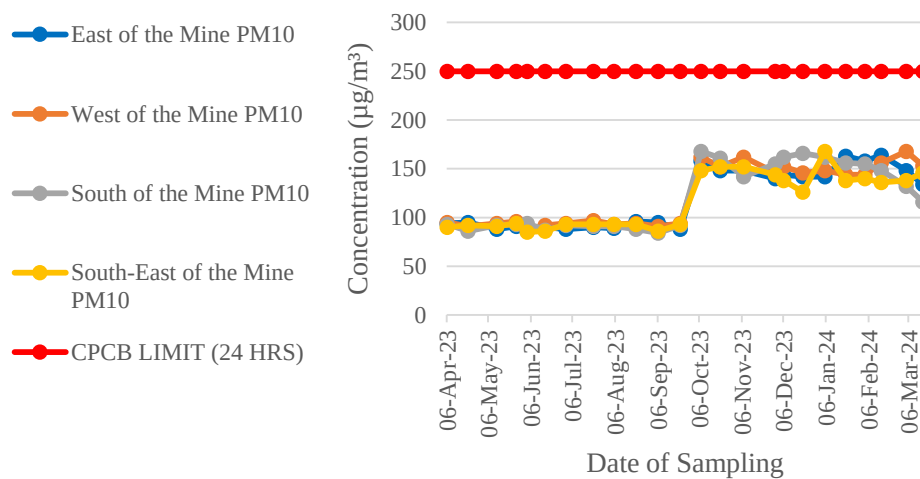
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2 5	SO2	NOx
06-Apr-23	186	90	40	14.37	12.41
21-Apr-23	191	92	42	10.12	12.05
12-May-23	186	91	40	11.85	16.52
26-May-23	197	94	45	11.49	14.89
03-Jun-23	172	85	35	20.32	15.57
16-Jun-23	176	86	37	12.68	11.97
01-Jul-23	190	93	42	24.35	13
21-Jul-23	188	93	41	17.04	16.06
05-Aug-23	202	93	46	24.35	19.5
21-Aug-23	192	93	42	14.21	16.58
06-Sep-23	176	86	37	14.6	21.59
22-Sep-23	190	93	42	21.79	18.25
07-Oct-23	254	148	57	11.77	16.59
21-Oct-23	244	152	52	17.58	19.35
07-Nov-23	250	152	55	15.47	13.51
30-Nov-23	246	144	52	10.94	10.86
06-Dec-23	224	138	50	15.9	14.06
20-Dec-23	218	126	48	15.9	18.24
05-Jan-24	240	168	61	16.32	17.58
20-Jan-24	262	138	55	15.97	15.05
03-Feb-24	230	140	55	11.39	14.99
15-Feb-24	236	136	52	11.45	14.25
04-Mar-24	236	138	51	16.58	17.58
16-Mar-24	244	146	54	12.56	13.23
Basic Stats	SPM	PM10	PM2 5	SO2	NOx
Maximum	262	168	61	24.35	21.59
Minimum	172	85	35	10.12	10.86
Average	211.4	115.0	46.6	15.4	15.6
Standard 24 hr	500	250		120	120

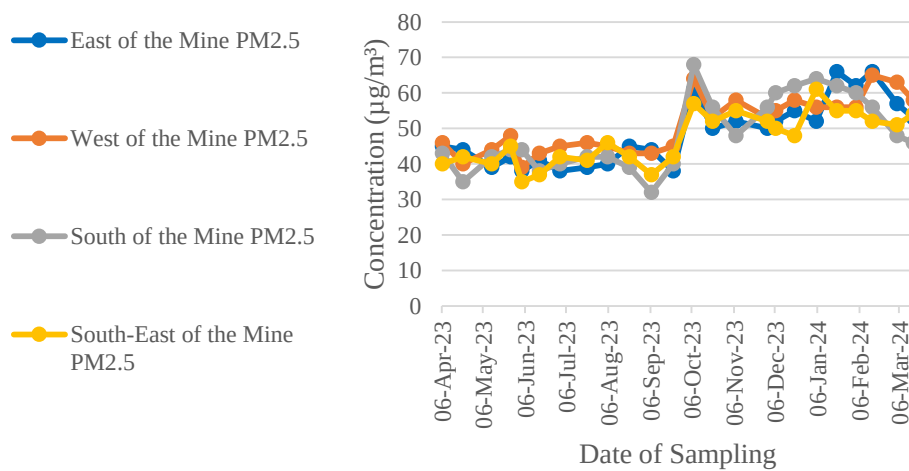
Graph Showing SPM for Samleswari OCP



Graph Showing PM10 for Samleswari OCP



Graph Showing PM2.5 for Samleswari OCP



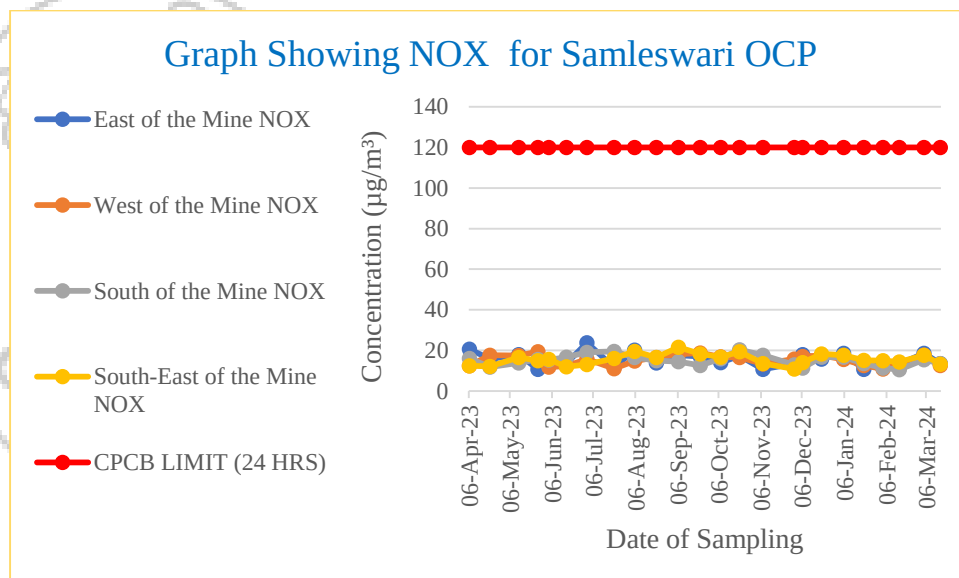
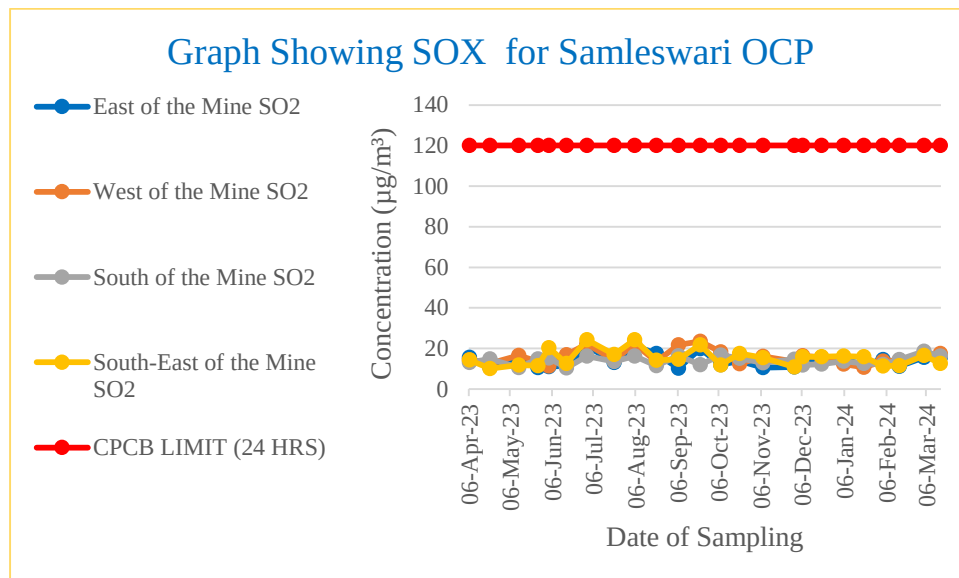


Table:5

Area: Ib valley Area**Project:** Samleswari OCP**Monitoring Station:** Khokelmal (Reported only)All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NO _x
03-Apr-23	136	62	21	15	15
04-Apr-23	138	63	23	16	12
10-Apr-23	146	68	25	14	18
11-Apr-23	154	74	27	16	20
17-Apr-23	162	80	30	14	14
18-Apr-23	164	83	31	17	20
24-Apr-23	158	75	29	19	21
25-Apr-23	156	73	28	13	20
02-May-23	146	64	25	16.52	18.45
03-May-23	136	58	21	12.65	12.56
06-May-23	150	68	26	14.32	19.57
08-May-23	142	61	23	14.56	16.58
16-May-23	156	73	28	15.22	16.66
17-May-23	154	71	27	11.6	11.38
22-May-23	163	81	31	16.56	17.51
23-May-23	153	73	27	13.39	19.47
29-May-23	158	76	29	17.4	20.5
30-May-23	149	68	26	13.94	12.05
05-Jun-23	143	62	24	13.38	14.53
06-Jun-23	162	81	31	16.57	12.85
14-Jun-23	154	71	27	22.33	15.7
15-Jun-23	146	65	25	18.77	12.27
21-Jun-23	164	80	32	17.66	16.75
22-Jun-23	160	78	30	12.13	16.73
27-Jun-23	168	83	34	15.42	21.39
28-Jun-23	157	76	29	14.63	19.67
03-Jul-23	146	66	25	23.55	18.72
04-Jul-23	137	59	22	10.33	15.51
10-Jul-23	149	69	26	23.61	20.52
11-Jul-23	155	74	28	14.71	21.2
17-Jul-23	158	76	29	13.32	10.47
18-Jul-23	150	68	26	16.2	16.11
24-Jul-23	164	83	32	11.84	19.9
25-Jul-23	162	79	30	14.97	16.11
01-Aug-23	159	76	29	11.08	17.68
02-Aug-23	162	78	31	24.53	15.51
07-Aug-23	152	73	27	15.53	16.79
08-Aug-23	164	81	32	11.18	13.25
16-Aug-23	164	83	32	13.52	16.36
17-Aug-23	158	77	29	11.88	16.87
23-Aug-23	162	83	31	17.58	10.52
24-Aug-23	157	75	29	14.58	16.65
29-Aug-23	152	73	27	13.99	12.1
30-Aug-23	161	83	32	11.52	16.85

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01-Sep-23	136	58	21	14.68	15.27
02-Sep-23	146	66	25	13.94	18.39
08-Sep-23	143	62	23	18.79	19.71
09-Sep-23	162	82	31	13.5	12.28
18-Sep-23	146	66	25	17.07	15.98
19-Sep-23	137	59	22	14.48	14.56
25-Sep-23	149	69	26	18	21.86
26-Sep-23	155	74	28	10.26	23.69
03-Oct-23	159	76	28	11.99	19.44
04-Oct-23	148	68	25	11.42	17.75
09-Oct-23	156	75	27	22.69	21.59
10-Oct-23	146	67	24	16.22	24.02
16-Oct-23	166	83	32	16.16	17.3
17-Oct-23	172	88	35	12.63	16.38
25-Oct-23	152	70	26	14.01	15.76
26-Oct-23	162	82	30	10.74	11.76
01-Nov-23	182	85	33	13.44	12.75
02-Nov-23	212	95	46	15.61	13.63
09-Nov-23	188	86	37	11.08	13.51
10-Nov-23	176	82	30	13.12	17.01
16-Nov-23	172	80	30	13.69	13.38
17-Nov-23	166	76	28	16.94	13.53
24-Nov-23	174	83	32	16.05	16.28
25-Nov-23	178	86	35	19.65	18.62
29-Nov-23	165	75	28	14.21	18.72
30-Nov-23	170	81	30	12.64	14.77
04-Dec-23	171	81	32	16.03	20.06
05-Dec-23	168	83	30	18.1	14.07
11-Dec-23	177	85	34	13.75	12.42
12-Dec-23	180	87	35	11.32	14.31
18-Dec-23	198	91	42	14.36	19.35
19-Dec-23	192	87	39	15.36	15.65
26-Dec-23	188	86	38	15.38	13.27
27-Dec-23	196	91	40	16.21	17.32
01-Jan-24	194	88	39	14.98	16.52
02-Jan-24	156	74	27	13.85	15.98
08-Jan-24	164	83	31	12.58	14.65
09-Jan-24	175	85	36	12.98	14.58
16-Jan-24	164	84	32	13.87	10.91
17-Jan-24	158	79	29	13.84	13.77
22-Jan-24	172	84	35	10.85	18.25
23-Jan-24	165	83	32	13.16	14.16
30-Jan-24	158	82	30	14.33	15.75
31-Jan-24	178	85	37	11.52	10.16
01-Feb-24	162	78	30	14.98	19.75
02-Feb-24	155	72	27	15.43	17.36
07-Feb-24	164	83	32	12.73	12.15
08-Feb-24	178	89	37	13.72	10.3
16-Feb-24	176	88	35	14.33	11.85
17-Feb-24	165	84	31	15.14	15.95
26-Feb-24	184	87	36	17.86	18.84
27-Feb-24	166	84	32	18.53	16.28
07-Mar-24	174	83	32	10.56	12.23
08-Mar-24	163	76	28	12.52	16.54

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14-Mar-24	180	86	35	15.64	18.54
15-Mar-24	196	91	39	15.42	14.57
20-Mar-24	180	83	35	15.56	18.72
21-Mar-24	164	76	28	10.33	15.51
27-Mar-24	170	86	33	15.98	12.56
28-Mar-24	190	91	39	14.71	21.2
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	212	95	46	24.53	24.02
Minimum	136	58	21	10.26	10.16
Average	162.75	77.42	30.10	14.85	16.22
Standard 24 hr		100	60	80	80



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Table:6

Area: Ib valley Area**Project:** Samleswari OCP**Monitoring Station:** Rampur Sub Area(Reported Only)All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NO _x
03-Apr-23	150	70	26	13	20
04-Apr-23	137	63	22	12	15
10-Apr-23	155	76	28	10	11
11-Apr-23	163	82	30	13	10
17-Apr-23	158	76	29	17	22
18-Apr-23	161	79	30	18	16
24-Apr-23	163	82	32	22	15
25-Apr-23	158	76	29	13	16
02-May-23	162	81	30	16.59	22.58
03-May-23	149	68	26	10.25	16.32
08-May-23	155	73	28	17.58	16.58
09-May-23	159	75	29	11.56	16.85
16-May-23	166	82	33	14.95	20.09
17-May-23	162	79	30	13.56	14.64
22-May-23	155	75	28	11.93	22.62
23-May-23	153	72	27	12.04	15.53
29-May-23	137	58	21	17.41	18.29
30-May-23	146	66	25	13.53	12.84
05-Jun-23	136	60	21	25.15	18.67
06-Jun-23	149	68	26	17.84	14.35
14-Jun-23	155	73	28	16.66	13.64
15-Jun-23	161	79	30	13.1	6.6
21-Jun-23	163	67	25	12.84	16.82
22-Jun-23	143	81	30	12.37	12.45
27-Jun-23	165	64	24	11.98	13
28-Jun-23	157	84	32	10.5	18.4
03-Jul-23	166	84	33	10.76	17.63
04-Jul-23	149	72	26	14.07	12.67
10-Jul-23	156	72	28	15.47	12.9
11-Jul-23	159	75	29	17.43	9.81
17-Jul-23	154	73	27	16.07	14.06
18-Jul-23	141	62	23	12.08	10.38
24-Jul-23	162	81	30	14.59	20.32
25-Jul-23	166	84	33	12.52	12.12
01-Aug-23	152	71	27	10.27	13.22
02-Aug-23	146	66	25	12.66	14.08
07-Aug-23	166	82	33	17.76	11.18
08-Aug-23	159	79	30	11.44	16.36
16-Aug-23	156	76	29	13.56	13.52
17-Aug-23	161	79	30	12.45	13.58
23-Aug-23	164	82	32	14.12	19.87
24-Aug-23	157	76	29	13.58	14.44
29-Aug-23	150	68	26	16.58	12.58
30-Aug-23	154	72	28	14.58	16.58

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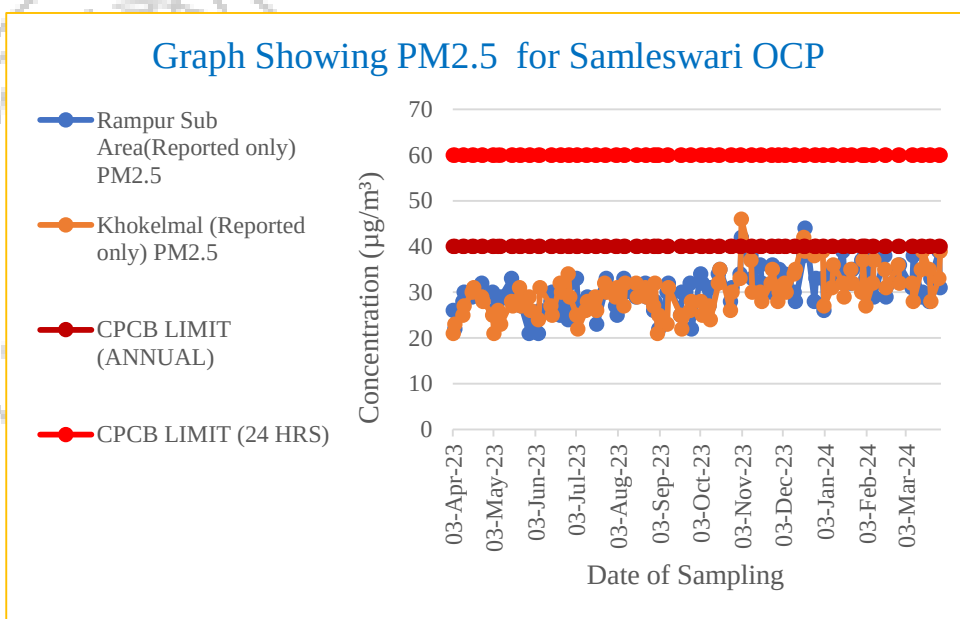
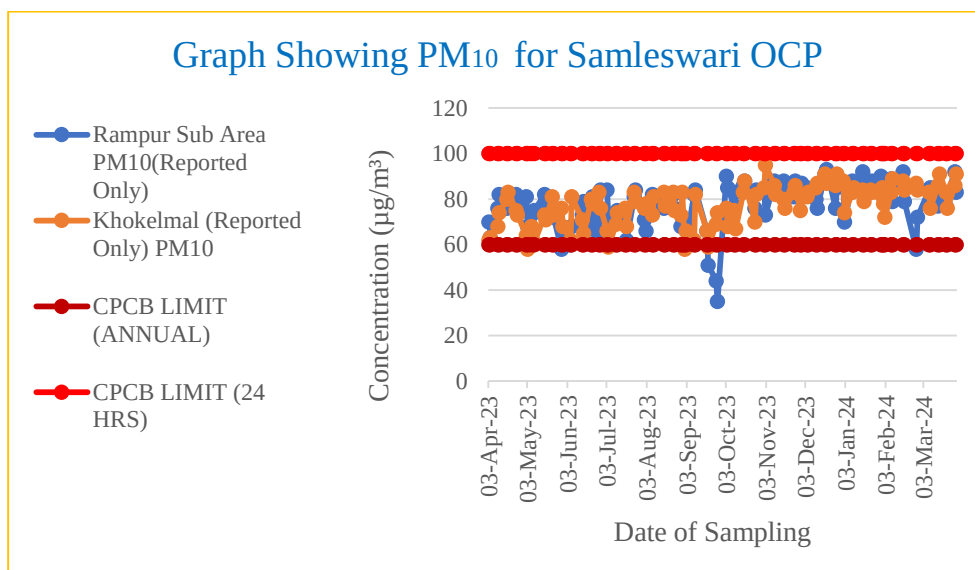
01-Sep-23	151	70	26	17.94	17.05
02-Sep-23	140	61	22	18.58	22.73
08-Sep-23	162	82	30	14.26	18.44
09-Sep-23	164	84	32	11.79	14.94
18-Sep-23	146	66	25	12.63	22.22
19-Sep-23	162	51	30	17.8	21.53
25-Sep-23	164	44	32	21.5	21.94
26-Sep-23	138	35	22	19.14	21.69
03-Oct-23	138	90	34	13.46	12.26
04-Oct-23	165	85	32	21.51	11.24
09-Oct-23	155	77	27	17.86	17.06
10-Oct-23	162	83	31	19.78	17.17
16-Oct-23	169	86	34	12.86	18.46
17-Oct-23	172	88	35	11.24	16.37
25-Oct-23	156	76	28	10.26	15.49
26-Oct-23	164	84	31	13.54	18.47
01-Nov-23	182	83	34	14.76	10.63
02-Nov-23	205	73	42	17.12	15.97
09-Nov-23	194	88	38	12.47	15.2
10-Nov-23	180	85	33	15.47	19.1
16-Nov-23	183	88	36	15.3	14.62
17-Nov-23	173	84	32	17.34	16.15
24-Nov-23	171	81	30	16.17	19.25
25-Nov-23	183	88	36	14.14	21.1
29-Nov-23	178	85	34	15.07	16.28
30-Nov-23	182	87	35	17.07	12.06
04-Dec-23	178	85	34	12.65	13.37
05-Dec-23	174	82	32	17.91	16.54
11-Dec-23	171	80	30	16	16.67
12-Dec-23	168	76	28	10.37	15.57
18-Dec-23	189	91	38	13.16	15.48
19-Dec-23	205	93	44	14.28	13.24
26-Dec-23	164	76	28	12.4	13.85
27-Dec-23	175	85	33	11.76	13.27
01-Jan-24	166	86	33	12.25	14.52
02-Jan-24	152	70	26	13.54	17.52
08-Jan-24	174	88	35	10.56	11.52
09-Jan-24	165	84	32	14.52	13.52
16-Jan-24	195	92	39	14.52	12.22
17-Jan-24	169	87	34	11.52	13.57
22-Jan-24	165	84	32	12.41	15.89
23-Jan-24	173	88	35	11.52	14.98
30-Jan-24	177	90	37	11.54	12.56
31-Jan-24	162	83	30	13.56	14.44
01-Feb-24	188	87	38	10.58	13.75
02-Feb-24	168	86	33	12.27	13.95
07-Feb-24	180	89	37	13.69	15.64
08-Feb-24	161	79	29	14.57	13.31
16-Feb-24	184	92	38	15.26	15.31
17-Feb-24	164	79	29	18.14	16.31
26-Feb-24	178	58	34	21.29	14.21
27-Feb-24	184	72	36	21.24	15.07
07-Mar-24	168	84	31	12.56	18.57
08-Mar-24	187	85	38	14.58	16.52

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14-Mar-24	165	77	29	16.59	11.56
15-Mar-24	173	82	30	14.58	14.58
20-Mar-24	164	77	28	14.26	18.44
21-Mar-24	176	82	33	11.79	14.94
27-Mar-24	195	92	39	15.37	17.04
28-Mar-24	173	83	31	12.56	14.78
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	205	93	44	25.15	22.73
Minimum	136	35	21	10	6.6
Average	164.5	77.8	30.7	14.5	15.6
Standard 24 hr		100	60	80	80



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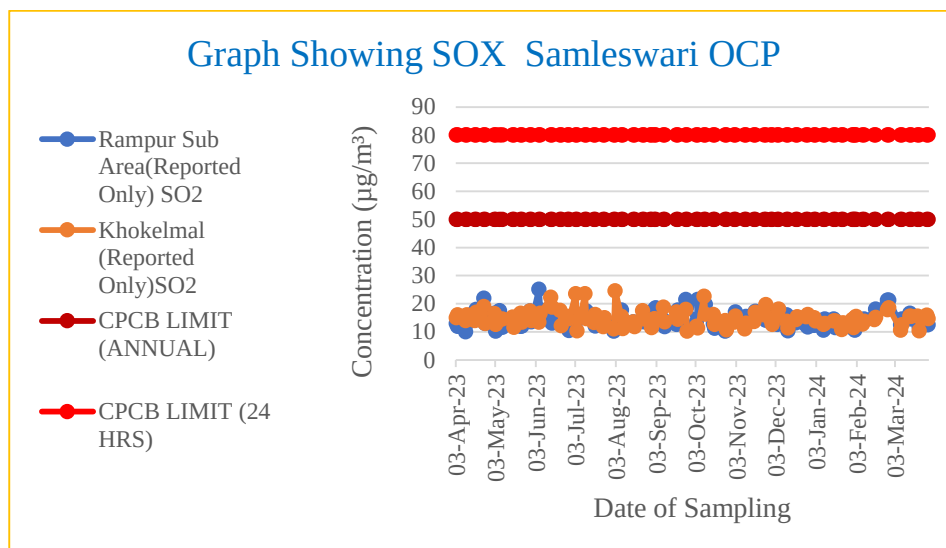


Table:7

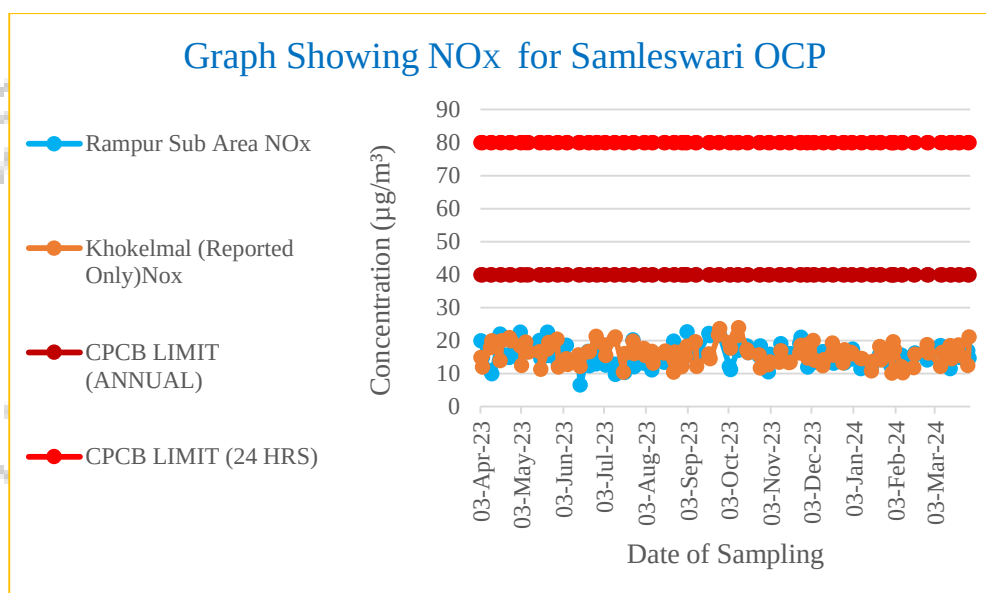


Table: 7

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** Near Project OfficeAll values are in $\mu\text{g}/\text{m}^3$

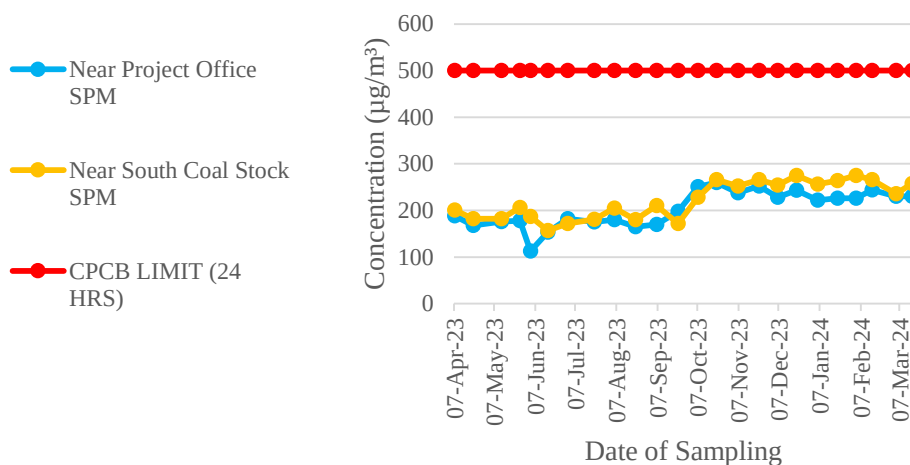
Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	188	93	42	16.05	14.63
21-Apr-23	168	84	33	16.48	20.04
12-May-23	176	85	36	12.74	15.65
26-May-23	178	86	38	15.13	20.91
03-Jun-23	113	68	26	14.74	16.6
16-Jun-23	153	70	27	19.31	21.43
01-Jul-23	182	88	39	14.97	15.51
21-Jul-23	175	85	36	13.11	22.55
05-Aug-23	180	86	38	14.97	16.28
21-Aug-23	165	84	33	16.88	14.59
06-Sep-23	170	84	35	10.32	19.84
22-Sep-23	198	92	44	24.98	17.33
07-Oct-23	251	145	55	15.51	11.87
21-Oct-23	260	158	55	12.18	15.74
06-Nov-23	238	148	49	14.76	15.94
22-Nov-23	252	152	55	15.37	15.59
06-Dec-23	228	146	54	13.03	18.87
20-Dec-23	243	162	59	14.87	17.98
05-Jan-24	222	138	50	13.58	17.89
20-Jan-24	226	132	54	12.94	22.25
03-Feb-24	226	134	52	12.05	16.62
15-Feb-24	244	142	55	15.13	15.96
04-Mar-24	230	134	52	13.52	16.28
16-Mar-24	230	108	49	14.97	15.51
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	260	162	59	24.98	22.55
Minimum	113	68	26	10.32	11.87
Average	201.6	111.9	43.9	15.0	17.5
Standard 24 hr	500	250		120	120

Table: 8

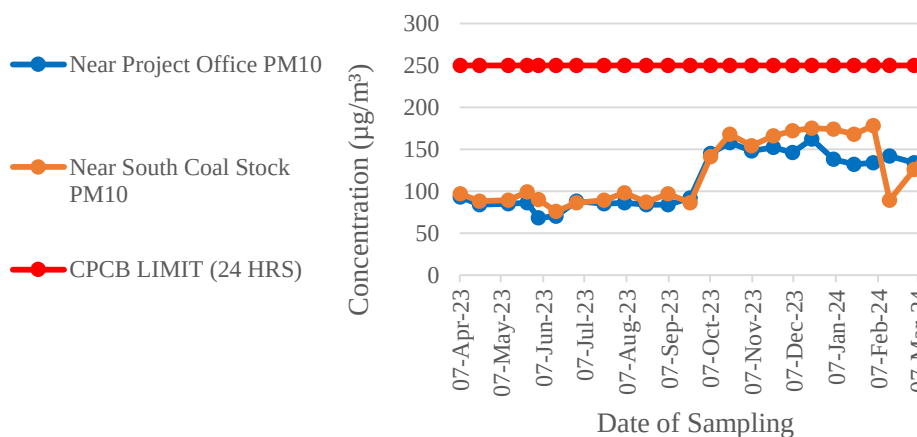
Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** Near South Coal StockAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	201	97	46	14.31	18.17
21-Apr-23	182	88	38	13	18.71
12-May-23	182	89	38	10.52	17.21
26-May-23	206	99	49	12.13	12.72
03-Jun-23	187	90	40	13	14.9
16-Jun-23	157	76	29	18.31	18.65
01-Jul-23	172	86	35	21.28	17.04
21-Jul-23	181	89	38	17.28	17.01
05-Aug-23	205	98	47	21.28	15.62
21-Aug-23	180	87	38	10.52	13.87
06-Sep-23	210	97	48	14.65	17.01
22-Sep-23	172	86	35	22.3	18.31
07-Oct-23	228	141	52	22.04	13.05
21-Oct-23	266	168	63	12.36	13.4
06-Nov-23	252	154	56	11.2	12.82
22-Nov-23	266	166	63	14.75	17.71
06-Dec-23	254	172	66	10.53	19.69
20-Dec-23	275	175	72	16.32	18.32
05-Jan-24	256	174	69	17.58	14.58
20-Jan-24	264	168	68	14.31	14.1
03-Feb-24	275	178	72	14.26	13.1
15-Feb-24	266	89	63	14.42	17.35
04-Mar-24	236	126	47	13.52	17.58
16-Mar-24	258	158	62	14.52	17.04
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	275	178	72	22.3	19.69
Minimum	157	76	29	10.52	12.72
Average	219.9	121.2	51.1	15.3	16.1
Standard 24 hr	500	250		120	120

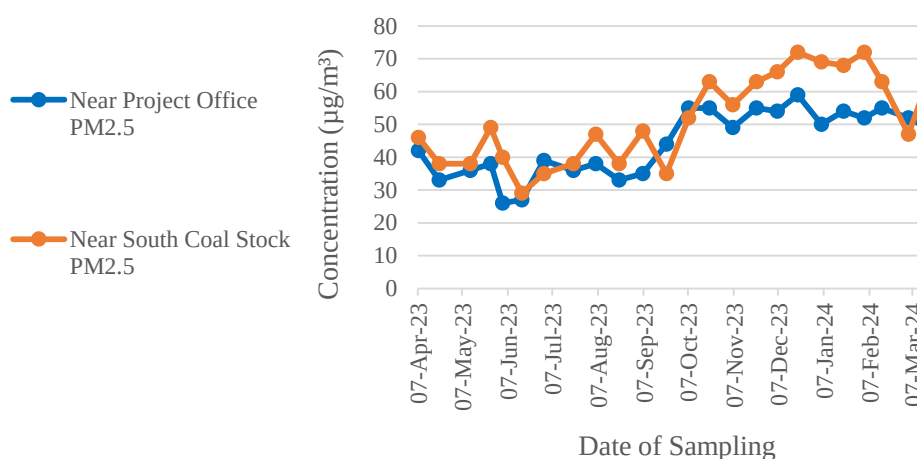
Graph Showing SPM for Lajkura OCP



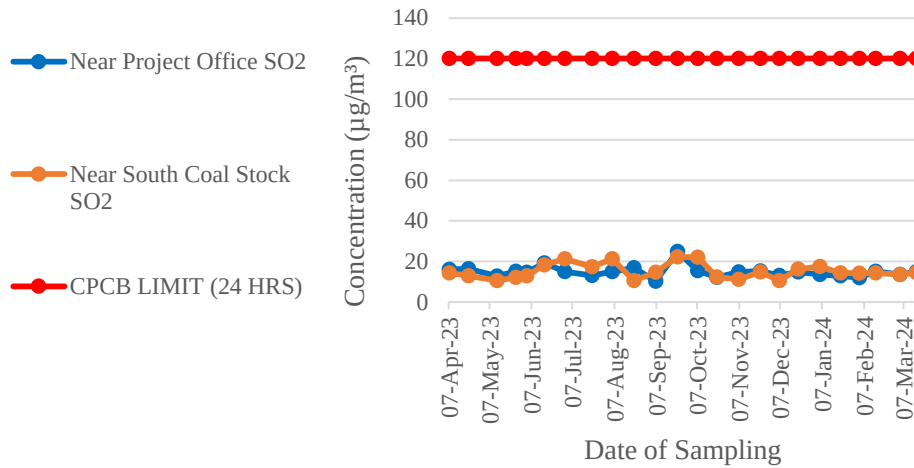
Graph Showing PM10 for Lajkura OCP



Graph Showing PM2.5 for Lajkura OCP



Graph Showing SOX for Lajkura OCP



Graph Showing NOX for Lajkura OCP

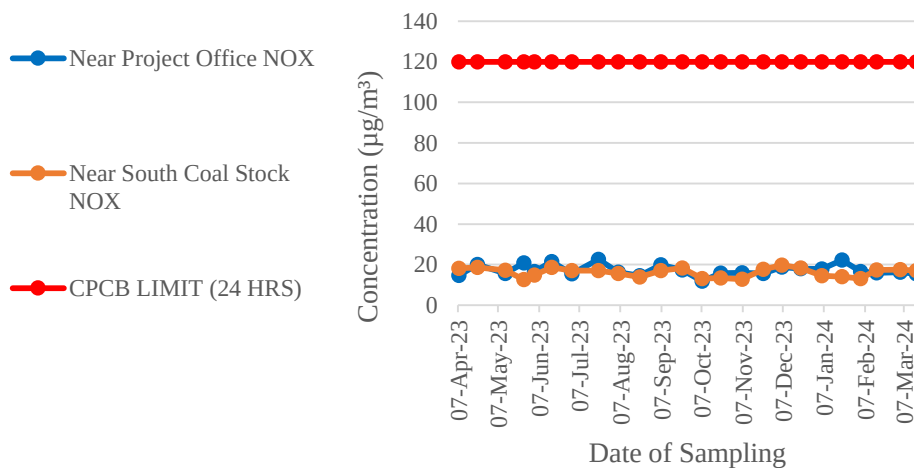


Table:9

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** KhokelmalAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NO _x
03-Apr-23	136	62	21	15	15
04-Apr-23	138	63	23	16	12
10-Apr-23	146	68	25	14	18
11-Apr-23	154	74	27	16	20
17-Apr-23	162	80	30	14	14
18-Apr-23	164	83	31	17	20
24-Apr-23	158	75	29	19	21
25-Apr-23	156	73	28	13	20
02-May-23	146	64	25	16.52	18.45
03-May-23	136	58	21	12.65	12.56
06-May-23	150	68	26	14.32	19.57
08-May-23	142	61	23	14.56	16.58
16-May-23	156	73	28	15.22	16.66
17-May-23	154	71	27	11.6	11.38
22-May-23	163	81	31	16.56	17.51
23-May-23	153	73	27	13.39	19.47
29-May-23	158	76	29	17.4	20.5
30-May-23	149	68	26	13.94	12.05
05-Jun-23	143	62	24	13.38	14.53
06-Jun-23	162	81	31	16.57	12.85
14-Jun-23	154	71	27	22.33	15.7
15-Jun-23	146	65	25	18.77	12.27
21-Jun-23	164	80	32	17.66	16.75
22-Jun-23	160	78	30	12.13	16.73
27-Jun-23	168	83	34	15.42	21.39
28-Jun-23	157	76	29	14.63	19.67
03-Jul-23	146	66	25	23.55	18.72
04-Jul-23	137	59	22	10.33	15.51
10-Jul-23	149	69	26	23.61	20.52
11-Jul-23	155	74	28	14.71	21.2
17-Jul-23	158	76	29	13.32	10.47
18-Jul-23	150	68	26	16.2	16.11
24-Jul-23	164	83	32	11.84	19.9
25-Jul-23	162	79	30	14.97	16.11
01-Aug-23	159	76	29	11.08	17.68
02-Aug-23	162	78	31	24.53	15.51
07-Aug-23	152	73	27	15.53	16.79
08-Aug-23	164	81	32	11.18	13.25
16-Aug-23	164	83	32	13.52	16.36
17-Aug-23	158	77	29	11.88	16.87
23-Aug-23	162	83	31	17.58	10.52
24-Aug-23	157	75	29	14.58	16.65

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29-Aug-23	152	73	27	13.99	12.1
30-Aug-23	161	83	32	11.52	16.85
01-Sep-23	136	58	21	14.68	15.27
02-Sep-23	146	66	25	13.94	18.39
08-Sep-23	143	62	23	18.79	19.71
09-Sep-23	162	82	31	13.5	12.28
18-Sep-23	146	66	25	17.07	15.98
19-Sep-23	137	59	22	14.48	14.56
25-Sep-23	149	69	26	18	21.86
26-Sep-23	155	74	28	10.26	23.69
03-Oct-23	159	76	28	11.99	19.44
04-Oct-23	148	68	25	11.42	17.75
09-Oct-23	156	75	27	22.69	21.59
10-Oct-23	146	67	24	16.22	24.02
16-Oct-23	166	83	32	16.16	17.3
17-Oct-23	172	88	35	12.63	16.38
25-Oct-23	152	70	26	14.01	15.76
26-Oct-23	162	82	30	10.74	11.76
01-Nov-23	182	85	33	13.44	12.75
02-Nov-23	212	95	46	15.61	13.63
09-Nov-23	188	86	37	11.08	13.51
10-Nov-23	176	82	30	13.12	17.01
16-Nov-23	172	80	30	13.69	13.38
17-Nov-23	166	76	28	16.94	13.53
24-Nov-23	174	83	32	16.05	16.28
25-Nov-23	178	86	35	19.65	18.62
29-Nov-23	165	75	28	14.21	18.72
30-Nov-23	170	81	30	12.64	14.77
04-Dec-23	171	81	32	16.03	20.06
05-Dec-23	168	83	30	18.1	14.07
11-Dec-23	177	85	34	13.75	12.42
12-Dec-23	180	87	35	11.32	14.31
18-Dec-23	198	91	42	14.36	19.35
19-Dec-23	192	87	39	15.36	15.65
26-Dec-23	188	86	38	15.38	13.27
27-Dec-23	196	91	40	16.21	17.32
01-Jan-24	194	88	39	14.98	16.52
02-Jan-24	156	74	27	13.85	15.98
08-Jan-24	164	83	31	12.58	14.65
09-Jan-24	175	85	36	12.98	14.58
16-Jan-24	164	84	32	13.87	10.91
17-Jan-24	158	79	29	13.84	13.77
22-Jan-24	172	84	35	10.85	18.25
23-Jan-24	165	83	32	13.16	14.16
30-Jan-24	158	82	30	14.33	15.75
31-Jan-24	178	85	37	11.52	10.16
01-Feb-24	162	78	30	14.98	19.75
02-Feb-24	155	72	27	15.43	17.36
07-Feb-24	164	83	32	12.73	12.15
08-Feb-24	178	89	37	13.72	10.3
16-Feb-24	176	88	35	14.33	11.85
17-Feb-24	165	84	31	15.14	15.95
26-Feb-24	184	87	36	17.86	18.84
27-Feb-24	166	84	32	18.53	16.28

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07-Mar-24	174	83	32	10.56	12.23
08-Mar-24	163	76	28	12.52	16.54
14-Mar-24	180	86	35	15.64	18.54
15-Mar-24	196	91	39	15.42	14.57
20-Mar-24	180	83	35	15.56	18.72
21-Mar-24	164	76	28	10.33	15.51
27-Mar-24	170	86	33	15.98	12.56
28-Mar-24	190	91	39	14.71	21.2
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	212	95	46	24.53	24.02
Minimum	136	58	21	10.26	10.16
Average	162.75	77.42	30.10	14.85	16.22
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 10

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** ChuakaniAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	146	69	25	15	21
04-Apr-23	137	62	22	16	13
10-Apr-23	156	76	28	12	14
11-Apr-23	136	60	20	15	16
17-Apr-23	146	67	25	16	20
18-Apr-23	157	76	29	14	17
24-Apr-23	161	80	30	18	11
25-Apr-23	184	91	39	14	11
02-May-23	160	78	30	11.52	16.58
03-May-23	164	81	32	14.74	17.58
08-May-23	168	83	34	12.56	14.71
09-May-23	144	62	24	13.98	16.54
16-May-23	155	74	28	17.34	10.62
17-May-23	142	61	23	12.3	13.08
22-May-23	168	83	34	13.75	18.25
23-May-23	144	62	24	17.77	10.42
29-May-23	155	72	28	12.03	14.17
30-May-23	168	82	34	18.43	14.76
05-Jun-23	163	82	31	20.02	11.22
06-Jun-23	160	79	30	19.78	18.3
14-Jun-23	142	63	24	17.04	16.71
15-Jun-23	166	84	33	19.42	21.56
21-Jun-23	163	79	31	10.26	14.86
22-Jun-23	152	71	27	13.41	21.18
27-Jun-23	155	73	28	20.37	18.68
28-Jun-23	165	82	33	12.25	23.34
03-Jul-23	162	81	30	11.39	21.61
04-Jul-23	164	83	32	21.8	13.78
10-Jul-23	157	77	29	16.29	18.59
11-Jul-23	149	68	26	13.52	17.53
17-Jul-23	168	86	34	18.1	19.9
18-Jul-23	146	65	25	11.29	13.04
24-Jul-23	161	82	30	14.05	16.11
25-Jul-23	166	85	33	19.23	16.11
01-Aug-23	155	74	28	14.99	18.91
02-Aug-23	140	61	23	12.62	19.82
07-Aug-23	168	83	34	16.29	17.61
08-Aug-23	143	62	24	12.9	13.84
16-Aug-23	142	65	24	12.74	15.88
17-Aug-23	145	68	26	18.54	16.58
23-Aug-23	158	76	29	13.52	14.52
24-Aug-23	163	83	31	18.54	15.36
29-Aug-23	182	91	39	13.58	16.89
30-Aug-23	160	81	30	12.26	15.58

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01-Sep-23	154	72	27	13.8	16.14
02-Sep-23	168	83	34	13.6	17.69
08-Sep-23	148	68	26	16.19	23.04
09-Sep-23	144	63	24	12.5	16.17
18-Sep-23	161	81	30	20.91	18.85
19-Sep-23	164	83	32	19.36	15.47
25-Sep-23	158	77	29	13.17	13.27
26-Sep-23	150	68	26	10.8	21.01
03-Oct-23	156	76	27	13.87	18.75
04-Oct-23	166	86	32	10.24	19.9
09-Oct-23	162	81	29	19.16	23.47
10-Oct-23	172	74	34	16.62	22.72
16-Oct-23	160	79	29	14.33	19.27
17-Oct-23	165	84	31	15.7	21.99
25-Oct-23	163	82	30	15.25	17.15
26-Oct-23	175	88	36	14.58	16.8
01-Nov-23	185	85	36	16.2	19.1
02-Nov-23	192	88	38	11.96	10.33
09-Nov-23	182	86	34	12.97	12.11
10-Nov-23	193	86	38	13.67	11.69
16-Nov-23	168	78	29	13.91	12.27
17-Nov-23	172	82	31	17.04	17.71
24-Nov-23	171	83	30	15.71	15.79
25-Nov-23	180	88	36	16.1	15.56
29-Nov-23	192	91	39	15.84	13.56
30-Nov-23	198	94	42	14.21	16.6
04-Dec-23	186	89	38	13.54	11.87
05-Dec-23	171	78	30	16.97	10.94
11-Dec-23	176	84	33	11.83	14.02
12-Dec-23	168	80	31	10.44	19.22
18-Dec-23	187	87	36	13.54	14.55
19-Dec-23	174	80	32	16.97	15.64
26-Dec-23	168	79	30	12.38	13.21
27-Dec-23	188	90	38	14.36	16.65
01-Jan-24	178	90	37	15.28	16.85
02-Jan-24	165	85	34	14.87	15.85
08-Jan-24	163	84	32	10.52	12.54
09-Jan-24	160	80	31	16.58	18.57
16-Jan-24	175	92	36	11.95	13.7
17-Jan-24	170	88	34	18.49	15.49
22-Jan-24	175	90	35	10.75	15.03
23-Jan-24	154	74	27	13.65	14.22
30-Jan-24	182	91	38	13.31	12.37
31-Jan-24	164	85	32	13.19	14.36
01-Feb-24	174	84	35	14.33	14.42
02-Feb-24	164	81	30	12.41	10.99
07-Feb-24	175	86	35	18.16	16.45
08-Feb-24	165	84	32	15.73	15.52
16-Feb-24	174	88	35	12.8	14.88
17-Feb-24	160	76	28	11.44	13.74
26-Feb-24	168	82	30	16	12.39
27-Feb-24	165	84	33	15.73	15.52
07-Mar-24	206	96	44	18.56	15.65
08-Mar-24	204	95	42	13.52	15.56

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INSTITUTE LTD., RI VII, BHUBANESWAR**

14-Mar-24	175	83	32	12.52	18.54
15-Mar-24	182	88	36	13.56	15.56
20-Mar-24	204	95	42	11.39	21.61
21-Mar-24	186	90	38	11.2	13.78
27-Mar-24	171	85	33	16.29	18.59
28-Mar-24	192	92	40	13.52	17.53
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	206	96	44	21.8	23.47
Minimum	136	60	20	10.24	10.33
Average	165.90	80.04	31.45	14.73	16.15
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

Table:11



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Table: 7.11

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** VIP Guest House IB ValleyAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	150	71	26	11	13
04-Apr-23	139	62	22	13	19
10-Apr-23	135	60	20	14	19
11-Apr-23	140	64	23	15	12
17-Apr-23	164	83	32	19	22
18-Apr-23	157	77	29	13	19
24-Apr-23	135	58	20	16	18
25-Apr-23	150	69	26	16	13
02-May-23	155	73	28	15.98	18.54
03-May-23	150	65	26	14.52	16.87
08-May-23	135	56	20	12.5	17.58
09-May-23	141	60	23	11.54	14.98
16-May-23	162	78	30	17.74	18.22
17-May-23	165	82	32	14.24	13.13
22-May-23	141	61	23	17.69	12.51
23-May-23	144	63	24	15.76	16.67
05-Jun-23	152	70	27	13.03	20.67
06-Jun-23	145	65	25	15.25	21.26
14-Jun-23	136	58	21	16.39	18.04
15-Jun-23	165	81	32	12.34	24.45
21-Jun-23	139	61	23	12.73	15.8
22-Jun-23	136	58	21	13.09	18.94
27-Jun-23	155	72	28	14.71	12.04
28-Jun-23	158	75	29	16.29	20.63
03-Jul-23	162	79	30	14.91	12.35
04-Jul-23	150	69	26	12.32	16.27
10-Jul-23	138	60	22	23.18	15.47
11-Jul-23	156	73	28	18.91	10.46
17-Jul-23	155	73	28	13.61	20.94
18-Jul-23	150	69	26	13.39	16.96
24-Jul-23	137	58	21	14.79	20.71
25-Jul-23	154	71	27	17	17.8
29-Jul-23	146	66	25	10.54	18.17
31-Jul-23	140	61	23	11.51	12.37
01-Aug-23	161	78	30	14.91	17.76
02-Aug-23	163	82	32	12.32	13.31
07-Aug-23	139	61	23	23.18	17.79
08-Aug-23	145	68	26	18.91	13.45
16-Aug-23	163	83	32	14.48	12.52
17-Aug-23	157	77	29	11.56	16.85
23-Aug-23	137	58	21	13.55	14.58
24-Aug-23	145	69	26	17.58	15.23
01-Sep-23	150	68	26	12.1	14.63
02-Sep-23	162	81	30	18.13	21.78

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INSTITUTE LTD., RI VII, BHUBANESWAR**

08-Sep-23	153	71	27	24.85	18.82
09-Sep-23	157	77	29	12.9	12.21
18-Sep-23	161	79	30	15.15	22.39
19-Sep-23	150	69	26	12.72	20.6
25-Sep-23	138	60	22	10.34	17.82
26-Sep-23	155	73	28	10.95	12.78
03-Oct-23	164	82	30	15.67	16.8
04-Oct-23	155	76	27	14.79	20.39
09-Oct-23	164	78	29	12.75	18.88
10-Oct-23	168	84	32	15.3	14.35
16-Oct-23	164	84	31	11.29	18.14
17-Oct-23	158	78	29	13.21	16.3
25-Oct-23	146	66	24	14.71	14.01
26-Oct-23	154	74	27	11.13	14.63
30-Oct-23	142	64	23	16.77	16.77
31-Oct-23	156	75	28	14.07	18.19
01-Nov-23	195	88	40	11.82	12.06
02-Nov-23	185	84	36	15.22	16.44
09-Nov-23	184	82	32	13.83	14.95
10-Nov-23	196	92	41	10.49	16.01
16-Nov-23	172	82	31	15.91	15.08
17-Nov-23	166	78	29	13.01	15.4
24-Nov-23	176	85	34	17.89	16.57
25-Nov-23	162	74	27	16.79	11.11
04-Dec-23	176	82	33	12.73	10.03
05-Dec-23	166	79	29	14.41	10.32
11-Dec-23	178	86	34	15.9	11.96
12-Dec-23	183	88	36	11.59	18.18
18-Dec-23	185	88	36	12.73	14.32
19-Dec-23	176	82	33	14.41	12.82
26-Dec-23	164	76	28	13.24	14.65
27-Dec-23	202	94	43	12.38	17.32
01-Jan-24	176	84	36	13.52	16.58
02-Jan-24	190	90	38	15.58	17.88
08-Jan-24	174	82	32	13.56	19.58
09-Jan-24	160	80	30	11.23	14.52
16-Jan-24	150	69	25	14.75	22.69
17-Jan-24	162	78	29	14.49	18.35
22-Jan-24	166	62	32	10.64	14.9
23-Jan-24	175	88	36	18.91	19.8
30-Jan-24	155	76	28	13.98	16.73
31-Jan-24	161	81	30	10.48	11.26
01-Feb-24	158	75	28	19.31	12.15
02-Feb-24	165	84	32	11.49	14.05
07-Feb-24	186	90	38	13.78	17.42
08-Feb-24	168	85	34	15.01	15.61
16-Feb-24	182	84	36	19.66	11.98
17-Feb-24	202	96	44	14.32	14.87
26-Feb-24	194	88	40	16.01	16.36
27-Feb-24	170	82	34	14.5	12.19
07-Mar-24	185	90	37	12.52	13.56
08-Mar-24	182	82	35	11.52	18.56
14-Mar-24	170	79	31	13.56	15.64
15-Mar-24	194	90	39	11.85	13.56

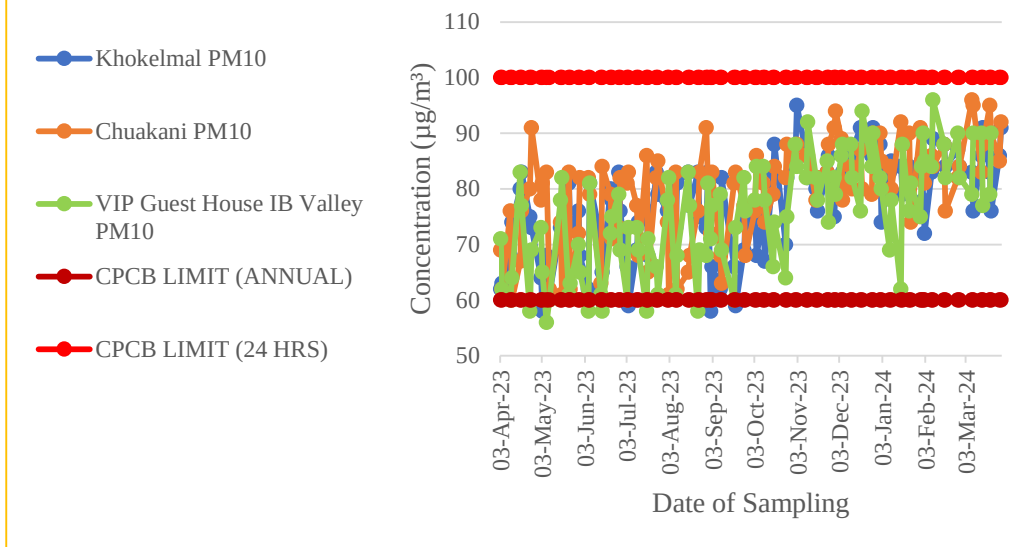
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN
INSTITUTE LTD., RI VII, BHUBANESWAR**

20-Mar-24	195	90	40	14.91	12.35
21-Mar-24	189	77	31	12.32	16.27
27-Mar-24	176	79	33	13.56	15.47
28-Mar-24	192	90	39	12.22	10.46
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	202	96	44	24.85	24.45
Minimum	135	56	20	10.34	10.03
Average	161.6	75.6	29.5	14.4	16.1
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

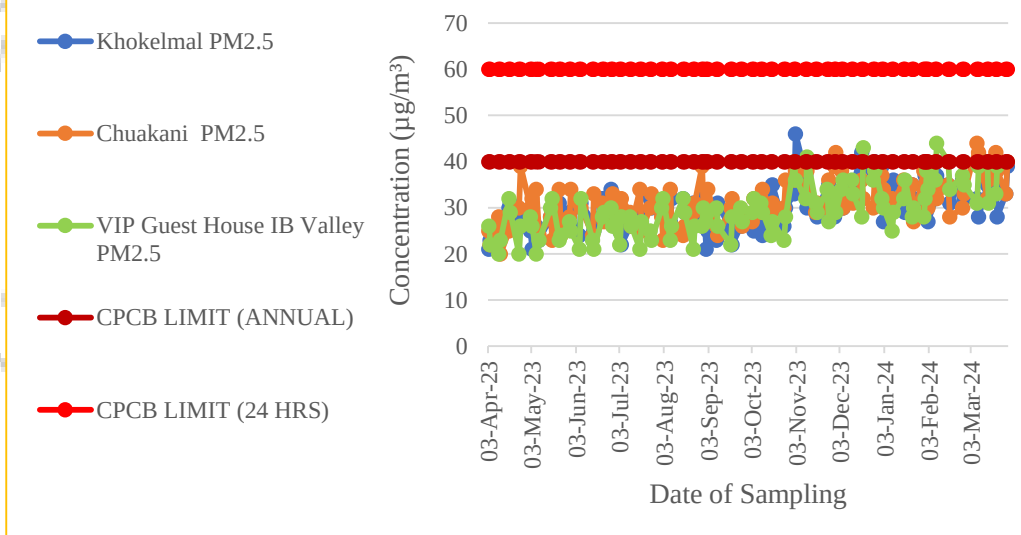


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Graph Showing PM10 for Lajkura OCP



Graph Showing PM2.5 for Lajkura OCP



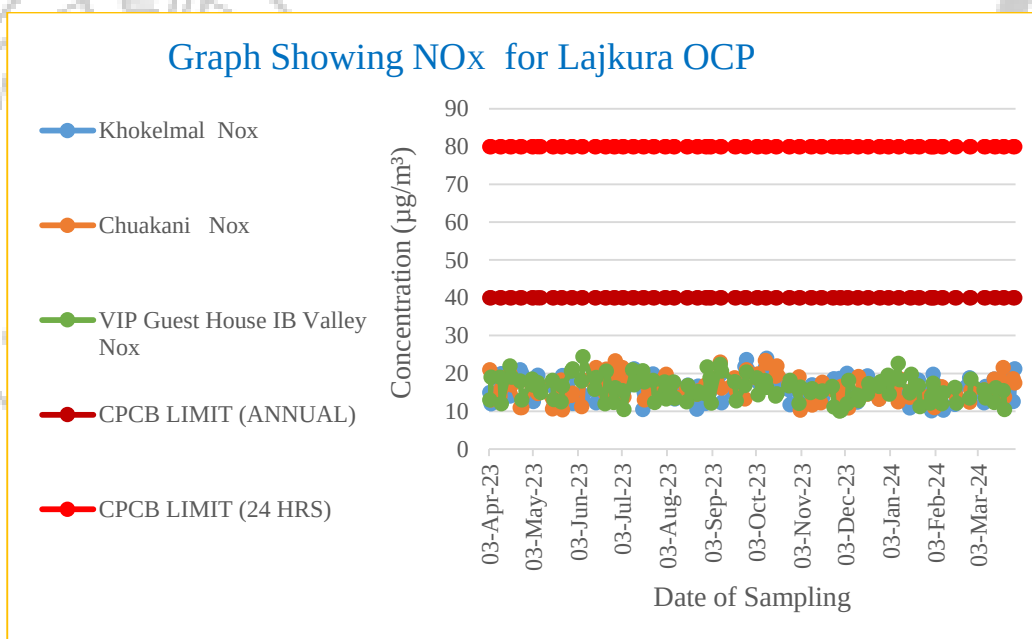
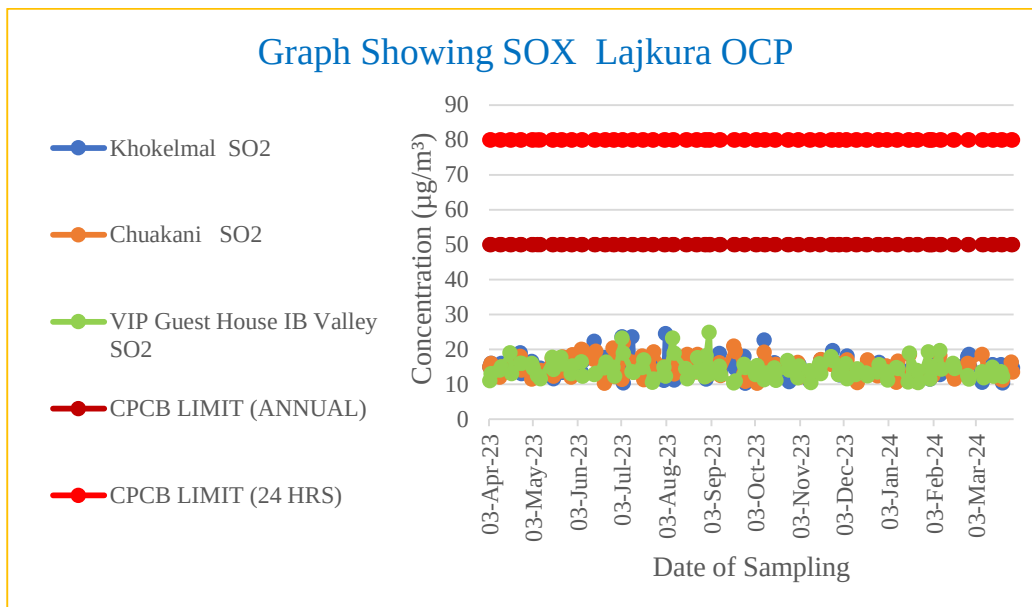


Table:12

Table:13

Table: 12

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring Station:** Near Lilari Nallah Pump HouseAll values are in $\mu\text{g}/\text{m}^3$

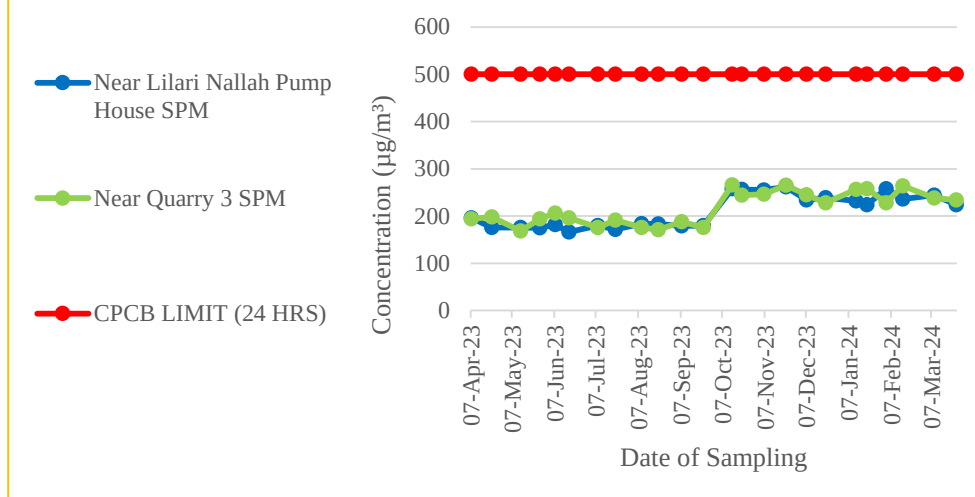
Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
07-Apr-23	196	95	44	15.11	11.52
22-Apr-23	176	86	35	14.36	14.73
13-May-23	176	85	36	11.84	12.55
27-May-23	175	83	36	14.82	21.54
07-Jun-23	182	90	39	12.26	18.68
17-Jun-23	166	81	33	13.69	12.96
08-Jul-23	180	87	38	12.01	12.02
21-Jul-23	172	86	35	11.1	17.12
09-Aug-23	184	88	39	21.73	10.31
21-Aug-23	183	92	39	11.35	14.58
07-Sep-23	179	87	38	14.3	14.37
23-Sep-23	180	87	38	11.37	10.4
14-Oct-23	258	157	63	14.23	16.01
21-Oct-23	256	154	58	14.55	18.7
06-Nov-23	255	155	54	11.45	12.69
22-Nov-23	262	158	60	15.89	22.61
07-Dec-23	234	155	56	14.31	14.06
21-Dec-23	239	154	58	17.36	17.32
12-Jan-24	232	148	54	10.52	17.58
20-Jan-24	224	134	52	14.93	15.86
03-Feb-24	258	162	65	13.99	18.41
15-Feb-24	236	135	51	15.91	12.85
09-Mar-24	244	144	56	14.52	15.24
25-Mar-24	224	116	48	12.01	12.02
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	262	162	65	21.73	22.61
Minimum	166	81	33	10.52	10.31
Average	209.2	116.3	46.4	14.0	15.3
Standard 24 hr	500	250		120	120

Table: 13

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring Station:** Near Quarry 3All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
07-Apr-23	194	98	42	15.4	15.44
22-Apr-23	198	96	45	11.26	12.89
13-May-23	168	83	34	16.56	18.56
27-May-23	194	91	43	10.47	10.08
07-Jun-23	206	97	48	14.85	19.28
17-Jun-23	196	93	44	19.24	15.92
08-Jul-23	176	86	37	19.67	16.41
28-Jul-23	191	64	42	13.48	12.53
09-Aug-23	176	83	36	11.47	16.82
21-Aug-23	171	86	35	13.54	16.54
07-Sep-23	188	91	42	14.7	20.12
23-Sep-23	176	86	37	11.57	15.09
14-Oct-23	266	166	68	12.87	21.64
21-Oct-23	244	145	52	12.67	13.4
06-Nov-23	246	142	48	14.91	14.64
22-Nov-23	265	166	63	13.76	11.77
07-Dec-23	245	165	62	11.88	10.33
21-Dec-23	228	142	53	15.95	16.98
12-Jan-24	256	168	65	12.58	15.87
27-Jan-24	258	165	64	19.18	16.82
10-Feb-24	228	142	54	11.19	14.47
22-Feb-24	264	166	62	16.38	12.23
09-Mar-24	238	136	52	18.56	15.42
25-Mar-24	234	132	50	14.7	20.12
Basic Stats	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	266	168	68	19.67	21.64
Minimum	168	64	34	10.47	10.08
Average	215.2	119.1	48.9	14.3	15.4
Standard 24 hr	500	250		120	120

Graph Showing SPM for Lakhanpur OCP



Graph Showing PM10 for Lakhanpur OCP

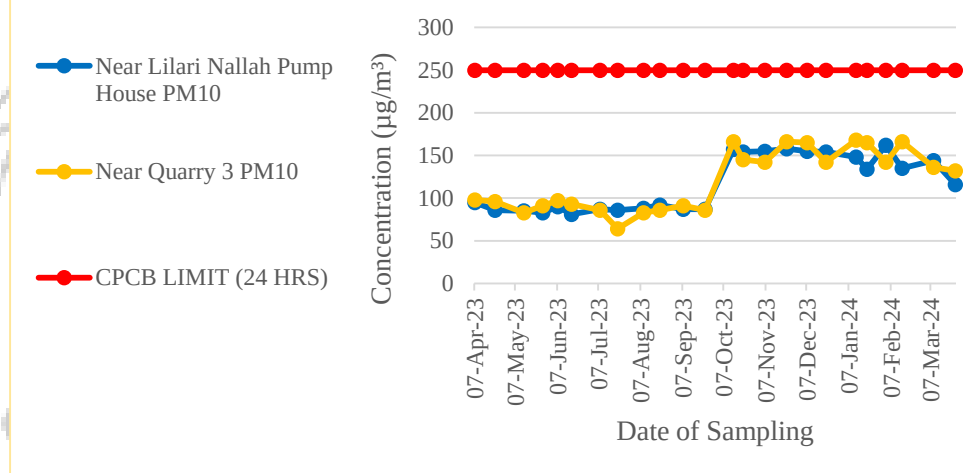
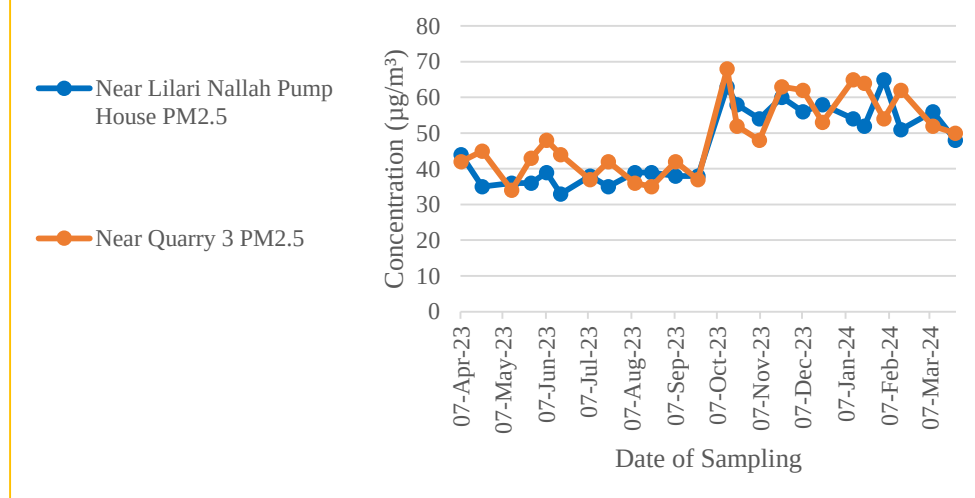
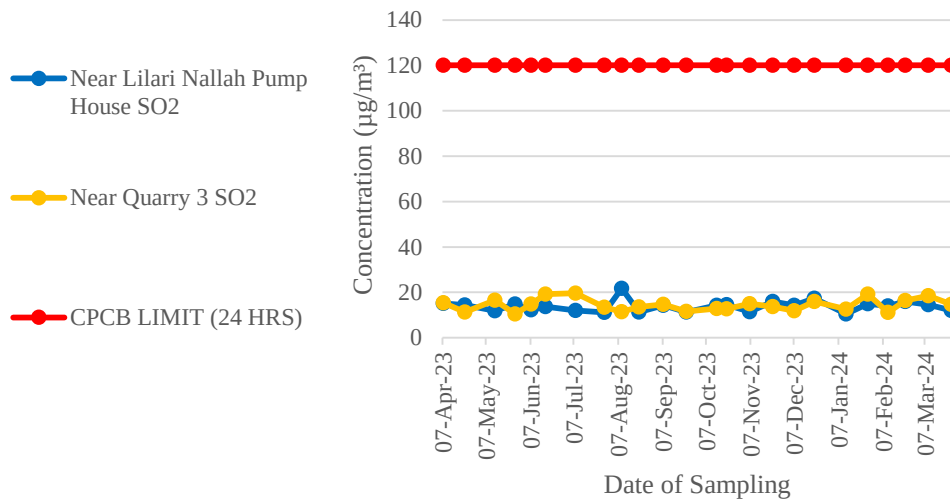


Table:14

Graph Showing PM2.5 for Lakhanpur OCP



Graph Showing SOX for Lakhanpur OCP



Graph Showing NOX for Lakhanpur OCP

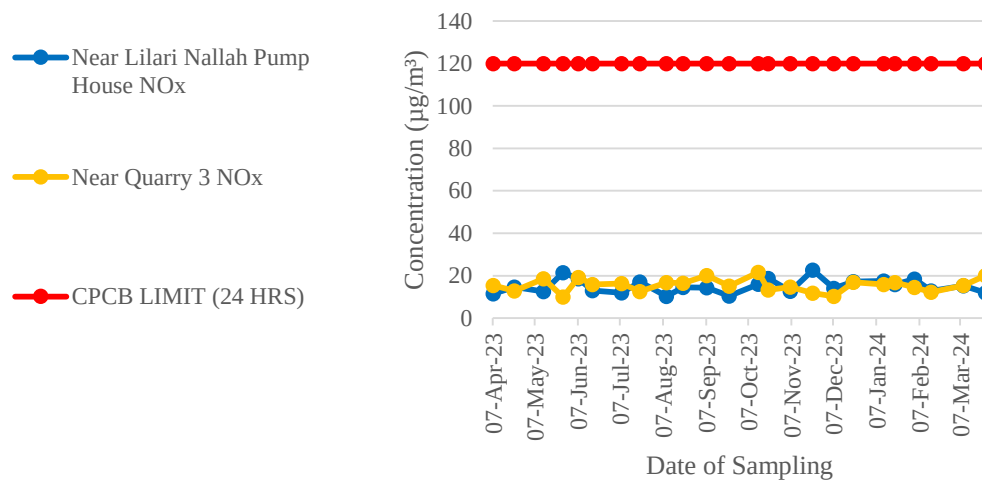


Table: 14

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring Station:** South of Quarry 6All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	158	78	29	11	17
04-Apr-23	144	66	24	14	15
10-Apr-23	154	73	27	14	13
11-Apr-23	135	60	20	15	16
17-Apr-23	146	68	25	17	22
18-Apr-23	155	74	28	16	20
24-Apr-23	138	62	22	13	19
25-Apr-23	143	65	24	16	25
02-May-23	154	70	27	15.89	20.56
03-May-23	141	62	23	16.87	12.98
08-May-23	146	66	25	10.56	16.58
09-May-23	158	60	29	12.56	18.57
16-May-23	155	74	28	10.99	14.25
17-May-23	169	81	34	16.87	13.2
22-May-23	152	70	27	18.38	17.32
23-May-23	161	79	30	11.58	15.41
05-Jun-23	137	59	21	17.62	16.23
06-Jun-23	139	61	23	17.46	13.95
14-Jun-23	146	65	25	16.99	19.67
15-Jun-23	135	59	21	11.84	17.14
21-Jun-23	153	71	27	17.62	21.11
22-Jun-23	138	60	22	19.32	17.71
27-Jun-23	146	66	25	14.5	18.99
28-Jun-23	149	68	26	12.39	18.99
03-Jul-23	158	78	29	10.42	23.48
04-Jul-23	148	69	26	23.03	18.2
10-Jul-23	145	66	25	13.78	15.77
11-Jul-23	143	63	24	10.39	17.43
17-Jul-23	145	67	25	15.09	16.43
18-Jul-23	157	77	29	14.5	10.47
24-Jul-23	143	62	24	12.77	13.57
25-Jul-23	166	84	33	19.4	17.01
29-Jul-23	162	81	30	11.14	18.95
31-Jul-23	149	68	26	10.9	13.43
01-Aug-23	146	65	25	11.07	24.46
02-Aug-23	155	74	28	12.73	20.03
07-Aug-23	168	83	34	18.37	19.71
08-Aug-23	153	70	27	21.38	20.18
16-Aug-23	203	96	45	10.52	17.58
17-Aug-23	145	68	25	16.58	16.58
23-Aug-23	155	74	28	14.75	20.25
24-Aug-23	137	62	22	13.89	17.84
01-Sep-23	156	74	28	20.18	18.98
02-Sep-23	143	62	23	19.74	15.06

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08-Sep-23	146	65	25	19.07	14.09
09-Sep-23	157	77	29	16.69	12.76
18-Sep-23	157	78	29	20	15.98
19-Sep-23	148	69	26	24.74	17.86
25-Sep-23	145	66	25	24.8	24.14
26-Sep-23	143	63	24	24.78	14.5
03-Oct-23	158	76	28	13.58	20.11
04-Oct-23	165	84	32	19.26	23.76
09-Oct-23	172	88	35	15.13	18.82
10-Oct-23	162	83	30	13.29	22.48
16-Oct-23	163	82	30	12.38	17.73
17-Oct-23	168	86	33	15.79	16.64
25-Oct-23	156	76	28	14.52	13.42
26-Oct-23	147	66	25	12.49	14.7
30-Oct-23	154	73	27	11.46	12.69
31-Oct-23	164	83	31	13.98	18.01
01-Nov-23	172	78	30	15.38	15.95
02-Nov-23	180	82	34	12.55	14.28
09-Nov-23	187	85	36	18.29	12.64
10-Nov-23	194	89	38	14.67	15.06
16-Nov-23	164	76	28	14.22	13.58
17-Nov-23	175	84	33	18.03	20.23
24-Nov-23	178	88	35	19.06	19.34
25-Nov-23	172	82	31	13.73	16.96
04-Dec-23	196	94	42	18.93	17.82
05-Dec-23	188	85	36	12.35	11.98
11-Dec-23	192	90	40	13.59	18.28
12-Dec-23	174	84	33	12.72	16.79
18-Dec-23	192	92	39	14.36	17.25
19-Dec-23	172	84	32	12.35	13.24
26-Dec-23	184	90	37	13.59	14.35
27-Dec-23	164	95	28	12.72	16.79
01-Jan-24	168	67	34	11.98	13.58
02-Jan-24	194	34	42	14.52	11.58
08-Jan-24	179	89	37	16.87	14.25
09-Jan-24	196	96	43	13.58	16.22
16-Jan-24	155	70	27	11.07	18.84
17-Jan-24	164	83	32	12.05	12.01
22-Jan-24	162	80	30	17.68	18.67
23-Jan-24	155	75	28	14.64	15.06
30-Jan-24	176	88	36	12.03	13.1
31-Jan-24	168	84	33	17.29	15.99
01-Feb-24	192	92	40	15.57	19.37
02-Feb-24	154	74	27	13.11	15.31
07-Feb-24	184	90	38	18.3	17.38
08-Feb-24	160	78	29	13.56	18.17
16-Feb-24	178	81	34	10.86	16.36
17-Feb-24	174	79	32	13.49	16.47
26-Feb-24	184	83	37	14.13	14.2
27-Feb-24	180	86	34	15.53	19.07
07-Mar-24	181	84	35	11.52	15.12
08-Mar-24	176	81	33	13.52	18.54
14-Mar-24	178	82	35	13.52	19.58
15-Mar-24	168	79	30	15.04	16.25

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20-Mar-24	188	84	38	20.18	18.98
21-Mar-24	184	81	36	19.74	15.06
27-Mar-24	174	78	33	19.07	14.09
28-Mar-24	168	80	33	16.69	12.76
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	203	96	45	24.8	25
Minimum	135	34	20	10.39	10.47
Average	162.3	75.8	30.0	15.2	16.9
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 15

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring Station:** South West of Quarry 5All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	151	72	26	16	11
04-Apr-23	146	68	25	12	15
10-Apr-23	158	77	29	15	16
11-Apr-23	154	74	27	19	16
17-Apr-23	156	31	28	11	21
18-Apr-23	145	63	25	16	13
24-Apr-23	138	61	22	13	18
25-Apr-23	162	81	30	12	17
02-May-23	153	72	27	12.41	15.65
03-May-23	164	68	32	18.64	12.78
08-May-23	160	77	30	17.85	19.58
09-May-23	150	68	26	14.65	18.58
16-May-23	143	63	24	14.39	17.28
17-May-23	149	69	26	12.45	11.52
22-May-23	158	77	29	14.92	15.78
23-May-23	165	80	32	15.85	14.25
05-Jun-23	144	62	24	15.61	15.37
06-Jun-23	158	76	29	15.57	17.1
14-Jun-23	167	84	33	18.97	14.17
15-Jun-23	156	73	28	13.7	19.01
21-Jun-23	152	70	27	16.2	17.58
22-Jun-23	163	80	31	17.64	20.25
27-Jun-23	155	73	28	15.62	17.9
28-Jun-23	166	82	33	21.31	18.91
03-Jul-23	153	71	27	11.96	11.97
04-Jul-23	164	83	32	15.21	16.32
10-Jul-23	162	79	30	20.37	17.48
11-Jul-23	156	73	28	20.18	15.56
17-Jul-23	137	58	21	14.5	15.31
18-Jul-23	141	61	23	14.79	15.22
24-Jul-23	158	77	29	12.18	13.27
25-Jul-23	144	62	24	18.68	17.27
29-Jul-23	138	60	22	13.58	18.01
31-Jul-23	136	79	31	12.07	13.9
01-Aug-23	144	63	24	10.25	13.68
02-Aug-23	150	69	26	13.58	10.6
07-Aug-23	157	77	29	16.88	19.23
08-Aug-23	164	81	32	20.18	14.74
16-Aug-23	143	65	24	16	14.52
17-Aug-23	140	64	23	11.58	14.58
23-Aug-23	154	31	28	13.56	12.56
24-Aug-23	147	63	25	14.98	16.58
01-Sep-23	157	76	27	16.77	17.1
02-Sep-23	144	63	24	13.77	19.6

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08-Sep-23	148	69	26	17.51	23.31
09-Sep-23	162	80	30	12.12	21.33
18-Sep-23	152	71	27	23.35	15.25
19-Sep-23	164	83	32	12.63	21.91
25-Sep-23	160	79	30	14.09	21.77
26-Sep-23	157	73	28	22.77	19.23
03-Oct-23	160	81	29	14.02	15.77
04-Oct-23	168	86	33	20.48	23.69
09-Oct-23	155	75	27	11.44	23.51
10-Oct-23	152	72	26	18.94	20.39
16-Oct-23	152	71	26	11.83	19
17-Oct-23	174	84	35	16.09	17.83
25-Oct-23	158	78	29	11.31	14.87
26-Oct-23	180	89	37	15.01	16.98
30-Oct-23	170	86	34	12.66	18.14
31-Oct-23	186	90	38	11.25	16.43
01-Nov-23	198	93	41	16.27	12.41
02-Nov-23	170	76	28	11.71	14.88
09-Nov-23	185	85	36	13.19	12.96
10-Nov-23	178	82	32	15.02	12.09
16-Nov-23	169	79	30	14.71	18.93
17-Nov-23	180	86	35	22.98	18.52
24-Nov-23	166	78	29	11.03	16.75
25-Nov-23	184	88	37	15.23	10.08
04-Dec-23	172	85	33	14.44	10.86
05-Dec-23	182	88	36	13.92	18.51
11-Dec-23	180	87	35	12.45	12.01
12-Dec-23	168	83	31	13.44	18.07
18-Dec-23	166	77	29	13.92	18.51
19-Dec-23	192	92	39	14.44	13.28
26-Dec-23	184	85	36	12.45	12.01
27-Dec-23	176	83	33	13.44	14.65
01-Jan-24	166	82	33	11.28	14.69
02-Jan-24	182	83	38	12.25	15.58
08-Jan-24	172	86	35	10.96	13.85
09-Jan-24	174	96	55	14.52	16.58
16-Jan-24	175	88	35	12.75	16.91
17-Jan-24	194	95	40	16.58	14.21
22-Jan-24	156	77	28	12.03	13.89
23-Jan-24	145	89	36	14.14	16.9
30-Jan-24	196	96	42	15.54	12.77
31-Jan-24	168	85	33	13.2	16.77
01-Feb-24	163	82	30	11.67	13.92
02-Feb-24	172	86	34	12.67	10.62
07-Feb-24	190	92	39	11.59	14.94
08-Feb-24	164	84	32	13.04	17.56
16-Feb-24	172	84	32	14.81	12.24
17-Feb-24	185	91	37	15.32	42.62
26-Feb-24	152	72	25	15.85	15.15
27-Feb-24	164	83	30	12.27	19.13
07-Mar-24	188	90	37	11.52	15.12
08-Mar-24	204	95	40	13.54	16.56
11-Mar-24	196	92	39	11.52	15.35
15-Mar-24	164	68	26	15.64	19.58

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20-Mar-24	198	90	38	16.77	17.1
21-Mar-24	166	75	30	13.77	19.6
27-Mar-24	192	92	38	14.45	16.58
28-Mar-24	164	78	29	12.56	17.58
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	204	96	55	23.35	42.62
Minimum	136	31	21	10.25	10.08
Average	163.8	77.5	30.8	14.7	16.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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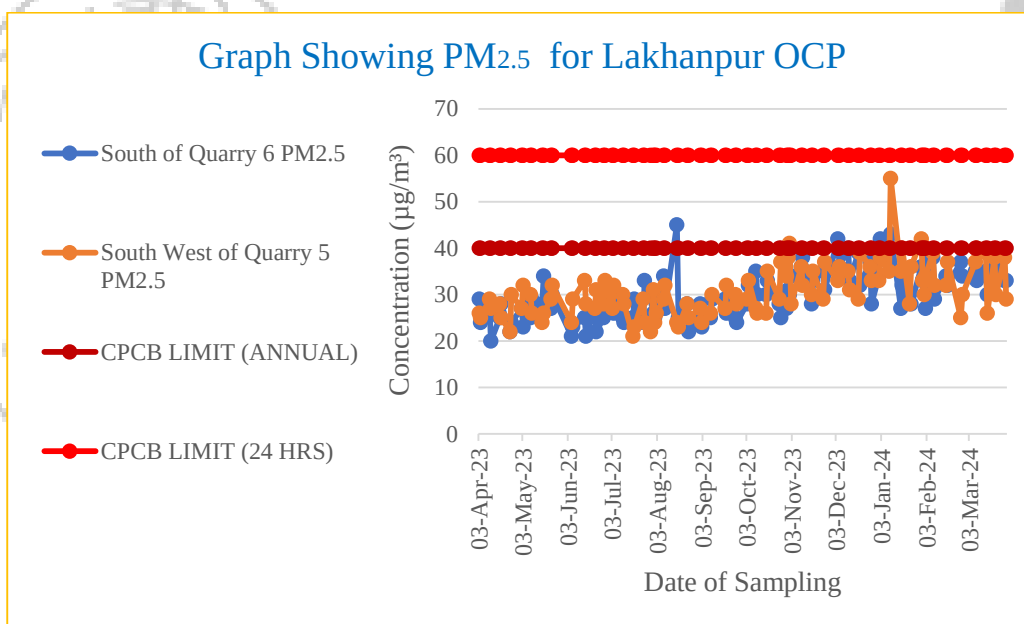
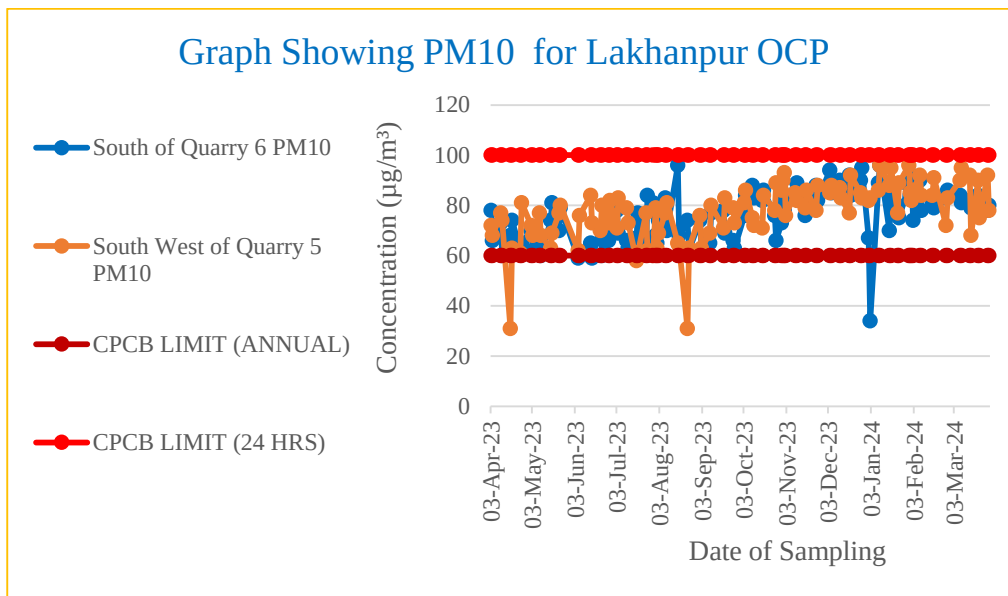


Table:16

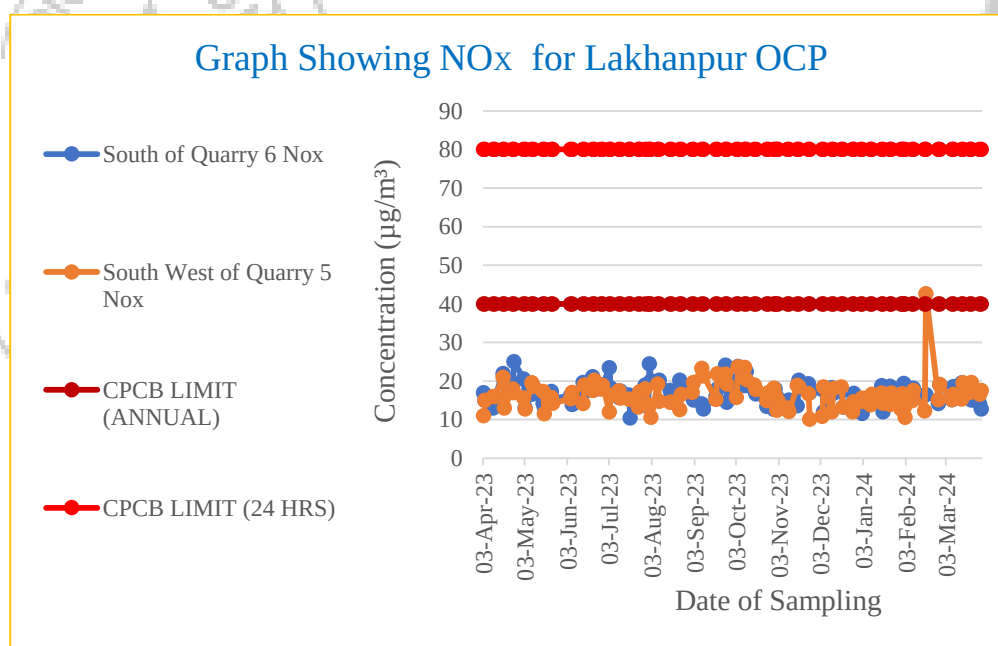
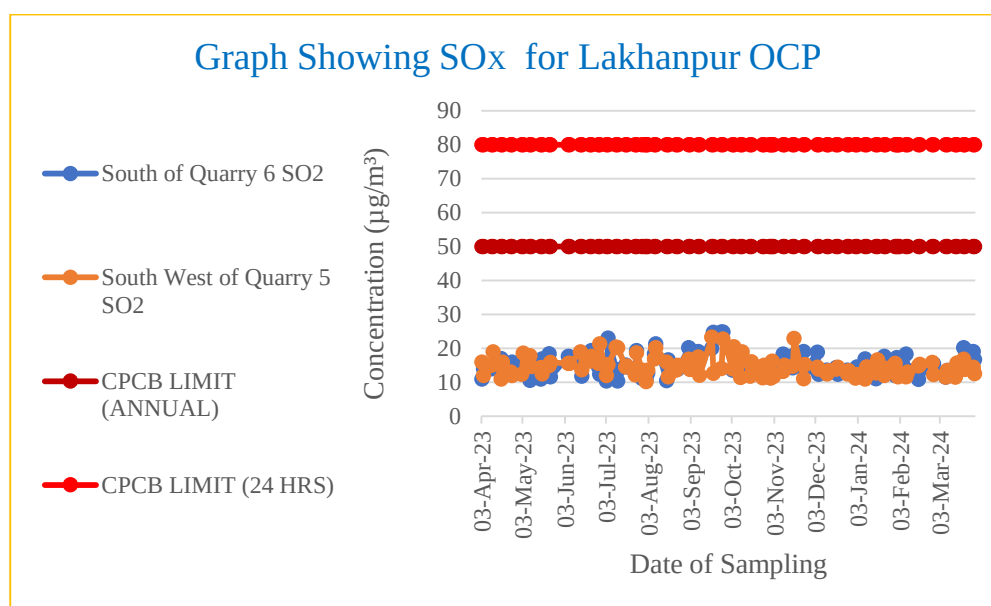


Table:17

Table: 16

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring Station:** Near Central WorkshopAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	196	94	44	16.2	19.77
22-Apr-23	177	87	36	17.44	14.73
13-May-23	182	87	38	10.59	15.45
27-May-23	190	91	42	14.87	19.27
07-Jun-23	178	97	38	18.86	20.48
17-Jun-23	186	89	40	17.66	19.98
08-Jul-23	178	88	37	13.28	17.56
28-Jul-23	165	85	33	10.85	12.53
09-Aug-23	136	58	21	14.88	18.35
22-Aug-23	185	91	40	10.52	14.58
07-Sep-23	167	83	34	13.45	20.62
23-Sep-23	183	92	39	12.26	16.56
14-Oct-23	186	152	60	16.63	22.92
30-Oct-23	270	161	58	14.72	18.96
06-Nov-23	254	154	56	19.69	18.72
22-Nov-23	260	155	58	13.84	14.96
07-Dec-23	245	166	62	11.86	9.7
21-Dec-23	253	168	65	18.36	20.12
12-Jan-24	260	168	65	15.32	17.98
27-Jan-24	252	162	62	12.56	13.56
10-Feb-24	256	158	62	12.4	15.15
22-Feb-24	258	159	62	17.47	18.41
09-Mar-24	216	123	49	14.52	15.24
25-Mar-24	242	186	49	13.45	20.62
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	270	168	65	19.69	22.92
Minimum	136	58	21	10.52	9.7
Average	209.9	120.2	47.8	14.7	17.3
Standard 24 hr	500	250		120	120

Table:17

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring Station:** Near Magazine HouseAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2 5	SO2	NOx
07-Apr-23	202	97	46	12.11	14.85
22-Apr-23	186	92	40	17.66	14.68
13-May-23	187	92	41	11.52	15.64
27-May-23	184	87	39	19.91	18.77
07-Jun-23	198	94	45	17.32	13.84
17-Jun-23	190	91	42	10.57	16.75
08-Jul-23	194	94	43	11.12	16.71
28-Jul-23	178	88	37	21.59	18.51
09-Aug-23	190	91	42	24.1	13.92
22-Aug-23	176	88	36	13.24	17.58
07-Sep-23	170	86	35	14.95	18.94
23-Sep-23	192	94	43	14.23	26.76
14-Oct-23	252	163	64	13.94	21.58
30-Oct-23	246	148	53	12.7	17.26
06-Nov-23	264	161	60	15.49	15.07
22-Nov-23	270	170	64	10.28	11.4
07-Dec-23	232	153	55	14.97	12.58
21-Dec-23	225	135	52	17.36	19.32
12-Jan-24	242	152	59	11.58	13.58
27-Jan-24	268	174	67	16.71	13.85
10-Feb-24	226	145	53	14.77	18.38
22-Feb-24	228	128	49	13.86	16.91
09-Mar-24	245	141	57	13.56	18.12
25-Mar-24	253	154	58	13.56	18.94
Basic Stats	SPM	PM10	PM2 5	SO2	NOx
Maximum	270	174	67	24.1	26.76
Minimum	170	86	35	10.28	11.4
Average	213.6	119.2	48.4	15.0	16.7
Standard 24 hr	500	250		120	120

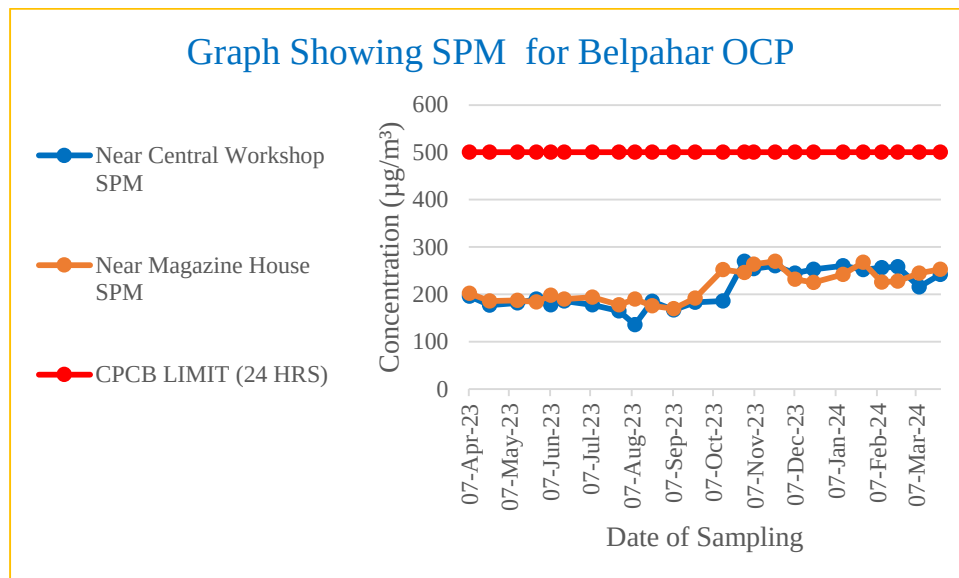
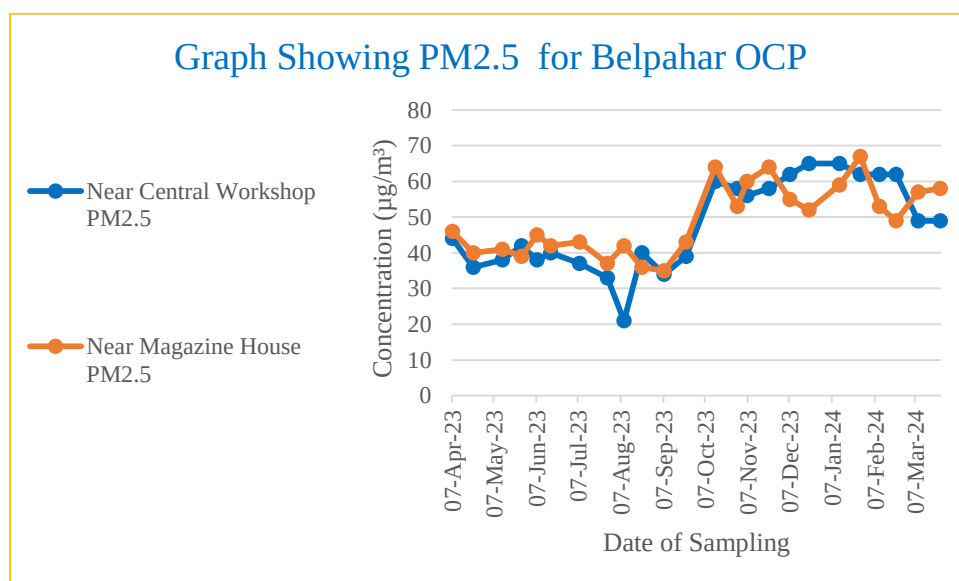
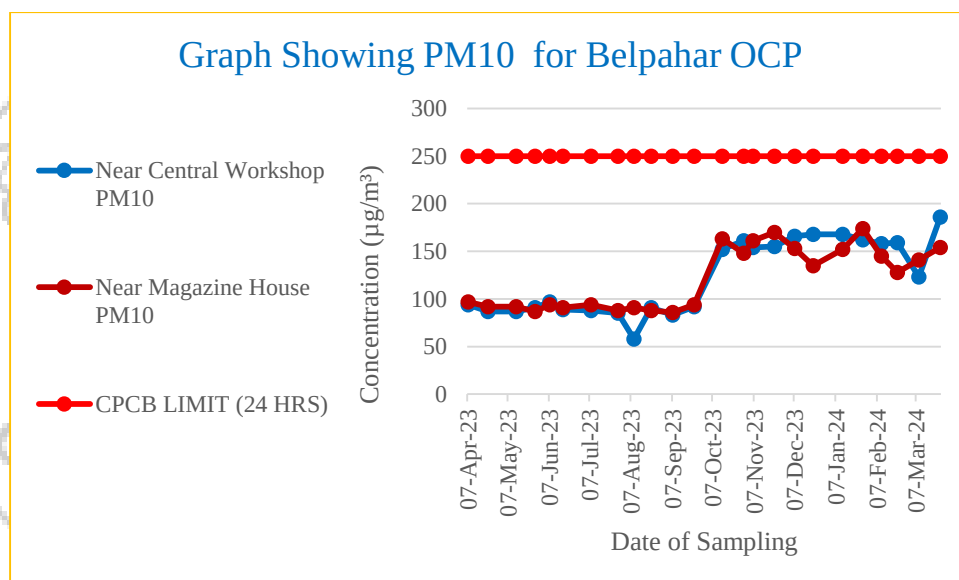
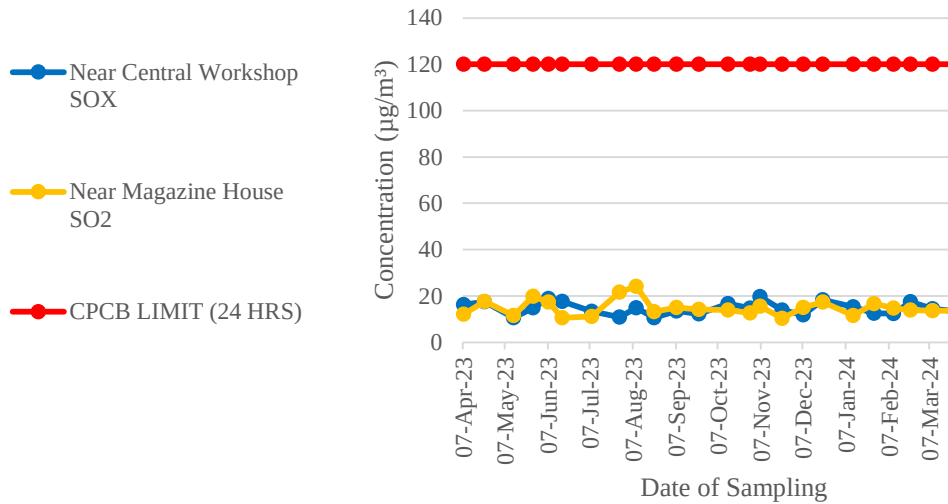


Table:19



Graph Showing SOX for Belpahar OCP



Graph Showing NOX for Belpahar OCP

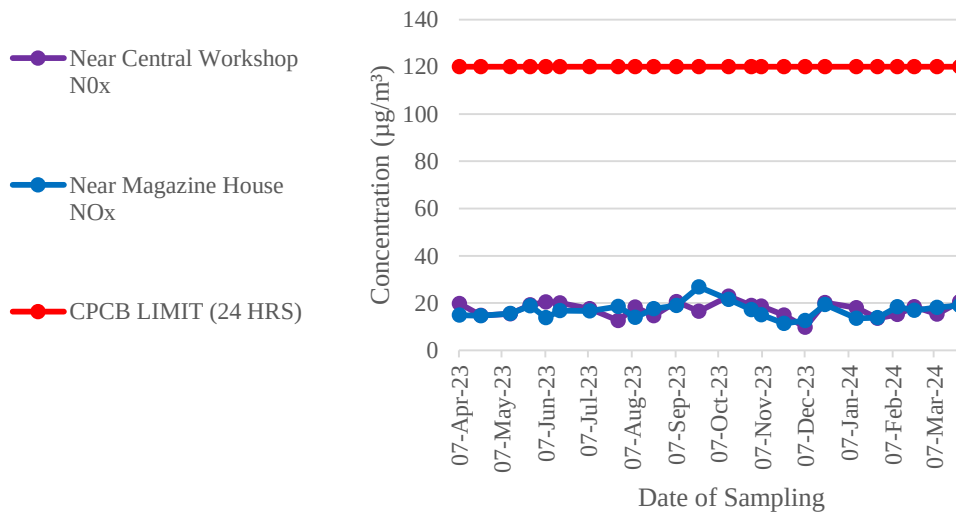


Table: 18

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring Station:** East of the MineAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	155	75	28	15	20
04-Apr-23	146	68	25	18	16
10-Apr-23	137	62	22	14	22
11-Apr-23	143	66	24	13	18
17-Apr-23	157	76	29	12	16
18-Apr-23	142	62	23	16	22
24-Apr-23	161	81	30	17	20
25-Apr-23	146	67	25	16	24
02-May-23	163	80	32	16.52	18.73
03-May-23	149	68	26	14.95	16.58
08-May-23	144	62	24	16.83	19.54
09-May-23	161	78	30	10.52	14.36
16-May-23	163	80	31	19.44	15.57
17-May-23	139	60	22	16.64	22.08
22-May-23	150	68	26	11.72	11.68
23-May-23	156	73	28	13.57	15.63
05-Jun-23	158	77	29	20.28	13.76
06-Jun-23	162	79	31	22.74	19.36
14-Jun-23	166	82	33	18.24	12.78
15-Jun-23	154	71	27	19.31	15.53
21-Jun-23	153	70	27	19.94	19.56
22-Jun-23	161	80	30	15.1	20.12
27-Jun-23	164	82	32	19.42	11.25
28-Jun-23	159	75	29	14.44	20.91
03-Jul-23	163	81	32	18.11	24.28
04-Jul-23	146	67	25	24.4	16.49
10-Jul-23	153	72	27	13.86	25.76
11-Jul-23	162	82	31	22.52	20.1
17-Jul-23	157	79	29	10.36	11.28
18-Jul-23	151	66	25	18.18	17.26
24-Jul-23	143	62	24	15.16	19.13
25-Jul-23	154	72	27	14.05	11.08
29-Jul-23	162	82	30	12.46	13.57
31-Jul-23	153	71	27	14.04	12.17
01-Aug-23	150	68	26	13.58	20.39
02-Aug-23	155	73	28	10.37	10.08
07-Aug-23	182	86	38	14.52	20.81
08-Aug-23	192	90	42	15.82	15.54
16-Aug-23	152	72	27	13.52	19.52
17-Aug-23	143	64	24	11.58	14.58
23-Aug-23	150	68	26	17.58	16.58
24-Aug-23	155	73	28	16.58	14.52
01-Sep-23	142	62	23	14.39	16.84
02-Sep-23	136	60	21	16.28	21.39

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08-Sep-23	160	79	30	15.85	15.35
09-Sep-23	166	82	33	15.93	21.87
18-Sep-23	164	81	32	10.05	17.48
19-Sep-23	145	67	25	12.68	14.48
25-Sep-23	153	72	27	13.09	11.61
26-Sep-23	163	82	31	14.14	16.88
03-Oct-23	170	88	34	18.37	16.99
04-Oct-23	164	82	30	12.92	23.15
09-Oct-23	168	86	33	16.96	21.09
10-Oct-23	162	83	31	13.23	24.05
16-Oct-23	148	68	25	10.1	14.01
17-Oct-23	164	81	30	13.5	14.85
25-Oct-23	194	88	39	16.79	18.98
26-Oct-23	172	83	35	10.85	15.05
30-Oct-23	164	81	32	14.72	16.49
31-Oct-23	152	72	26	14.28	20.29
01-Nov-23	190	86	38	13.43	17.27
02-Nov-23	186	84	35	13.1	12.74
09-Nov-23	172	78	29	11.48	17.43
10-Nov-23	184	85	36	13.44	15.58
16-Nov-23	168	78	29	17.38	14.17
17-Nov-23	162	73	27	15.71	15
24-Nov-23	177	86	34	16.06	16.29
25-Nov-23	185	88	37	16.2	12.9
04-Dec-23	186	91	38	15.78	10.47
05-Dec-23	174	84	32	15.97	14.67
11-Dec-23	177	86	34	16.21	13.27
12-Dec-23	168	81	30	14.75	19.97
18-Dec-23	162	75	28	14.31	12.45
19-Dec-23	184	88	36	15.69	11.36
26-Dec-23	194	92	40	15.38	12.34
27-Dec-23	186	89	37	16.37	15.36
01-Jan-24	154	73	27	11.21	18.57
02-Jan-24	192	92	39	12.75	14.58
08-Jan-24	162	83	31	14.96	18.53
09-Jan-24	155	74	27	13.12	15.54
16-Jan-24	192	93	39	11.76	19.01
17-Jan-24	178	87	35	11.76	13.61
22-Jan-24	152	73	26	17.22	12.19
23-Jan-24	164	82	30	13.61	12.7
30-Jan-24	168	86	34	11.67	13.9
31-Jan-24	176	89	37	16.16	17.6
01-Feb-24	164	79	30	10.3	17.92
02-Feb-24	188	92	40	13.88	14.16
07-Feb-24	172	83	35	14.64	18.01
08-Feb-24	186	91	38	12.81	17.85
16-Feb-24	174	82	33	16.23	17.85
17-Feb-24	192	90	38	19.23	15.53
26-Feb-24	174	86	35	15.03	10.82
27-Feb-24	168	84	33	13.79	11.14
07-Mar-24	192	93	42	10.25	15.24
08-Mar-24	173	82	31	11.52	15.28
14-Mar-24	180	87	34	13.54	12.52
15-Mar-24	164	73	27	10.52	15.52

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20-Mar-24	196	93	42	14.39	16.84
21-Mar-24	180	82	36	16.28	21.39
27-Mar-24	175	87	34	15.85	15.35
28-Mar-24	155	73	27	15.93	21.87
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	196	93	42	24.4	25.76
Minimum	136	60	21	10.05	10.08
Average	164.5	78.4	30.7	14.9	16.6
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 19

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring Station:** South of the MineAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	140	64	23	12	15
04-Apr-23	136	62	21	18	16
10-Apr-23	157	77	29	15	20
11-Apr-23	150	70	26	12	15
17-Apr-23	136	60	21	22	26
18-Apr-23	154	72	27	19	18
24-Apr-23	144	64	24	17	20
25-Apr-23	149	68	26	15	18
02-May-23	157	75	29	13.56	17.85
03-May-23	143	62	24	12.45	19.58
08-May-23	138	58	22	11.74	16.57
09-May-23	149	68	26	16.31	12.85
16-May-23	138	58	21	15.21	16.23
17-May-23	154	71	27	16.32	17.27
22-May-23	140	59	22	15.54	18.66
23-May-23	146	65	25	19.78	19.53
05-Jun-23	168	83	34	19.24	20.12
06-Jun-23	193	74	28	18.6	19.35
14-Jun-23	156	68	26	18.66	16.56
15-Jun-23	150	60	22	14.2	19.7
21-Jun-23	143	62	24	13.59	14.38
22-Jun-23	146	69	26	10.32	18.46
27-Jun-23	156	74	28	22.67	12.93
28-Jun-23	137	60	22	16.5	13.78
03-Jul-23	163	82	31	17.56	18.18
04-Jul-23	157	77	29	21.04	17.08
10-Jul-23	155	74	28	15.26	21.99
11-Jul-23	150	68	26	22.29	18.03
17-Jul-23	157	78	29	15.16	18.13
18-Jul-23	153	71	27	17.06	14.02
24-Jul-23	161	82	30	14.79	18.8
25-Jul-23	150	69	26	14.33	11.87
29-Jul-23	138	60	22	15.12	17.01
31-Jul-23	132	68	32	15.27	18.17
01-Aug-23	152	71	27	16.95	18.18
02-Aug-23	138	59	22	15.92	22.2
07-Aug-23	146	65	25	20.14	17.41
08-Aug-23	162	80	31	12.58	17.17
16-Aug-23	163	83	31	13.69	17.58
17-Aug-23	157	77	29	10.58	13.75
23-Aug-23	174	87	36	15.35	10.52
24-Aug-23	140	61	23	17.58	16.58
01-Sep-23	151	87	27	16.11	22.11
02-Sep-23	143	62	24	10.87	21.99

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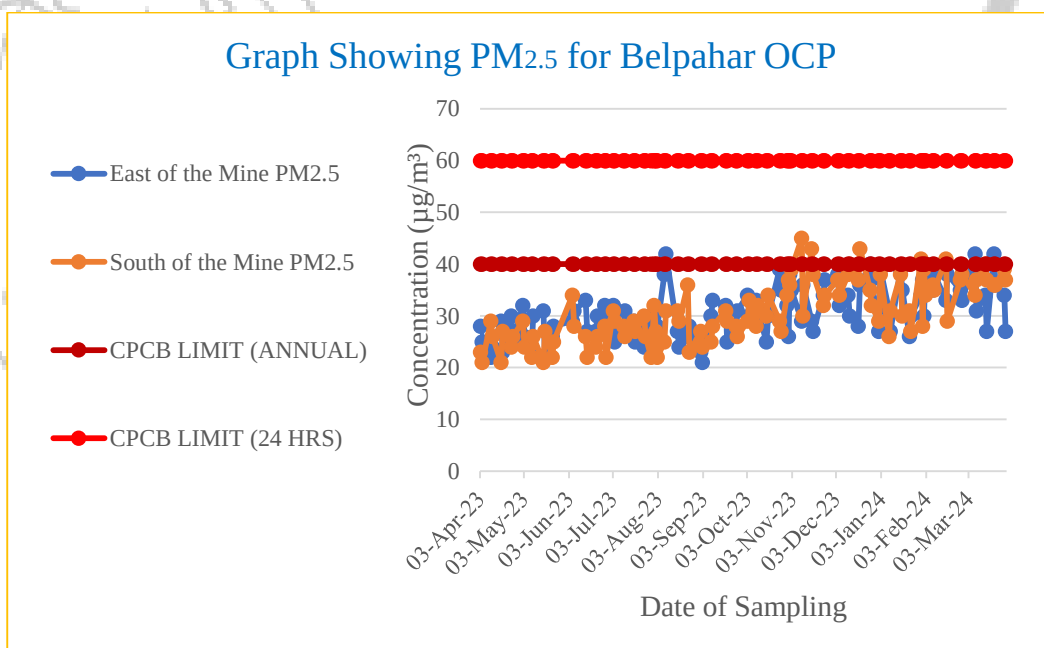
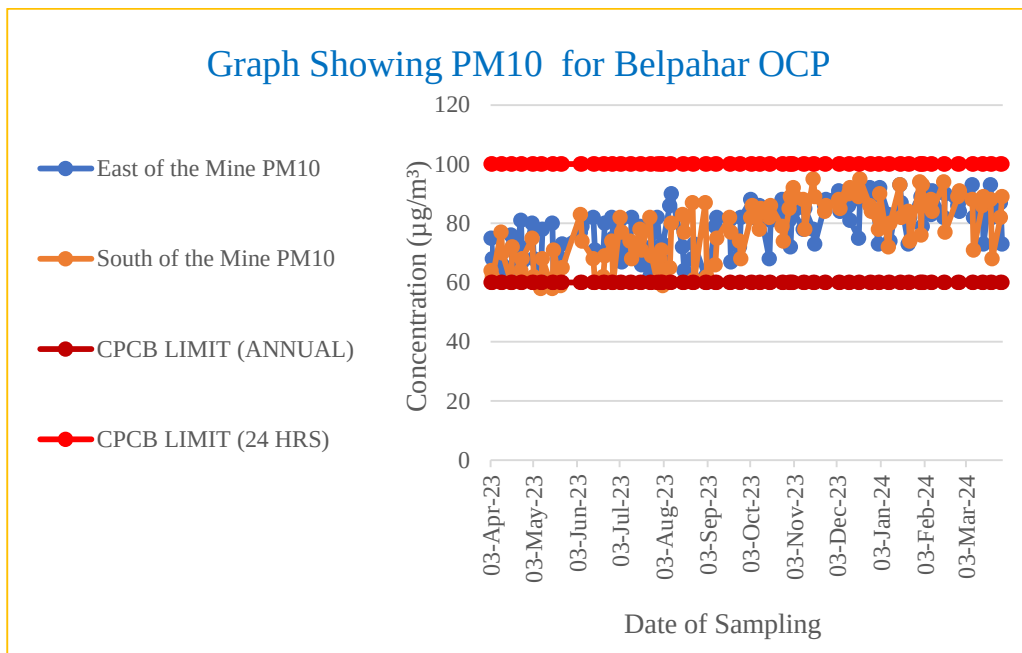
08-Sep-23	147	66	25	21.66	24.01
09-Sep-23	156	75	28	16.22	23.12
18-Sep-23	162	82	31	20.13	20.9
19-Sep-23	158	77	29	29.7	13.44
25-Sep-23	156	74	28	21.29	16.16
26-Sep-23	149	68	26	18.78	18.8
03-Oct-23	158	82	29	20.9	23.45
04-Oct-23	165	86	33	21.23	19.16
09-Oct-23	158	78	28	16.26	24.07
10-Oct-23	165	85	32	13.29	24.36
16-Oct-23	162	82	30	12.04	15.57
17-Oct-23	168	86	34	12.23	15.5
25-Oct-23	159	79	29	16.25	13.31
26-Oct-23	154	74	27	14.69	19.85
30-Oct-23	170	85	34	13.1	13.94
31-Oct-23	178	89	37	14.91	19.27
01-Nov-23	188	88	36	10.69	15.93
02-Nov-23	194	92	39	12.45	14.54
09-Nov-23	208	88	45	17.78	19.21
10-Nov-23	175	78	30	13.43	15.63
16-Nov-23	204	95	43	14.61	13.44
17-Nov-23	186	89	38	16.64	11.53
24-Nov-23	174	84	32	15.91	11.21
25-Nov-23	176	86	34	14.53	14.03
04-Dec-23	186	88	37	16.39	16.57
05-Dec-23	178	85	34	13.35	19.74
11-Dec-23	190	90	38	12.95	13.43
12-Dec-23	193	92	40	14.31	12.45
18-Dec-23	186	89	37	11.86	13.33
19-Dec-23	198	95	43	14.52	16.57
26-Dec-23	180	86	35	13.36	14.65
27-Dec-23	174	84	32	15.81	13.43
01-Jan-24	157	78	29	14.58	19.22
02-Jan-24	180	90	38	12.54	17.52
08-Jan-24	152	72	26	11.55	16.87
09-Jan-24	163	80	31	12.52	14.98
16-Jan-24	182	93	38	13.78	13.08
17-Jan-24	162	82	30	10.73	11.69
22-Jan-24	164	84	31	11.47	11.52
23-Jan-24	155	74	27	12.32	13.41
30-Jan-24	198	94	41	12.92	11.19
31-Jan-24	155	76	28	13.26	16.73
01-Feb-24	193	93	39	14.47	14.31
02-Feb-24	168	86	34	11.97	14.13
07-Feb-24	176	88	36	16.32	22.13
08-Feb-24	172	84	35	12.68	14.44
16-Feb-24	196	94	41	12.03	13.13
17-Feb-24	164	77	29	14.37	12.79
26-Feb-24	186	89	37	12.61	12.94
27-Feb-24	190	91	38	12.94	17.67
07-Mar-24	178	88	34	12.56	18.57
08-Mar-24	164	71	37	16.58	13.56
14-Mar-24	210	86	40	13.52	18.54
15-Mar-24	179	89	37	12.58	17.32

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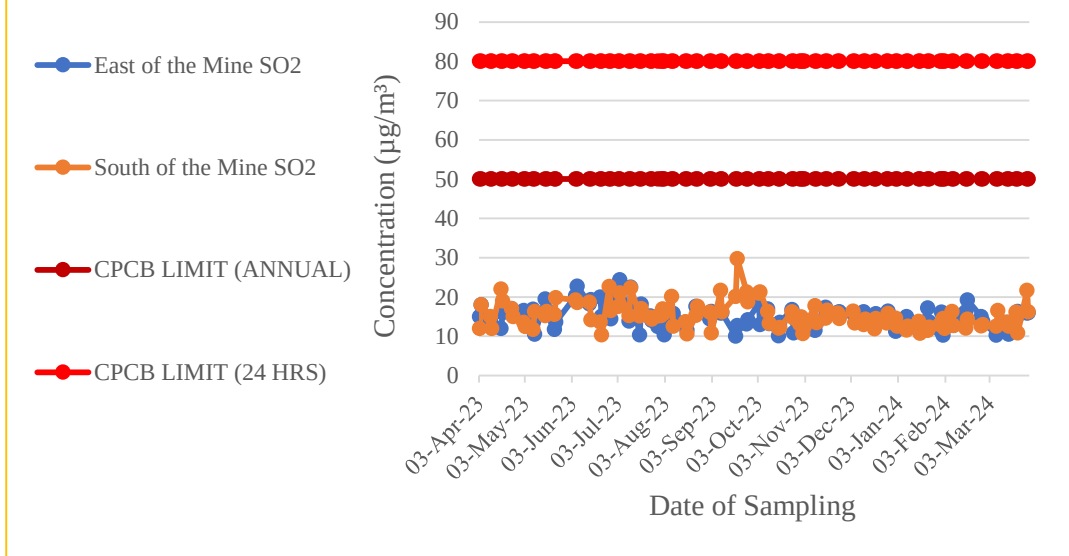
20-Mar-24	182	88	36	16.11	22.11
21-Mar-24	196	68	36	10.87	21.99
27-Mar-24	206	82	39	21.66	24.01
28-Mar-24	185	89	37	16.22	23.12
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	210	95	45	29.7	26
Minimum	132	58	21	10.32	10.52
Average	164.6	77.7	30.7	15.4	17.1
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Graph Showing SO_x for Belpahar OCP



Graph Showing NO_x for Belpahar OCP

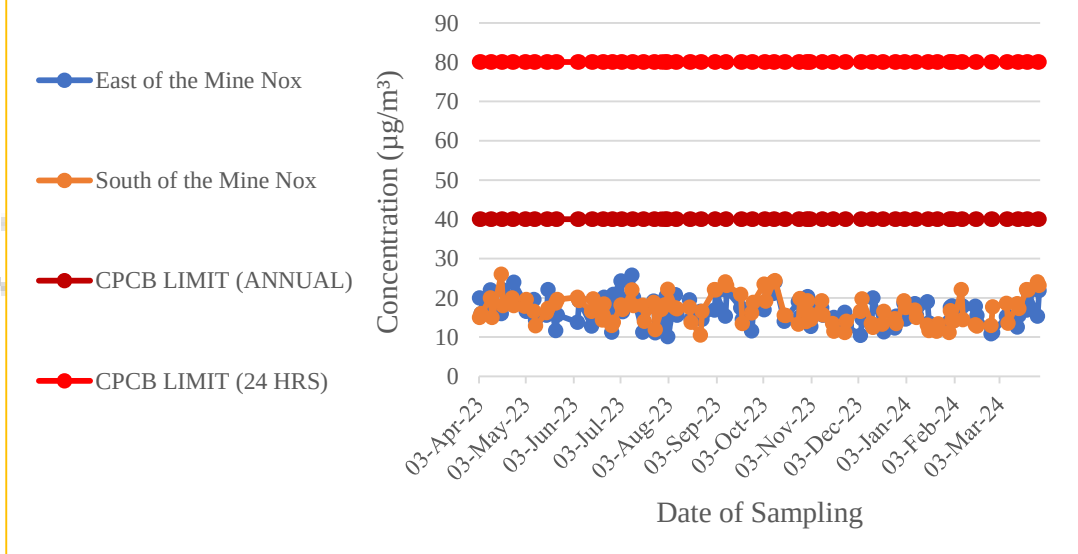
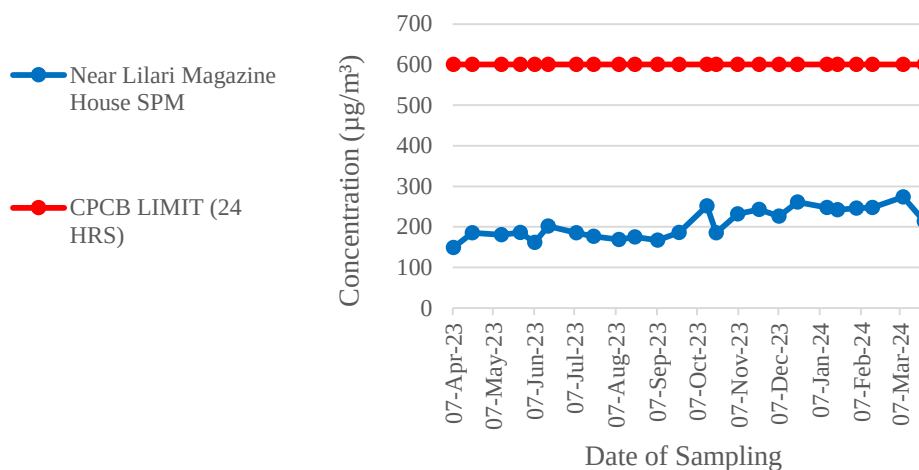


Table: 20

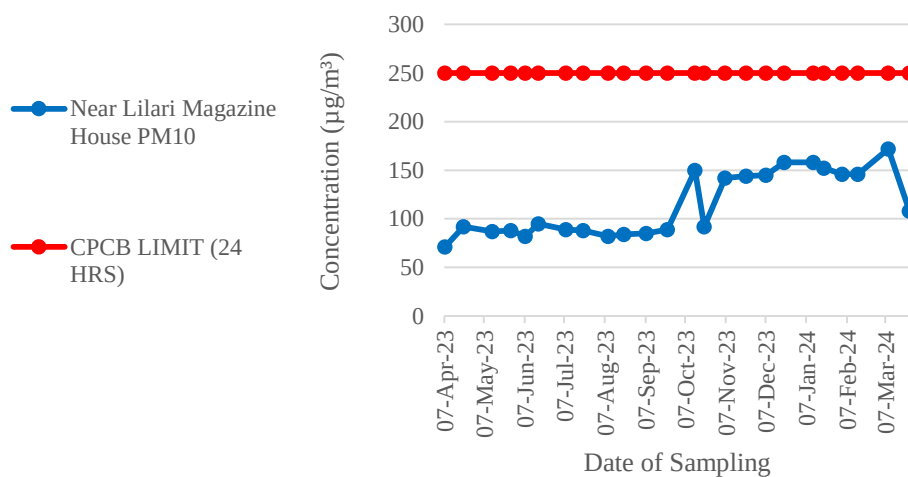
Area: Lakhanpur**Project:** Lilari OCP**Monitoring Station:** Near Lilari Magazine HouseAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
07-Apr-23	149	71	26	14.93	21.73
21-Apr-23	185	92	39	14.82	25.29
13-May-23	181	87	38	16.32	14.91
27-May-23	186	88	40	12.74	17.37
07-Jun-23	162	82	31	17.92	14.7
17-Jun-23	202	95	46	14.22	12.75
08-Jul-23	185	89	40	12.86	18.54
21-Jul-23	177	88	37	13.43	18.78
09-Aug-23	169	82	34	10.8	13.9
21-Aug-23	175	84	36	12.25	16.58
07-Sep-23	167	85	34	18.57	16.09
23-Sep-23	186	89	40	19.31	18.41
14-Oct-23	252	150	58	16.96	25.11
21-Oct-23	185	92	39	11.83	14.68
06-Nov-23	232	142	45	17.04	17
22-Nov-23	243	144	52	16.67	17.59
07-Dec-23	226	145	53	15.77	12.9
21-Dec-23	261	158	62	16.84	18.32
12-Jan-24	248	158	62	13.58	15.28
20-Jan-24	242	152	58	15.97	11.53
03-Feb-24	246	146	58	11.71	14.88
15-Feb-24	248	146	58	15.65	18.23
09-Mar-24	274	172	67	17.58	13.56
25-Mar-24	214	108	46	12.86	18.54
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	261	158	62	19.31	25.29
Minimum	149	71	26	10.8	11.53
Average	204.9	112.0	44.8	15.0	17.0
Standard 24 hr	500	250		120	120

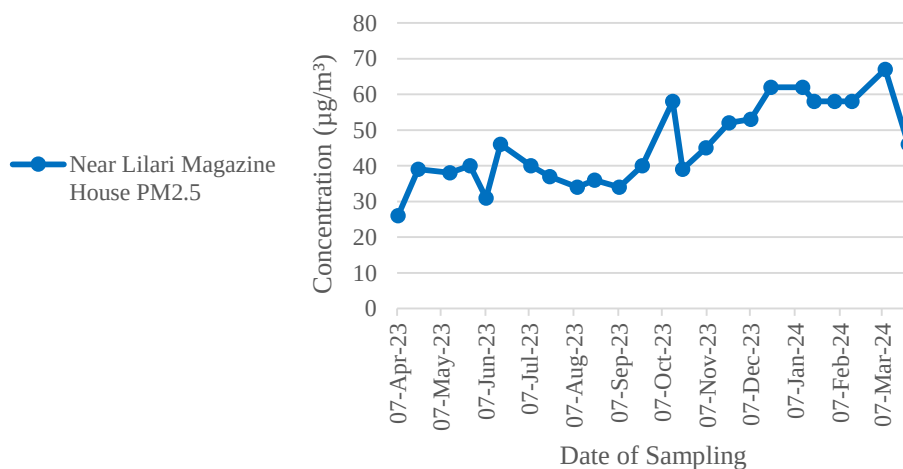
Graph Showing SPM for Lilari OCP



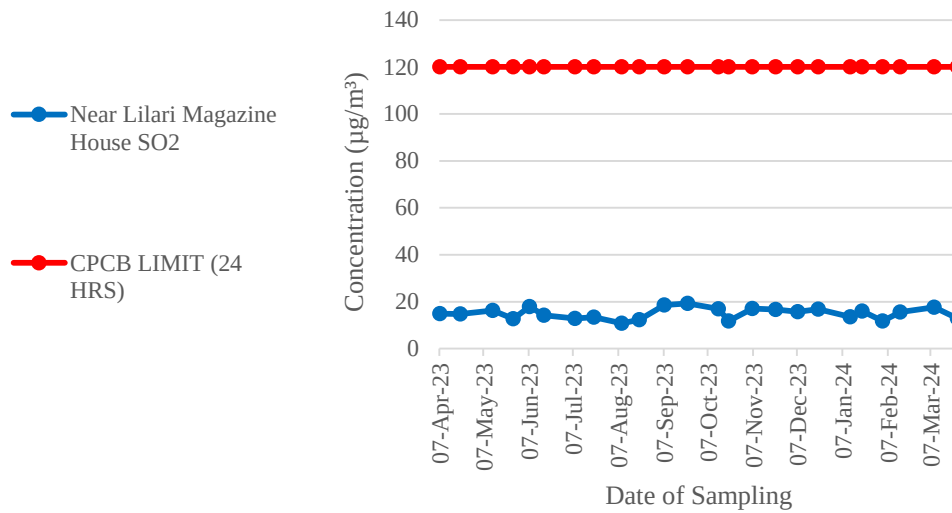
Graph Showing PM10 for Lilari OCP



Graph Showing PM2.5 for Lilari OCP



Graph Showing SOX for Lilari OCP



Graph Showing NOX for Lilari OCP

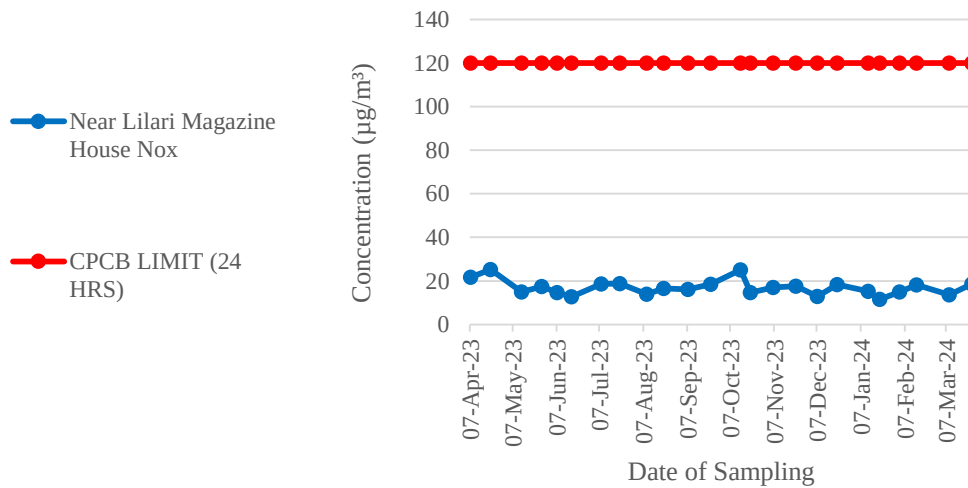
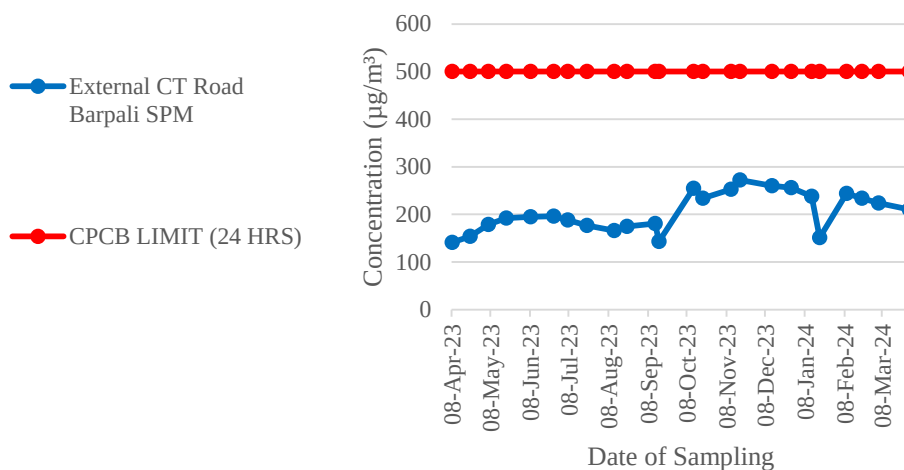


Table: 21

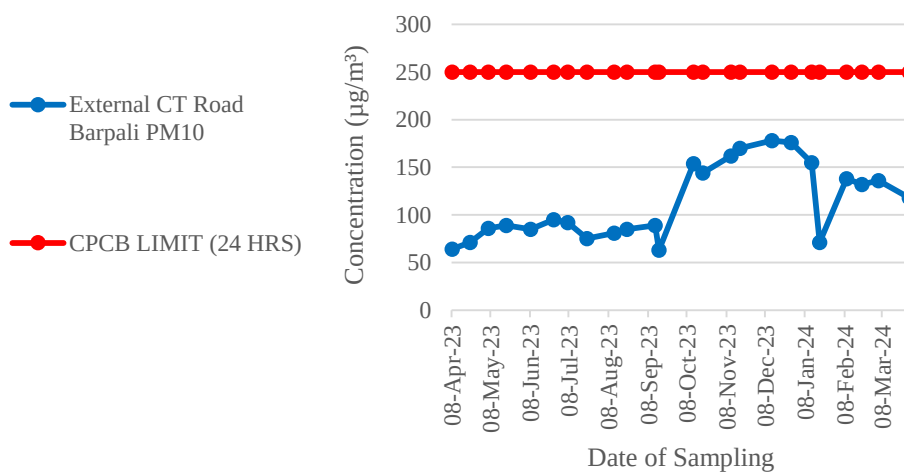
Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** External CT RoadAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	141	64	23	14.44	23.26
22-Apr-23	154	71	27	17.7	21.16
06-May-23	179	86	37	18.65	14.98
20-May-23	192	89	41	16.78	18.26
08-Jun-23	195	85	46	22.27	17.36
26-Jun-23	196	95	44	12.15	17.59
07-Jul-23	188	92	41	12.58	22.33
22-Jul-23	177	75	37	14.97	17.06
12-Aug-23	166	81	33	15.44	16.32
22-Aug-23	175	85	36	13.89	19.85
13-Sep-23	181	89	38	15.79	15.29
16-Sep-23	143	63	24	12.77	16.3
13-Oct-23	255	154	62	16.3	19.49
20-Oct-23	234	144	48	15.46	16.3
11-Nov-23	253	162	55	11.99	18.41
18-Nov-23	272	170	65	15.37	18.98
13-Dec-23	260	178	68	16.45	14.88
28-Dec-23	256	176	66	17.35	16.14
13-Jan-24	238	155	58	12.15	14.89
19-Jan-24	151	71	26	12.74	13.13
09-Feb-24	244	138	57	11.72	14.45
21-Feb-24	234	132	50	16.7	14.59
05-Mar-24	224	136	52	10.52	13.21
29-Mar-24	210	118	48	15.79	15.29
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	272	178	68	22.27	23.26
Minimum	141	63	23	11.72	13.13
Average	203.8	111.6	44.6	15.2	17.3
Standard 24 hr	500	250		120	120

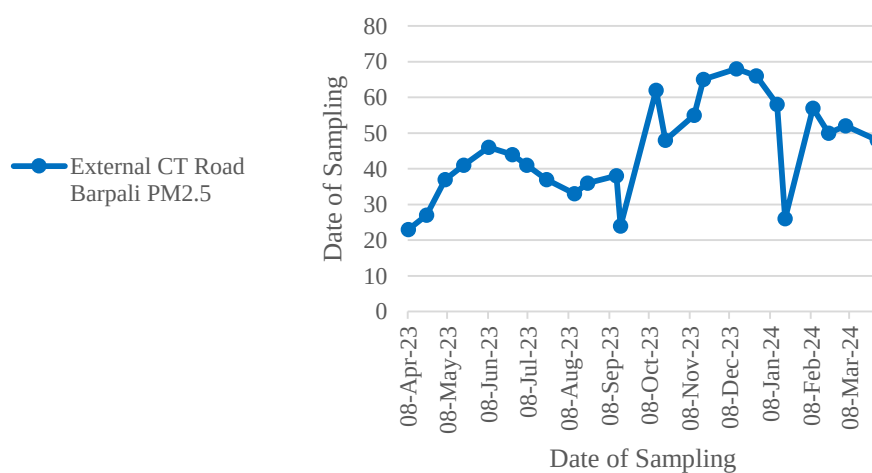
Graph Showing SPM for Kulda OCP



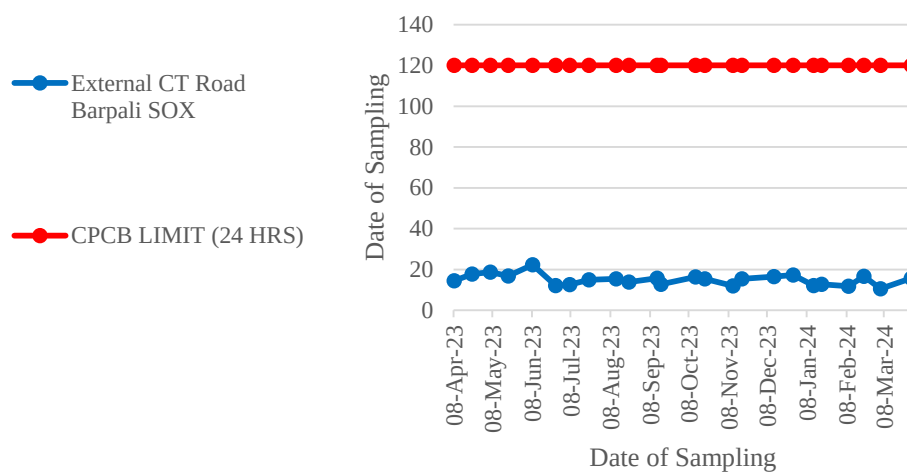
Graph Showing PM10 for Kulda OCP



Graph Showing PM2.5 for Kulda OCP



Graph Showing SOX for Kulda OCP



Graph Showing NOX for Kulda OCP

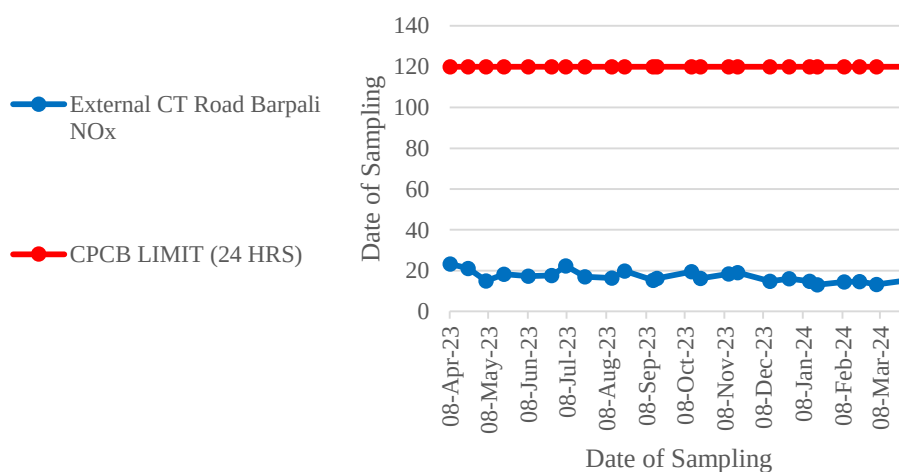


Table: 22

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** North of CHPAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	154	74	27	15	15
06-Apr-23	136	62	21	19	16
12-Apr-23	147	68	25	15	12
13-Apr-23	158	77	29	16	24
19-Apr-23	138	61	22	9	19
20-Apr-23	163	82	31	13	20
26-Apr-23	160	80	30	17	25
27-Apr-23	153	71	27	16	19
04-May-23	163	82	31	16.94	20.25
05-May-23	149	68	26	17.89	22.56
10-May-23	140	62	23	17.25	14.56
11-May-23	138	59	22	14.06	18.65
18-May-23	158	76	29	13.85	17.49
19-May-23	166	82	33	13.61	13.22
24-May-23	161	78	30	10.35	14.16
25-May-23	206	96	48	13.49	17.07
01-Jun-23	162	82	31	14.57	14.94
02-Jun-23	155	74	28	19.2	22.83
12-Jun-23	149	68	26	13.98	12.53
13-Jun-23	153	71	27	17.11	17.94
19-Jun-23	153	73	27	15.41	15.52
20-Jun-23	158	76	29	12.8	12.12
23-Jun-23	146	66	25	11.97	15.82
24-Jun-23	162	79	30	16	15.18
29-Jun-23	156	73	28	16.7	19.17
30-Jun-23	149	69	26	19.94	15.59
05-Jul-23	163	82	31	16.38	19.13
06-Jul-23	158	77	29	10.98	16.49
12-Jul-23	146	66	25	20.08	14.59
13-Jul-23	141	62	23	17.89	25.01
19-Jul-23	138	60	22	21.44	18.68
20-Jul-23	146	67	25	12.95	15.1
26-Jul-23	151	69	26	13.03	16.04
27-Jul-23	156	75	28	18.92	15.34
03-Aug-23	149	68	26	19.41	20.04
04-Aug-23	158	76	29	15.03	16.49
10-Aug-23	165	82	33	17.49	22.38
11-Aug-23	160	78	30	14.81	22.24
18-Aug-23	141	61	23	11.52	16.58
19-Aug-23	153	71	27	14.58	17.45
25-Aug-23	138	61	22	13.45	16.58
26-Aug-23	163	82	31	16.58	13.45
04-Sep-23	145	66	25	14.39	19.5
05-Sep-23	158	78	29	15.77	20.1

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11-Sep-23	142	61	23	16.96	18.8
12-Sep-23	144	63	24	17.99	19.73
20-Sep-23	138	60	22	15.19	25.26
21-Sep-23	162	82	31	10.9	22.15
27-Sep-23	157	77	29	18.78	16.82
28-Sep-23	146	66	25	18.64	15.2
29-Sep-23	141	62	23	15.17	25.11
30-Sep-23	162	81	30	10.89	18.64
05-Oct-23	166	85	32	17.9	12.82
06-Oct-23	157	76	28	13.91	15.22
11-Oct-23	172	88	35	20	16.92
12-Oct-23	160	82	29	21.1	12.3
18-Oct-23	248	97	54	15.32	18.85
19-Oct-23	153	72	27	10.4	14.88
27-Oct-23	160	77	29	11.28	16.9
28-Oct-23	145	66	24	11.31	14.86
03-Nov-23	192	76	37	16.31	15.74
04-Nov-23	188	73	36	12.81	18.7
13-Nov-23	195	82	39	14.16	13.84
14-Nov-23	198	92	40	12.55	14.92
20-Nov-23	167	78	29	15.74	16.26
21-Nov-23	178	86	34	15.37	18.37
27-Nov-23	182	89	36	13.4	14.13
28-Nov-23	185	92	38	22.09	19.26
01-Dec-23	166	78	29	11.37	15.29
02-Dec-23	178	86	34	15.17	16.1
08-Dec-23	184	87	36	16.35	14.02
09-Dec-23	185	88	37	12.42	15.11
15-Dec-23	188	90	38	12.65	15.36
16-Dec-23	181	86	35	10.26	16.79
22-Dec-23	173	81	32	14.36	17.32
23-Dec-23	167	78	29	16.81	18.32
29-Dec-23	184	88	36	17.36	16.73
30-Dec-23	170	83	31	14.89	17.65
03-Jan-24	175	85	36	11.87	15.21
04-Jan-24	164	80	31	14.45	15.58
10-Jan-24	155	73	27	12.25	14.12
11-Jan-24	156	75	28	15.98	16.54
18-Jan-24	154	74	27	17.8	17.8
19-Jan-24	172	86	34	15.74	10.24
24-Jan-24	165	81	32	11.02	12.5
25-Jan-24	184	92	38	17.55	17.8
05-Feb-24	194	92	40	17.6	16.31
06-Feb-24	174	86	35	16.78	18.37
12-Feb-24	192	92	39	13.64	21.38
13-Feb-24	155	76	28	14.39	14.33
19-Feb-24	198	93	39	12.92	11.8
20-Feb-24	186	88	37	17.03	15.81
23-Feb-24	174	85	33	13.28	10.99
24-Feb-24	178	87	35	16.8	12.14
28-Feb-24	166	83	31	17.96	13.03
29-Feb-24	155	72	26	16.99	13.98
01-Mar-24	184	83	36	12.52	18.54
02-Mar-24	168	78	30	10.52	17.54

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11-Mar-24	210	96	45	13.52	15.85
12-Mar-24	173	83	31	15.42	17.58
18-Mar-24	183	83	36	14.39	19.5
19-Mar-24	174	80	32	15.77	20.1
22-Mar-24	196	96	43	16.96	18.8
23-Mar-24	178	83	34	17.99	19.73
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	248	97	54	22.09	25.26
Minimum	136	59	21	9	10.24
Average	164.8	77.7	30.7	15.2	17.0
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 23

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** South West of Working Face, ChakarpurAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	144	65	24	15	15
06-Apr-23	162	82	30	14	20
12-Apr-23	156	75	28	17	17
13-Apr-23	165	84	32	14	18
19-Apr-23	167	84	33	16	14
20-Apr-23	155	74	28	14	14
26-Apr-23	164	82	32	16	16
27-Apr-23	156	73	28	13	15
04-May-23	161	81	30	12.52	16.58
05-May-23	156	74	28	11.56	18.59
10-May-23	164	84	32	13.56	19.56
11-May-23	147	66	25	12.56	14.56
18-May-23	150	67	26	14.05	13.24
19-May-23	138	60	22	13.58	15.4
24-May-23	169	82	34	14.01	18.15
25-May-23	176	84	36	12.05	14.84
01-Jun-23	168	85	34	20.13	20.95
02-Jun-23	163	82	31	20.22	13.38
12-Jun-23	177	87	36	19.33	12.13
13-Jun-23	160	81	30	16.31	19.98
19-Jun-23	163	80	31	17.6	22.54
20-Jun-23	157	75	29	20.5	20.14
23-Jun-23	164	81	32	14.8	19.56
24-Jun-23	165	84	33	10.84	22.57
29-Jun-23	153	71	27	11.46	13.71
30-Jun-23	161	78	30	10.48	15.17
05-Jul-23	161	81	30	14.73	17.2
06-Jul-23	156	74	28	17.51	19.34
12-Jul-23	163	84	32	21.27	16.4
13-Jul-23	146	66	25	16.03	18.26
19-Jul-23	140	62	23	14.27	24.64
20-Jul-23	163	83	31	13.68	14.1
26-Jul-23	157	76	29	15.26	15.26
27-Jul-23	149	68	26	17.02	11.08
03-Aug-23	154	74	28	15.27	18.84
04-Aug-23	148	67	26	11.85	22.43
10-Aug-23	157	75	29	16.1	21.59
11-Aug-23	164	81	32	16.03	12.45
18-Aug-23	159	80	30	13.56	17.45
19-Aug-23	152	71	27	18.45	13.33
25-Aug-23	166	84	33	13.52	16.39
26-Aug-23	156	74	28	11.52	14.58
04-Sep-23	150	68	26	12.96	20.7
05-Sep-23	138	59	22	18.61	19.92

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11-Sep-23	155	76	28	15.39	21.06
12-Sep-23	162	82	31	16.09	23.78
20-Sep-23	152	71	27	12.12	15.1
21-Sep-23	156	74	28	16.02	24.62
27-Sep-23	165	84	32	21.25	15.32
28-Sep-23	147	66	25	15.17	20.63
29-Sep-23	154	73	28	12.57	16.16
30-Sep-23	146	65	25	16.78	19.2
05-Oct-23	164	84	32	17.93	22.26
06-Oct-23	158	78	28	13.29	18.74
11-Oct-23	155	75	27	23.71	20.55
12-Oct-23	163	83	30	21.1	12.3
18-Oct-23	151	70	26	16.23	16.97
19-Oct-23	158	80	29	12.55	12.3
27-Oct-23	156	76	28	15.12	16.58
28-Oct-23	168	86	33	13.19	16.24
03-Nov-23	192	87	38	15.56	14.86
04-Nov-23	185	83	35	11.83	15.48
13-Nov-23	182	86	34	12.77	16.15
14-Nov-23	164	72	26	17.77	17.32
20-Nov-23	180	86	35	16.1	14.2
21-Nov-23	210	96	45	19.04	18.99
27-Nov-23	198	94	42	11.93	19.53
28-Nov-23	190	91	39	13.45	16.61
01-Dec-23	194	81	40	16.06	12.8
02-Dec-23	196	94	42	18.6	17.83
08-Dec-23	192	92	39	22.92	12.71
09-Dec-23	185	89	37	17.12	18.14
22-Dec-23	193	92	40	14.92	16.32
23-Dec-23	182	87	35	13.87	16.35
29-Dec-23	176	85	33	13.84	12.3
30-Dec-23	172	80	31	15.65	15.98
03-Jan-24	162	82	31	11.58	14.75
04-Jan-24	175	88	36	13.54	17.58
10-Jan-24	164	79	32	16.58	18.56
11-Jan-24	156	76	28	18.98	16.35
18-Jan-24	170	58	34	15.37	17.8
19-Jan-24	196	95	40	16.4	13.48
24-Jan-24	164	62	31	11.37	13.5
25-Jan-24	158	79	29	9.22	13.69
05-Feb-24	152	74	27	10.24	13.33
06-Feb-24	165	85	32	10.55	11.12
12-Feb-24	162	82	30	12.11	14.29
13-Feb-24	185	92	38	11.95	10.81
19-Feb-24	161	76	28	10.16	15.91
20-Feb-24	178	86	34	14.47	17.25
23-Feb-24	158	74	27	16.69	12.23
24-Feb-24	174	84	32	16.73	12.8
28-Feb-24	164	78	29	16.54	15.87
29-Feb-24	194	82	39	13.41	11.29
01-Mar-24	184	85	38	18.54	12.56
02-Mar-24	198	96	43	15.42	16.52
11-Mar-24	195	89	40	18.54	15.85
12-Mar-24	166	78	29	15.21	17.52

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18-Mar-24	186	85	38	12.96	20.7
19-Mar-24	194	94	41	18.61	19.92
22-Mar-24	190	89	38	15.39	21.06
23-Mar-24	176	78	34	16.09	23.78
29-Mar-24	158	70	26	12.88	19.84
30-Mar-24	166	91	30	13.49	15.2
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	210	96	45	23.71	24.64
Minimum	138	58	22	9.22	10.81
Average	166.3	79.4	31.4	15.1	16.8
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 24

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** Bihaimunda village/ South west of working face (Reported)All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	162	82	30	17	16
06-Apr-23	155	75	28	15	16
12-Apr-23	149	72	26	14	16
13-Apr-23	157	78	29	16	20
19-Apr-23	141	62	21	17	19
20-Apr-23	143	63	23	12	23
26-Apr-23	146	67	25	15	19
27-Apr-23	153	72	27	12	16
04-May-23	150	67	26	15.55	14.57
05-May-23	155	73	28	12.54	13.56
10-May-23	141	62	23	12.56	16.58
11-May-23	150	69	26	15.65	18.32
18-May-23	144	63	24	13.13	13.28
19-May-23	163	79	30	15.15	17.76
24-May-23	147	66	25	13.95	15.73
25-May-23	156	74	28	17.57	14.01
01-Jun-23	161	81	30	13.1	15.67
02-Jun-23	149	68	26	15.71	14.62
12-Jun-23	164	83	32	21.9	15.85
13-Jun-23	168	85	34	17.4	21.12
19-Jun-23	148	69	26	18.95	20.58
20-Jun-23	165	82	32	14.06	16.82
23-Jun-23	162	79	30	10.36	19.68
24-Jun-23	156	74	28	12.66	15.14
29-Jun-23	144	63	24	12.11	17.53
30-Jun-23	152	74	27	12.29	21.54
05-Jul-23	151	69	26	17.89	14.73
06-Jul-23	155	73	28	20.17	15.55
12-Jul-23	146	66	25	15.48	16.61
13-Jul-23	150	68	26	17.84	22.47
19-Jul-23	168	86	34	13.15	17.9
20-Jul-23	162	93	31	19.44	19.56
26-Jul-23	157	77	29	10.9	16.11
27-Jul-23	154	73	27	13.68	18.13
03-Aug-23	152	71	27	15.01	12.13
04-Aug-23	144	63	24	11.99	22.1
10-Aug-23	162	79	30	16.04	17.44
11-Aug-23	145	66	25	12.09	19.88
18-Aug-23	156	74	28	11.52	14.58
19-Aug-23	143	63	24	13.98	16.45
25-Aug-23	137	60	21	11.52	16.35
26-Aug-23	140	63	23	13.85	14.77

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04-Sep-23	145	65	25	13.46	21.79
05-Sep-23	153	75	28	15.43	21.12
11-Sep-23	151	72	27	16.64	22.05
12-Sep-23	157	79	29	12.48	16.91
20-Sep-23	150	68	26	16.37	19.79
21-Sep-23	157	78	29	21.42	22.09
27-Sep-23	144	63	24	24.36	16.16
28-Sep-23	161	81	30	9.69	17.34
29-Sep-23	164	84	32	22.42	12.75
30-Sep-23	146	67	25	14.25	22.68
05-Oct-23	172	88	34	17.46	16.25
06-Oct-23	162	82	30	23.51	20.37
11-Oct-23	157	78	28	16.57	19.16
12-Oct-23	155	76	27	20.99	14.2
18-Oct-23	155	73	27	12.5	16.11
19-Oct-23	166	85	33	14.3	14.76
27-Oct-23	182	90	38	10.87	12.03
28-Oct-23	165	83	31	12.58	16.66
03-Nov-23	186	86	35	10.1	17.57
04-Nov-23	180	83	32	13.03	14.78
13-Nov-23	195	91	39	10.61	13.63
14-Nov-23	182	88	34	13.12	17.55
20-Nov-23	180	86	35	14.8	22.32
21-Nov-23	176	84	33	15.93	15.45
27-Nov-23	188	90	38	17.82	15.54
28-Nov-23	196	93	42	11.69	12.49
01-Dec-23	195	94	42	17.65	21.08
02-Dec-23	180	84	35	17.34	18.36
08-Dec-23	192	92	39	14.44	11.82
09-Dec-23	170	79	30	11.92	14.13
15-Dec-23	184	85	36	11.76	14.75
16-Dec-23	183	89	36	11.69	21.36
22-Dec-23	195	93	41	11.35	12.98
23-Dec-23	183	87	35	14.38	15.66
29-Dec-23	168	83	31	17.95	16.78
30-Dec-23	158	74	26	13.61	13.36
03-Jan-24	192	93	39	13.87	16.87
04-Jan-24	153	74	27	10.58	13.54
10-Jan-24	165	84	32	10.24	13.52
11-Jan-24	170	86	34	13.17	10.25
18-Jan-24	156	76	28	13.14	12.22
19-Jan-24	150	72	26	13.68	13.04
24-Jan-24	168	86	34	11.69	14.14
25-Jan-24	184	90	38	12.35	11.73
05-Feb-24	172	86	34	10.18	16.69
06-Feb-24	192	93	39	11.48	12.88
12-Feb-24	165	84	32	16.36	16.45
13-Feb-24	174	88	35	10.15	17.82
19-Feb-24	180	89	36	16.84	10.02
20-Feb-24	174	85	33	11.86	13.72
23-Feb-24	194	93	39	14.32	16.8
24-Feb-24	205	96	43	15.28	18.91
28-Feb-24	168	83	31	15.55	12.56
29-Feb-24	180	88	35	12.7	14.08

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01-Mar-24	166	79	29	11.32	15.54
02-Mar-24	190	86	38	12.52	13.52
11-Mar-24	188	78	36	13.56	15.24
12-Mar-24	198	95	42	18.57	14.58
18-Mar-24	208	93	40	16.64	22.05
19-Mar-24	190	87	38	12.48	16.91
22-Mar-24	167	78	29	13.11	14.77
23-Mar-24	186	91	35	18.11	16.25
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	208	96	43	24.36	23
Minimum	137	60	21	9.69	10.02
Average	165.1	78.9	30.8	14.5	16.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 25

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** West of Working Face, BilaimundaAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	156	72	26	17	16
06-Apr-23	159	78	29	12	18
12-Apr-23	153	74	27	14	17
13-Apr-23	143	66	24	13	19
19-Apr-23	160	81	30	16	21
20-Apr-23	144	65	24	13	24
26-Apr-23	142	61	22	17	20
27-Apr-23	102	58	20	16	17
04-May-23	137	60	22	13.41	11.89
05-May-23	146	65	25	15.65	19.56
10-May-23	153	71	27	12.56	14.59
11-May-23	162	79	30	15.42	19.88
18-May-23	165	82	33	14.8	16.44
19-May-23	162	80	31	13.38	16.27
24-May-23	154	71	27	15.27	19.79
25-May-23	146	65	25	16.1	14.95
01-Jun-23	164	84	32	17.67	10.85
02-Jun-23	143	87	24	13.37	18.58
12-Jun-23	158	76	29	14.64	23.96
13-Jun-23	153	72	27	15.51	13.81
19-Jun-23	156	73	28	12.93	14.04
20-Jun-23	149	68	26	13.43	17.59
23-Jun-23	164	83	32	18.66	19.56
24-Jun-23	141	62	23	14.34	11.98
29-Jun-23	143	64	24	11.93	15.54
30-Jun-23	138	60	22	12.04	18.73
05-Jul-23	154	73	28	21.87	18.35
06-Jul-23	147	65	25	11.68	21.22
12-Jul-23	159	77	29	14.8	22.22
13-Jul-23	162	79	30	16.36	20.18
19-Jul-23	156	76	28	11.18	12.69
20-Jul-23	144	63	24	16.77	17.01
26-Jul-23	150	70	26	17.33	20.08
27-Jul-23	153	72	27	16.51	13.57
03-Aug-23	158	77	29	19.94	16.42
04-Aug-23	166	82	33	22.74	17.53
10-Aug-23	162	80	31	17.26	18.52
11-Aug-23	152	71	27	18.12	22.82
18-Aug-23	164	82	32	13.52	16.45
19-Aug-23	155	73	28	18.54	15.65
25-Aug-23	161	81	30	14.52	17.54
26-Aug-23	143	65	24	13.52	13.56
04-Sep-23	150	67	26	12.88	19.84
05-Sep-23	139	60	22	13.49	15.2

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11-Sep-23	164	82	32	17.9	17.95
12-Sep-23	155	74	28	16.1	22.81
20-Sep-23	148	68	26	19.3	22.23
21-Sep-23	159	77	29	19.5	21.84
27-Sep-23	161	79	30	24.01	20.28
28-Sep-23	153	74	28	11.52	26.88
29-Sep-23	138	60	22	15.17	23.32
30-Sep-23	144	63	24	10.24	13.45
05-Oct-23	158	76	28	21.72	20.31
06-Oct-23	165	84	32	13.91	14.33
11-Oct-23	162	82	29	16.17	11.97
12-Oct-23	164	84	31	20.07	14.85
18-Oct-23	164	84	32	15.52	13.78
19-Oct-23	172	87	35	12.87	16.12
27-Oct-23	154	74	27	14.25	17.41
28-Oct-23	162	82	30	13.75	17.36
03-Nov-23	204	93	42	12.82	22.31
04-Nov-23	175	66	30	16.16	18.19
13-Nov-23	180	84	33	12.79	10.91
14-Nov-23	188	88	37	12.97	11.34
20-Nov-23	168	79	29	19.83	23.8
21-Nov-23	176	84	33	20.95	20.65
27-Nov-23	182	87	36	15.73	11.33
28-Nov-23	174	81	32	16.08	13.31
01-Dec-23	184	89	36	13.61	13.36
02-Dec-23	172	84	32	15.48	17.17
08-Dec-23	182	86	35	19.51	14.8
09-Dec-23	190	90	38	15.29	11.45
15-Dec-23	178	85	34	14.7	12.42
16-Dec-23	165	79	29	15.27	13.33
22-Dec-23	166	77	29	14.12	15.29
23-Dec-23	182	86	35	15.17	16.1
29-Dec-23	192	90	38	13.98	14.02
30-Dec-23	173	83	31	16.38	15.36
03-Jan-24	162	92	31	12.22	15.98
04-Jan-24	172	86	35	12.57	17.89
10-Jan-24	160	78	29	10.45	15.87
11-Jan-24	178	89	37	12.54	15.1
18-Jan-24	168	84	33	12.65	12.81
19-Jan-24	180	92	38	10.15	13.82
24-Jan-24	176	88	36	13.48	13.57
25-Jan-24	186	95	41	12.64	18.68
05-Feb-24	166	85	33	12.44	16.25
06-Feb-24	182	89	36	14.69	12.02
12-Feb-24	188	94	40	15.09	14.07
13-Feb-24	156	75	28	13.97	15.95
19-Feb-24	162	79	28	17.07	15.65
20-Feb-24	204	93	40	16.5	19.12
23-Feb-24	160	75	28	17.43	15.41
24-Feb-24	198	95	42	13.91	13.59
28-Feb-24	175	85	33	14.47	10.25
29-Feb-24	188	91	38	17.39	15.77
01-Mar-24	162	71	26	15.54	18.54
02-Mar-24	184	91	38	18.45	14.58

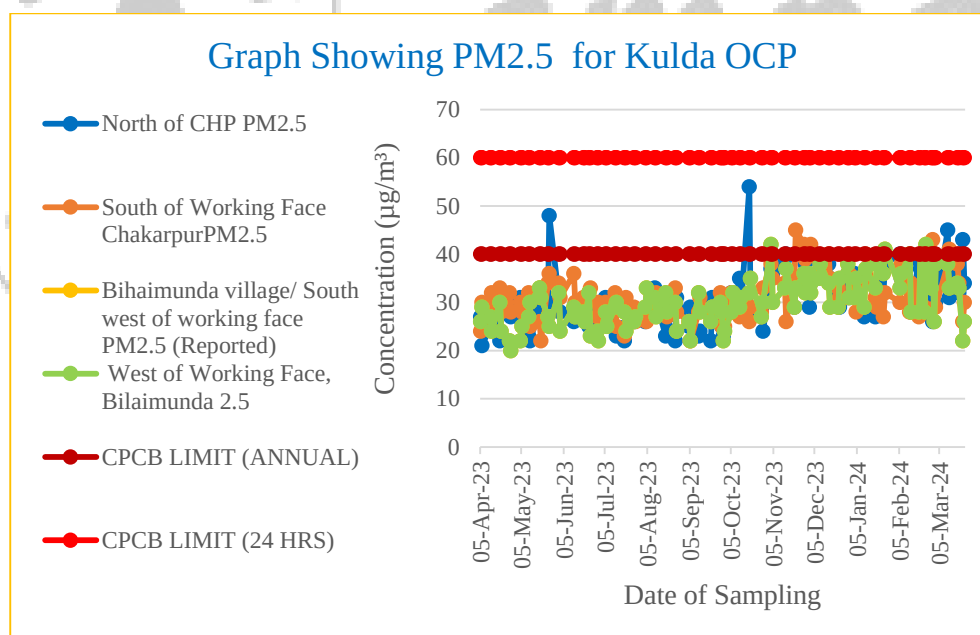
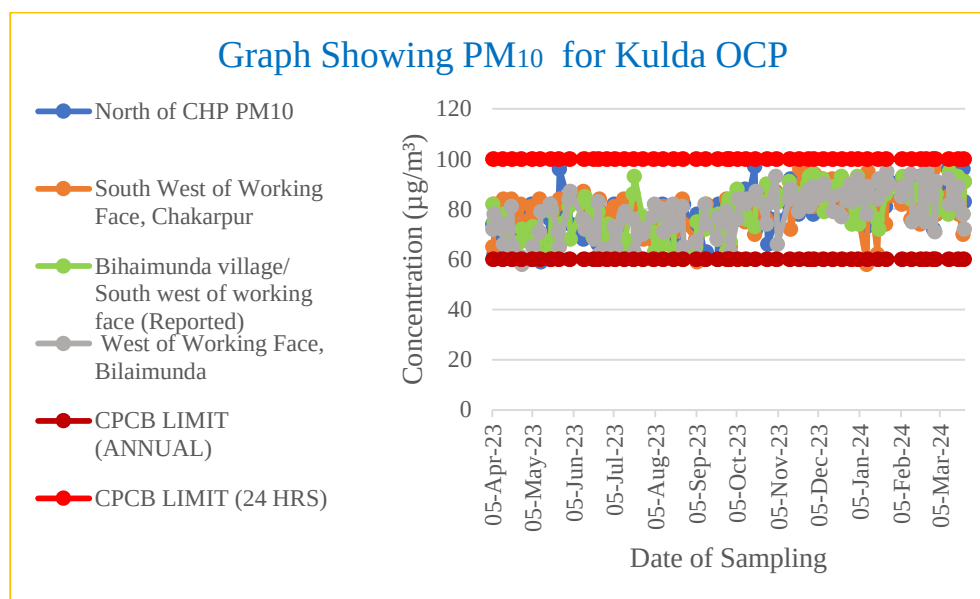
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11-Mar-24	196	92	38	15.42	13.52
12-Mar-24	175	82	33	18.57	19.58
18-Mar-24	178	89	34	17.9	17.95
19-Mar-24	172	82	33	16.1	22.81
22-Mar-24	165	78	22	16.6	14.39
23-Mar-24	160	72	26	16.32	12.51
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	204	95	42	24.01	26.88
Minimum	102	58	20	10.15	10.25
Average	163.2	78.2	30.2	15.4	16.8
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table:27



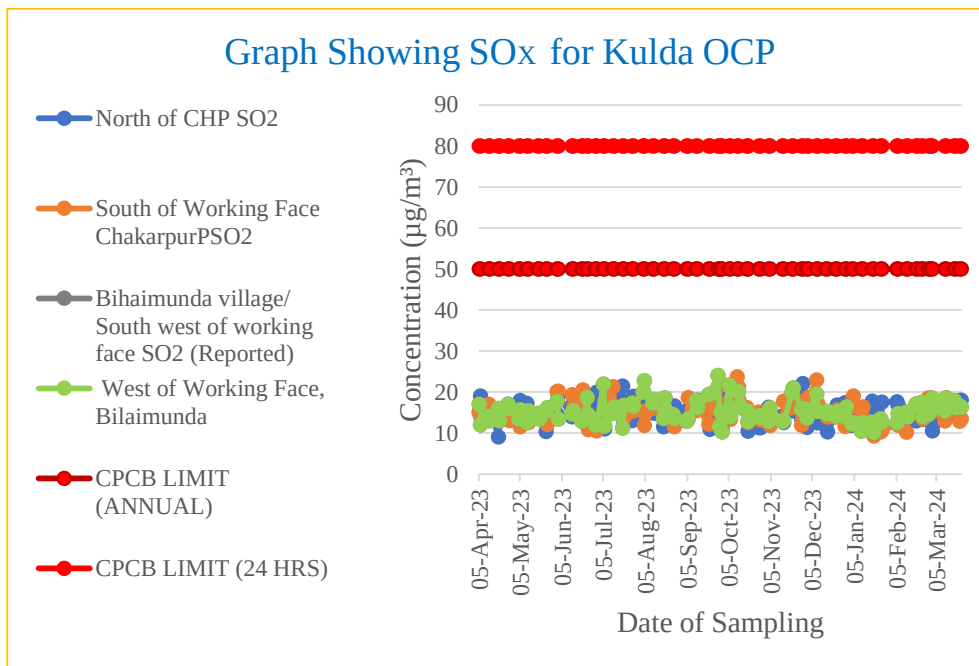
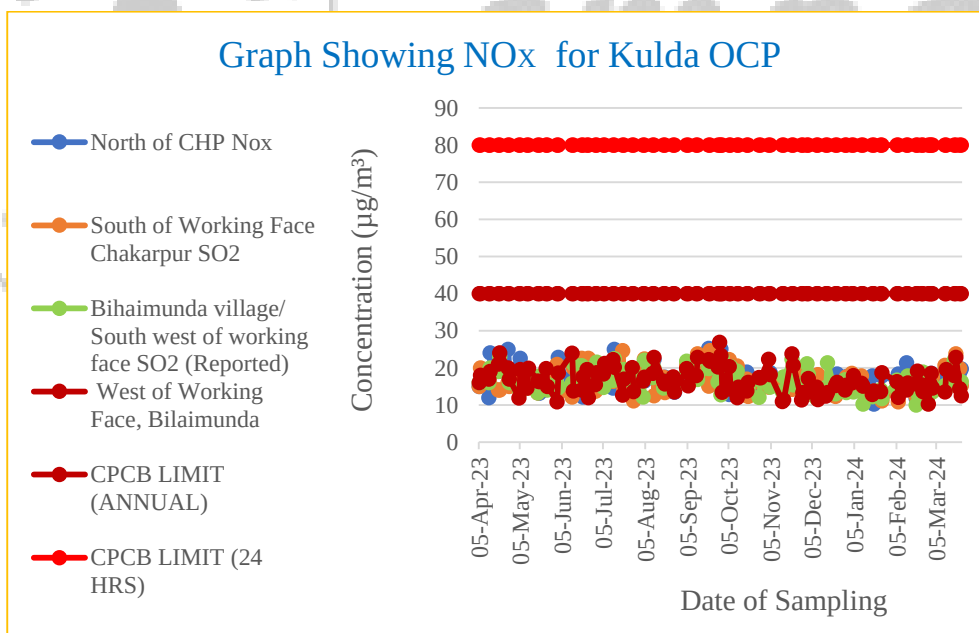


Table:28





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Table: 26

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** Karlikachar villageAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	195	98	43	16.01	24.4
28-Apr-23	140	86	34	12.45	12.4
06-May-23	172	84	35	13.56	20.24
20-May-23	191	91	42	17.45	20.8
08-Jun-23	193	95	44	13.76	14.02
26-Jun-23	179	90	38	19.94	14.45
07-Jul-23	181	87	38	12.73	24.1
22-Jul-23	191	94	42	10.85	16.11
12-Aug-23	172	83	35	16.6	24.1
22-Aug-23	178	88	37	12.12	16.86
13-Sep-23	171	86	35	16.6	14.39
16-Sep-23	168	87	36	16.69	13.88
13-Oct-23	242	146	55	17.26	14.2
20-Oct-23	256	163	58	12.51	14.01
11-Nov-23	265	165	62	12.95	12.08
18-Nov-23	270	170	64	18.49	15.36
13-Dec-23	275	186	72	14.11	18.76
28-Dec-23	264	172	68	15.68	16.79
13-Jan-24	262	175	68	13.98	17.52
29-Jan-24	265	162	64	12.56	16.64
09-Feb-24	256	158	60	15.43	16.23
21-Feb-24	254	156	59	13.42	13.34
05-Mar-24	258	159	62	15.42	20.52
29-Mar-24	274	166	62	12.98	16.79
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	275	186	72	19.94	24.4
Minimum	140	83	34	10.85	12.08
Average	215.5	123.7	49.5	14.8	16.8
Standard 24 hr	500	250		120	120

Table: 27

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** Near Coal Sampling LabAll values are in $\mu\text{g}/\text{m}^3$

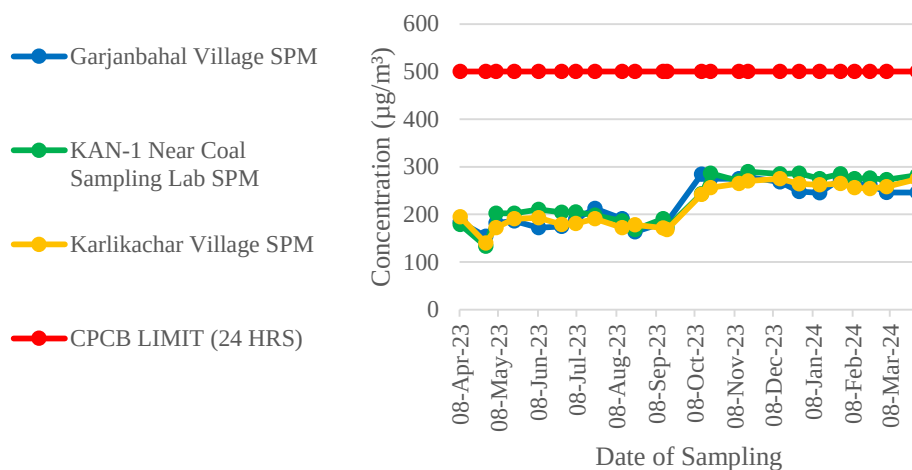
Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	179	92	37	13.32	12.41
28-Apr-23	133	95	44	14.79	20.57
06-May-23	202	95	46	12.56	15.49
20-May-23	202	95	46	13.4	19.02
08-Jun-23	210	98	50	17.56	20.88
26-Jun-23	204	97	46	17.83	10.68
07-Jul-23	205	96	47	13.78	10.7
22-Jul-23	198	95	44	13.39	13.57
12-Aug-23	186	88	40	13.3	15.7
22-Aug-23	168	83	34	16.41	17.85
13-Sep-23	191	94	42	12.98	16.79
16-Sep-23	172	86	35	18.57	16.02
13-Oct-23	243	175	71	17.14	20
20-Oct-23	286	184	75	13.24	15.86
11-Nov-23	270	84	64	13.11	17.54
18-Nov-23	290	190	74	17.36	19.11
13-Dec-23	285	195	78	19	17.65
28-Dec-23	286	184	75	18.6	19.87
13-Jan-24	275	185	74	11.25	14.25
29-Jan-24	285	188	72	11.45	13.59
09-Feb-24	275	175	68	10.81	11.03
21-Feb-24	276	176	68	13.32	16.8
05-Mar-24	273	175	66	16.54	18.45
29-Mar-24	282	172	65	15.43	21.12
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	290	195	78	19	20.88
Minimum	133	83	34	10.81	10.68
Average	228.2	129.5	55.9	14.7	16.2
Standard 24 hr	500	250		120	120

Table: 28

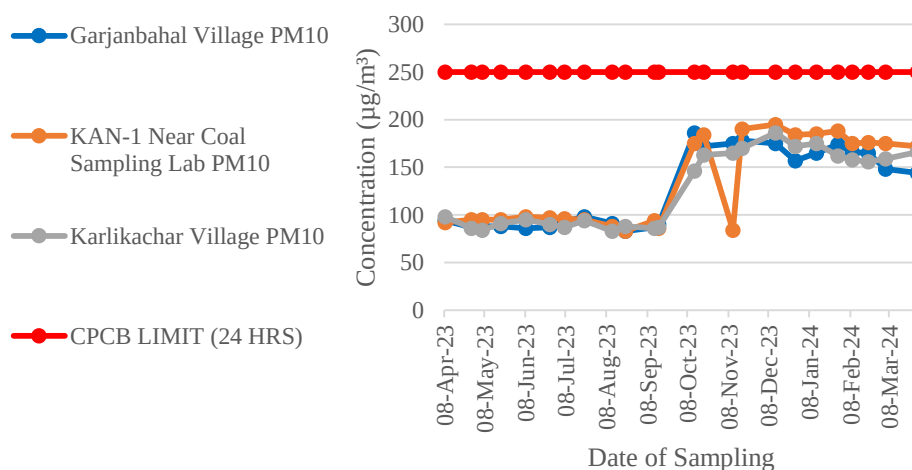
Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** Garjanbahal villageAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	184	94	39	14.59	18.12
28-Apr-23	154	87	36	15.06	23.24
06-May-23	182	88	38	15.64	17.32
20-May-23	186	88	40	11.14	13.33
08-Jun-23	172	86	35	14.32	17.66
26-Jun-23	175	87	36	12.86	22.54
07-Jul-23	190	93	42	16.17	21.68
22-Jul-23	212	98	49	13.78	16.35
12-Aug-23	191	91	42	12.13	18.21
22-Aug-23	163	83	32	14.58	13.52
13-Sep-23	182	87	39	16.32	12.51
16-Sep-23	184	90	39	19.07	15.24
13-Oct-23	284	186	76	18.32	20
20-Oct-23	275	172	68	10.84	16.1
11-Nov-23	275	175	68	16.71	15.04
18-Nov-23	278	178	68	14.44	14.24
13-Dec-23	268	175	68	12.86	15.59
28-Dec-23	248	157	61	17.19	18.32
13-Jan-24	245	165	62	12.54	15.67
29-Jan-24	274	174	68	11.59	16
09-Feb-24	264	166	63	14.13	18.35
21-Feb-24	262	165	61	16.03	14.6
05-Mar-24	246	148	56	14.56	17.56
29-Mar-24	246	144	58	13.46	21.79
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	284	186	76	19.07	23.24
Minimum	154	83	32	10.84	12.51
Average	220.4	126.6	51.4	14.6	17.0
Standard 24 hr	500	250		120	120

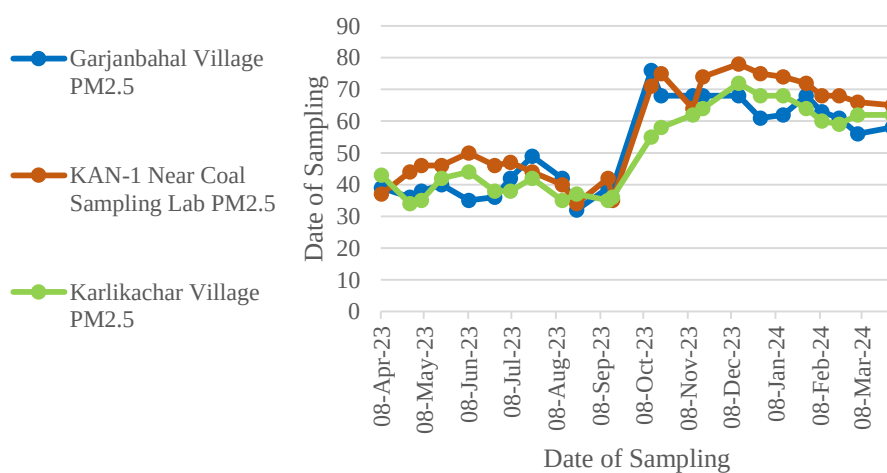
Graph Showing SPM for Garjanbahal OCP



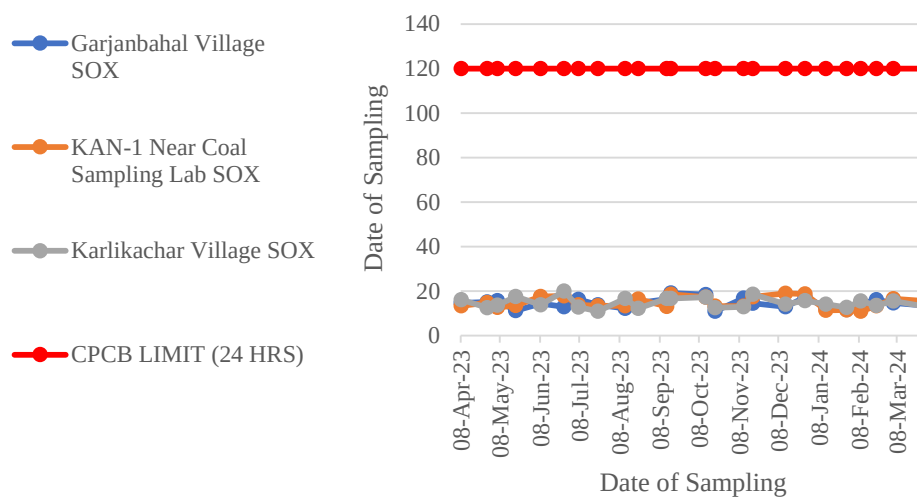
Graph Showing PM10 for Garjanbahal OCP



Graph Showing PM2.5 for Garjanbahal OCP



Graph Showing SOX for Garjanbahal OCP



Graph Showing NOX for Garjanbahal OCP

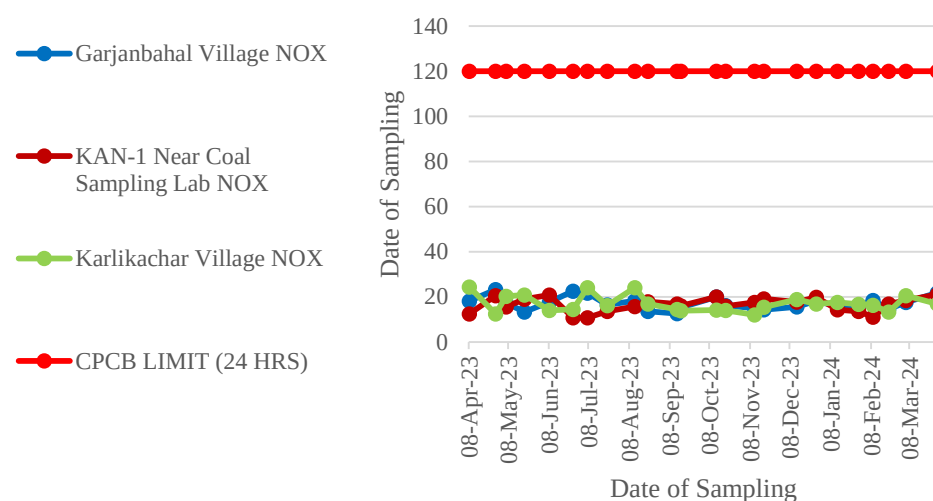


Table: 29

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** Bihaimunda village/ South west of working faceAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	162	82	30	17	16
06-Apr-23	155	75	28	15	16
12-Apr-23	149	72	26	14	16
13-Apr-23	157	78	29	16	20
19-Apr-23	141	62	21	17	19
20-Apr-23	143	63	23	12	23
26-Apr-23	146	67	25	15	19
27-Apr-23	153	72	27	12	16
04-May-23	150	67	26	15.55	14.57
05-May-23	155	73	28	12.54	13.56
10-May-23	141	62	23	12.56	16.58
11-May-23	150	69	26	15.65	18.32
18-May-23	144	63	24	13.13	13.28
19-May-23	163	79	30	15.15	17.76
24-May-23	147	66	25	13.95	15.73
25-May-23	156	74	28	17.57	14.01
01-Jun-23	161	81	30	13.1	15.67
02-Jun-23	149	68	26	15.71	14.62
12-Jun-23	164	83	32	21.9	15.85
13-Jun-23	168	85	34	17.4	21.12
19-Jun-23	148	69	26	18.95	20.58
20-Jun-23	165	82	32	14.06	16.82
23-Jun-23	162	79	30	10.36	19.68
24-Jun-23	156	74	28	12.66	15.14
29-Jun-23	144	63	24	12.11	17.53
30-Jun-23	152	74	27	12.29	21.54
05-Jul-23	151	69	26	17.89	14.73
06-Jul-23	155	73	28	20.17	15.55
12-Jul-23	146	66	25	15.48	16.61
13-Jul-23	150	68	26	17.84	22.47
19-Jul-23	168	86	34	13.15	17.9
20-Jul-23	162	93	31	19.44	19.56
26-Jul-23	157	77	29	10.9	16.11
27-Jul-23	154	73	27	13.68	18.13
03-Aug-23	152	71	27	15.01	12.13
04-Aug-23	144	63	24	11.99	22.1
10-Aug-23	162	79	30	16.04	17.44
11-Aug-23	145	66	25	12.09	19.88
18-Aug-23	156	74	28	11.52	14.58
19-Aug-23	143	63	24	13.98	16.45
25-Aug-23	137	60	21	11.52	16.35
26-Aug-23	140	63	23	13.85	14.77

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04-Sep-23	145	65	25	13.46	21.79
05-Sep-23	153	75	28	15.43	21.12
11-Sep-23	151	72	27	16.64	22.05
12-Sep-23	157	79	29	12.48	16.91
20-Sep-23	150	68	26	16.37	19.79
21-Sep-23	157	78	29	21.42	22.09
27-Sep-23	144	63	24	24.36	16.16
28-Sep-23	161	81	30	9.69	17.34
29-Sep-23	164	84	32	22.42	12.75
30-Sep-23	146	67	25	14.25	22.68
05-Oct-23	172	88	34	17.46	16.25
06-Oct-23	162	82	30	23.51	20.37
11-Oct-23	157	78	28	16.57	19.16
12-Oct-23	155	76	27	20.99	14.2
18-Oct-23	155	73	27	12.5	16.11
19-Oct-23	166	85	33	14.3	14.76
27-Oct-23	182	90	38	10.87	12.03
28-Oct-23	165	83	31	12.58	16.66
03-Nov-23	186	86	35	10.1	17.57
04-Nov-23	180	83	32	13.03	14.78
13-Nov-23	195	91	39	10.61	13.63
14-Nov-23	182	88	34	13.12	17.55
20-Nov-23	180	86	35	14.8	22.32
21-Nov-23	176	84	33	15.93	15.45
27-Nov-23	188	90	38	17.82	15.54
28-Nov-23	196	93	42	11.69	12.49
01-Dec-23	195	94	42	17.65	21.08
02-Dec-23	180	84	35	17.34	18.36
08-Dec-23	192	92	39	14.44	11.82
09-Dec-23	170	79	30	11.92	14.13
15-Dec-23	184	85	36	11.76	14.75
16-Dec-23	183	89	36	11.69	21.36
22-Dec-23	195	93	41	11.35	12.98
23-Dec-23	183	87	35	14.38	15.66
29-Dec-23	168	83	31	17.95	16.78
30-Dec-23	158	74	26	13.61	13.36
03-Jan-24	192	93	39	13.87	16.87
04-Jan-24	153	74	27	10.58	13.54
10-Jan-24	165	84	32	10.24	13.52
11-Jan-24	170	86	34	13.17	10.25
18-Jan-24	156	76	28	13.14	12.22
19-Jan-24	150	72	26	13.68	13.04
24-Jan-24	168	86	34	11.69	14.14
25-Jan-24	184	90	38	12.35	11.73
05-Feb-24	172	86	34	10.18	16.69
06-Feb-24	192	93	39	11.48	12.88
12-Feb-24	165	84	32	16.36	16.45
13-Feb-24	174	88	35	10.15	17.82
19-Feb-24	180	89	36	16.84	10.02
20-Feb-24	174	85	33	11.86	13.72
23-Feb-24	194	93	39	14.32	16.8
24-Feb-24	205	96	43	15.28	18.91
28-Feb-24	168	83	31	15.55	12.56
29-Feb-24	180	88	35	12.7	14.08

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01-Mar-24	166	79	29	11.32	15.54
02-Mar-24	190	86	38	12.52	13.52
11-Mar-24	188	78	36	13.56	15.24
12-Mar-24	198	95	42	18.57	14.58
18-Mar-24	208	93	40	16.64	22.05
19-Mar-24	190	87	38	12.48	16.91
22-Mar-24	167	78	29	13.11	14.77
23-Mar-24	186	91	35	18.11	16.25
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	208	96	43	24.36	23
Minimum	137	60	21	9.69	10.02
Average	165.1	78.9	30.8	14.5	16.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 30

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** South-East of Wokring Face, Kutabaga VillageAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	151	72	26	12	21
06-Apr-23	143	66	24	14	15
12-Apr-23	154	74	27	19	19
13-Apr-23	137	62	22	12	12
19-Apr-23	144	65	24	15	14
20-Apr-23	157	77	29	14	18
26-Apr-23	151	70	26	12	18
27-Apr-23	164	83	32	9	19
04-May-23	138	60	22	12.51	18.98
05-May-23	146	66	25	12.66	16.52
10-May-23	161	74	30	15.69	17.54
11-May-23	137	62	32	12.28	13.85
18-May-23	162	80	30	16.47	12.07
19-May-23	143	63	24	10.97	14.22
24-May-23	138	61	22	15.03	16.9
25-May-23	150	68	26	13.04	18.2
01-Jun-23	155	74	28	24.32	22.56
02-Jun-23	138	60	22	23.06	22.26
12-Jun-23	163	80	31	18.43	14.63
13-Jun-23	149	67	26	16	11.15
19-Jun-23	157	76	29	13.48	17.65
20-Jun-23	148	68	26	14.05	18.57
23-Jun-23	141	62	23	18.12	16.86
24-Jun-23	162	78	30	19.31	16.6
29-Jun-23	146	66	25	21.72	17.57
30-Jun-23	142	62	23	10.93	13.56
05-Jul-23	158	78	29	18.33	26.61
06-Jul-23	144	63	24	12.07	18.13
12-Jul-23	162	81	30	16.3	19.23
13-Jul-23	168	85	34	14.33	11.58
19-Jul-23	149	70	26	11.11	17.95
20-Jul-23	155	75	28	12.12	14.38
26-Jul-23	161	81	30	16.18	15.04
27-Jul-23	143	67	24	13.15	12.53
03-Aug-23	156	74	28	18.94	22.94
04-Aug-23	161	79	30	23	16.4
10-Aug-23	143	63	24	12.22	19.23
11-Aug-23	138	61	22	12.12	14.89
18-Aug-23	146	67	25	14.12	15.58
19-Aug-23	153	72	27	17.58	19.54
25-Aug-23	143	65	24	16.58	13.12
26-Aug-23	157	77	29	16.55	17.58

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04-Sep-23	137	62	21	13.11	14.77
05-Sep-23	149	69	26	18.11	16.25
11-Sep-23	165	85	33	14.98	23.84
12-Sep-23	140	61	22	16.05	16.94
20-Sep-23	155	74	28	21.16	16.79
21-Sep-23	143	68	24	17.05	18.33
27-Sep-23	162	80	30	19.08	19.82
28-Sep-23	157	76	29	20.75	14.6
29-Sep-23	151	71	27	23.19	16.77
30-Sep-23	163	80	32	26.25	13.91
05-Oct-23	162	82	29	17.5	16
06-Oct-23	165	85	32	14.45	22.25
11-Oct-23	152	79	28	16.6	20.74
12-Oct-23	166	85	33	17.99	16.87
18-Oct-23	170	87	34	16.58	17.58
19-Oct-23	168	86	33	11.12	14.52
27-Oct-23	186	92	38	15.28	18.59
28-Oct-23	165	84	32	13.45	19.46
03-Nov-23	178	83	32	16.52	19.67
04-Nov-23	204	93	42	14.96	14.14
13-Nov-23	198	88	40	11.53	14.7
14-Nov-23	166	76	28	10.13	17.66
20-Nov-23	179	86	35	15.51	19.97
21-Nov-23	190	92	39	14.89	17.27
27-Nov-23	170	82	30	12.25	16.66
28-Nov-23	175	84	33	12.19	18.51
01-Dec-23	188	90	38	13.16	15.48
02-Dec-23	165	78	29	18.56	13.24
08-Dec-23	162	75	27	12.4	12.78
09-Dec-23	178	86	34	11.76	13.27
15-Dec-23	175	86	33	14.48	17.78
16-Dec-23	195	93	40	18.4	18.41
22-Dec-23	164	76	28	15.48	17.17
23-Dec-23	189	90	38	19.51	14.8
29-Dec-23	165	74	27	15.29	14.65
30-Dec-23	168	78	29	12.38	13.36
03-Jan-24	195	92	40	14.35	17.54
04-Jan-24	184	91	38	15.87	14.12
10-Jan-24	164	80	31	12.58	14.52
11-Jan-24	172	86	34	10.58	15.25
18-Jan-24	165	84	32	11.34	13.23
19-Jan-24	162	81	30	13.07	17.79
24-Jan-24	172	82	34	14.08	14.16
25-Jan-24	184	93	38	13.48	16.94
05-Feb-24	155	76	28	10.43	20.66
06-Feb-24	165	84	33	18.98	16.16
12-Feb-24	170	86	34	15.57	13.99
13-Feb-24	195	93	41	11.92	12.35
19-Feb-24	185	90	37	12.86	10.9
20-Feb-24	162	76	28	9.99	13.08
23-Feb-24	176	85	33	13.29	13.48
24-Feb-24	190	90	38	15.85	18.55
28-Feb-24	172	86	34	46.05	16.57
29-Feb-24	197	93	39	15.44	15.39

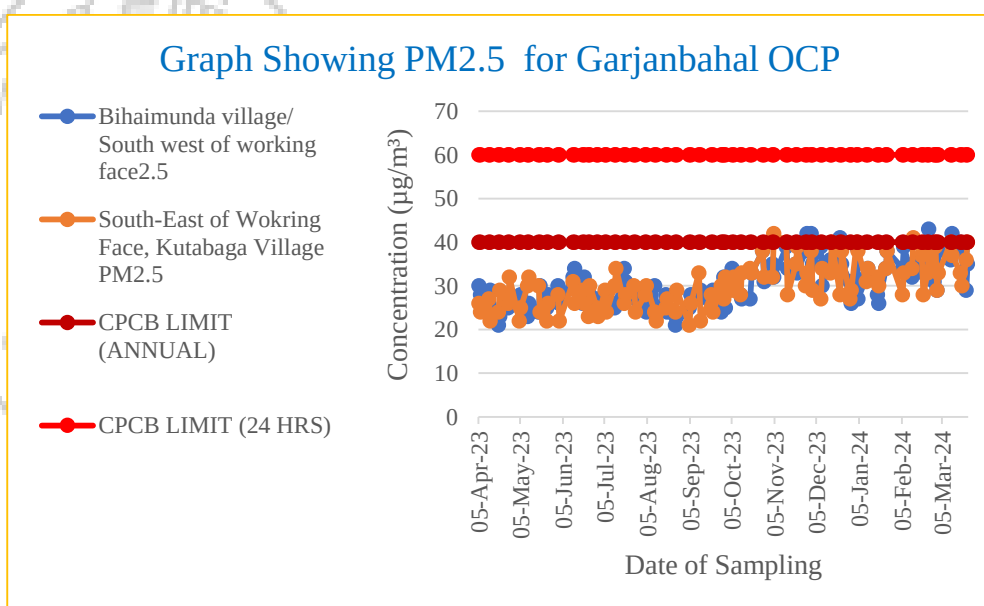
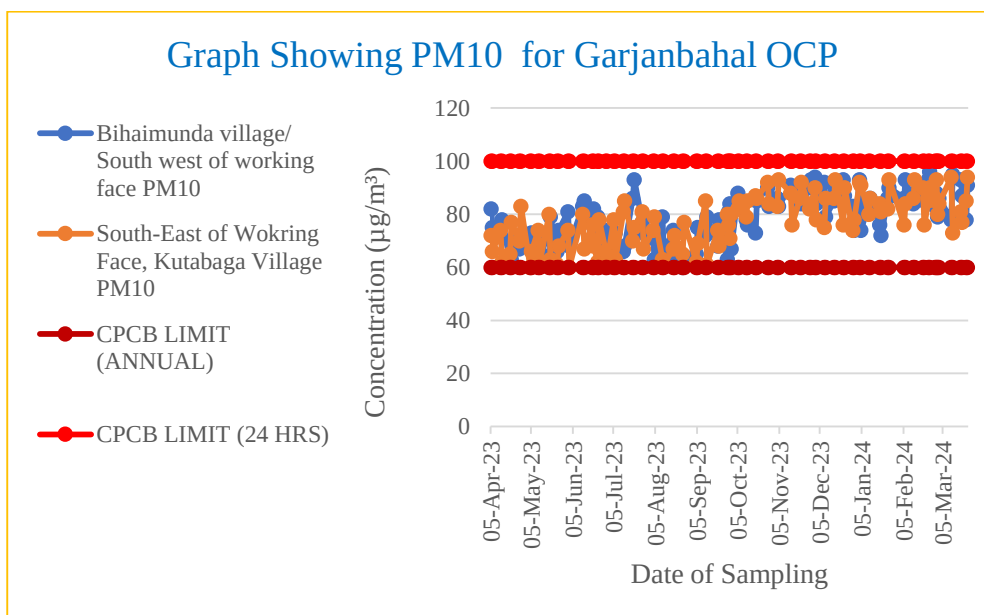
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01-Mar-24	167	80	29	16.25	15.65
02-Mar-24	176	84	33	18.45	18.57
11-Mar-24	210	94	40	13.52	16.54
12-Mar-24	185	73	37	11.52	13
18-Mar-24	174	81	33	14.98	23.84
19-Mar-24	172	77	30	16.05	16.94
22-Mar-24	258	85	36	20.28	15.87
23-Mar-24	195	94	40	11.45	21.76
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	258	94	42	46.05	26.61
Minimum	137	60	21	9	10.9
Average	164.2	77.8	30.3	15.5	16.7
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

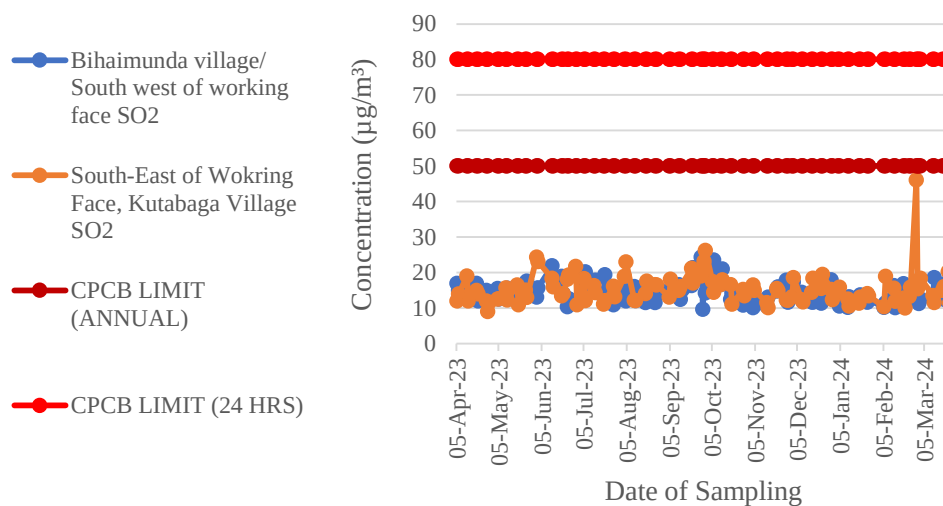


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Table:33



Graph Showing SO_x for Garjanbahal OCP



Graph Showing NO_x for Garjanbahal OCP

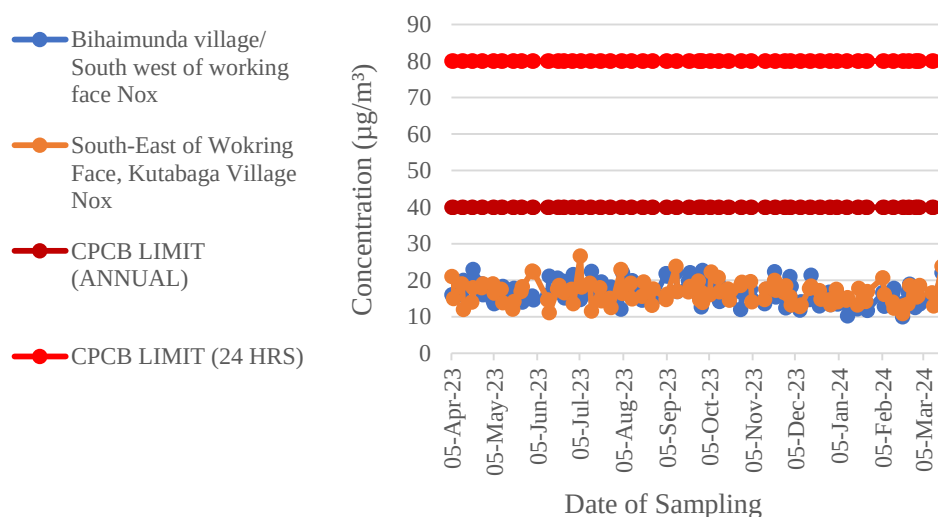


Table: 31

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** North of the Sardega Railway SidingAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	194	99	43	16.56	20.63
22-Apr-23	184	90	39	12.54	17.79
06-May-23	176	85	36	16.25	19.58
20-May-23	180	86	38	14.77	16.41
08-Jun-23	176	85	36	16.71	16.86
26-Jun-23	184	90	39	13.16	20.63
07-Jul-23	181	86	38	16	22.11
22-Jul-23	186	88	40	11.14	18.01
12-Aug-23	153	72	27	11.52	18.26
22-Aug-23	178	86	37	15.58	16.52
13-Sep-23	180	87	38	20	16.13
16-Sep-23	180	86	38	18.37	16.97
13-Oct-23	246	153	58	14.82	21.19
20-Oct-23	272	172	64	15.39	16.57
11-Nov-23	265	166	62	14.6	16.12
18-Nov-23	274	172	65	11.89	13.84
13-Dec-23	266	178	68	16.81	13.43
28-Dec-23	255	175	66	15.36	19.37
13-Jan-24	228	142	53	15.89	16.85
29-Jan-24	286	186	74	15.73	17.68
09-Feb-24	235	148	56	17.12	19.82
21-Feb-24	266	165	62	17.81	14.38
05-Mar-24	258	152	62	11.52	18.54
29-Mar-24	238	146	54	20	16.13
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	286	186	74	20	22.11
Minimum	153	72	27	11.14	13.43
Average	215.7	122.6	49.0	15.4	17.7
Standard 24 hr	500	250		120	120

Table: 32

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** South West of Working Face
Gopalpur Village, Near CMPDI CampAll values are in $\mu\text{g}/\text{m}^3$

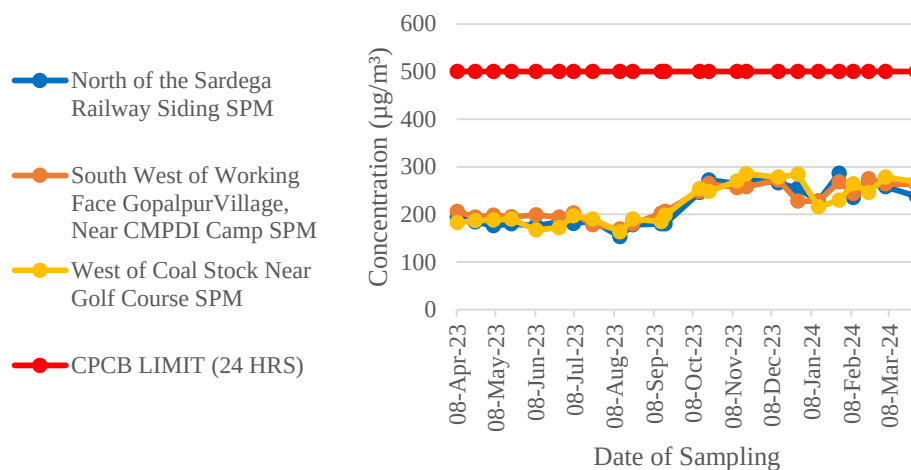
Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
08-Apr-23	206	98	47	17.04	17.9
22-Apr-23	194	95	44	13.56	22.07
06-May-23	198	94	45	14.52	19.56
20-May-23	195	93	44	14.84	14.65
08-Jun-23	199	96	48	22.43	17.19
26-Jun-23	194	92	43	18.93	15.03
07-Jul-23	203	97	46	12.78	14.92
22-Jul-23	178	86	37	21.21	15.01
12-Aug-23	169	83	34	13.25	15.63
22-Aug-23	180	87	38	13.56	14.58
13-Sep-23	202	93	45	13.11	19.37
16-Sep-23	206	97	46	22.5	21.86
13-Oct-23	248	148	59	15.34	19.04
20-Oct-23	265	168	62	14.91	17.52
11-Nov-23	256	159	58	15.26	14.73
18-Nov-23	258	156	58	16.05	15.57
13-Dec-23	272	182	70	12.92	10.58
28-Dec-23	228	136	51	17.32	18.32
13-Jan-24	228	140	52	10.32	13.52
23-Jan-24	268	172	65	15.85	15.86
09-Feb-24	244	154	58	11.85	11.57
21-Feb-24	275	172	64	16.9	17.83
05-Mar-24	264	156	61	11.52	15.24
29-Mar-24	263	142	56	13.11	19.37
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	275	182	70	22.5	22.07
Minimum	169	83	34	10.32	10.58
Average	221.2	122.6	50.6	15.7	16.5
Standard 24 hr	500	250		120	120

Table: 33

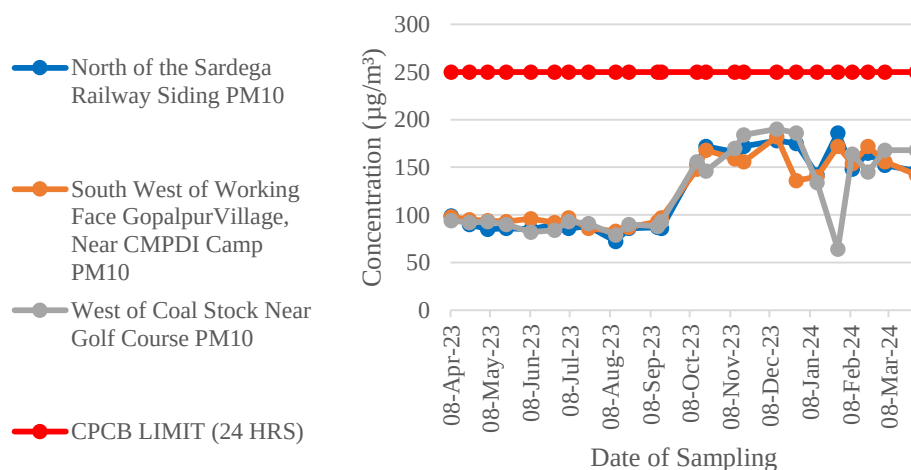
Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** West of Coal Stock Near Golf CourseAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	183	94	39	13.12	21.39
22-Apr-23	187	92	40	14.78	14.85
06-May-23	188	93	42	15.65	13.24
20-May-23	190	90	42	17.88	17.48
08-Jun-23	167	82	33	19.6	20.27
26-Jun-23	172	84	35	18.39	22.47
07-Jul-23	197	93	44	10.88	21
23-Jul-23	190	91	42	15.83	18.32
12-Aug-23	163	79	31	11.4	15.56
22-Aug-23	190	90	41	17.58	13.56
13-Sep-23	185	88	40	13.61	15.93
16-Sep-23	198	93	44	24.34	15.9
13-Oct-23	254	156	62	14.38	18.73
20-Oct-23	248	146	53	13.94	18.66
11-Nov-23	270	170	64	11.83	17.25
18-Nov-23	285	184	72	15.26	17.54
13-Dec-23	278	190	74	11.43	12.72
28-Dec-23	284	186	75	13.25	14.39
13-Jan-24	216	134	48	13.52	17.58
29-Jan-24	230	64	53	17.86	22.44
09-Feb-24	264	164	66	12.38	10.13
21-Feb-24	246	145	54	13.98	13.92
05-Mar-24	278	168	66	10.05	15.42
29-Mar-24	268	168	62	13.61	15.93
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	285	190	75	24.34	22.47
Minimum	163	64	31	10.88	10.13
Average	217.5	118.5	49.7	15.0	17.0
Standard 24 hr	500	250		120	120

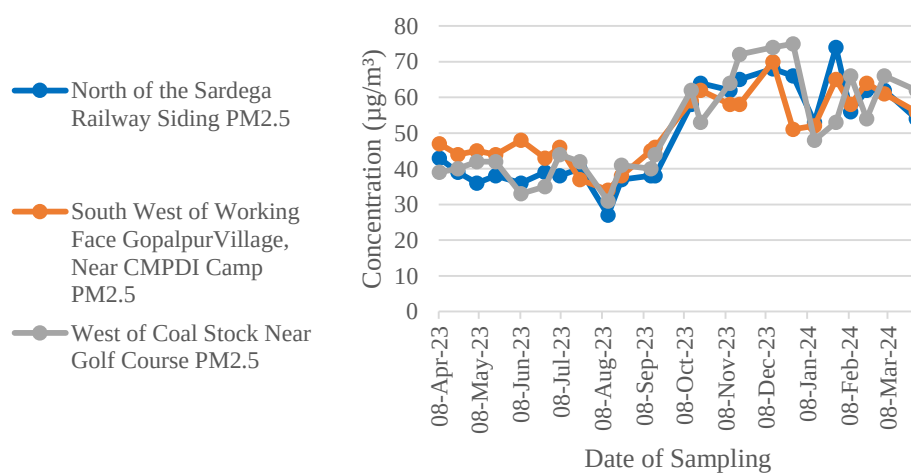
Graph Showing SPM for Bsundhara(w) OCP



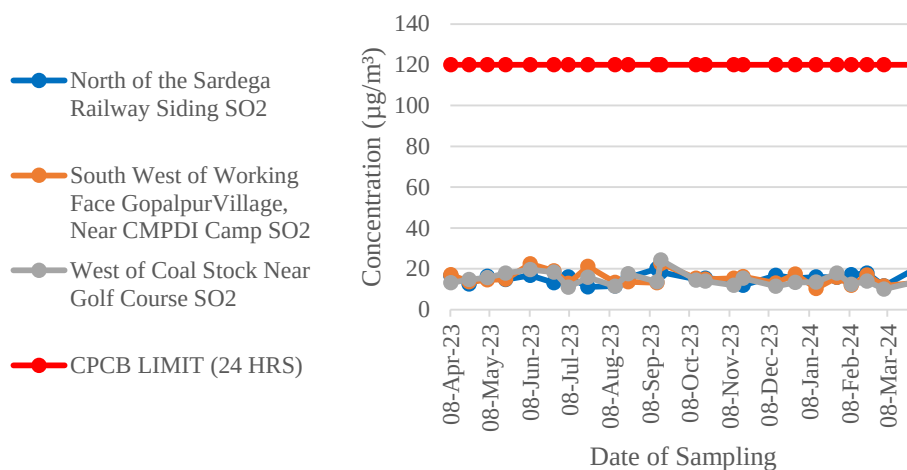
Graph Showing PM10 for Bsundhara(w) OCP



Graph Showing PM2.5 for Bsundhara(w) OCP



Graph Showing SO_x for Bsundhara(w) OCP



Graph Showing NO_x for Bsundhara(w) OCP

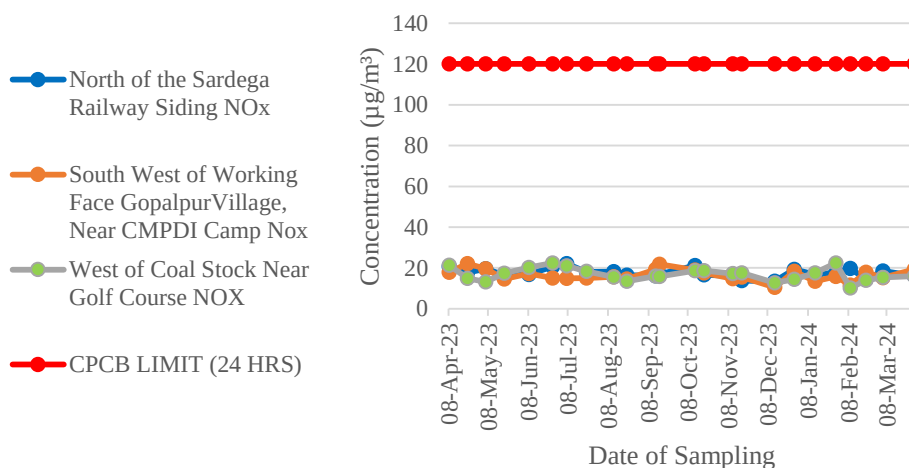


Table: 34

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** Sarangijharia Community CentreAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	156	96	28	17	22
06-Apr-23	143	66	24	14	12
12-Apr-23	154	73	27	14	14
13-Apr-23	137	63	22	17	15
19-Apr-23	150	70	26	16	19
20-Apr-23	143	64	24	17	17
26-Apr-23	153	72	27	14	13
27-Apr-23	157	76	29	17	25
04-May-23	157	76	29	11.58	18.56
05-May-23	143	64	24	12.56	14.57
10-May-23	154	70	27	11.96	15.89
11-May-23	160	79	30	18.56	12.56
18-May-23	153	72	27	18.81	19.31
19-May-23	163	79	31	15.67	14.76
24-May-23	168	83	34	13.43	13.15
25-May-23	165	80	32	14.77	15.63
29-May-23	155	74	28	14.19	16.35
30-May-23	145	65	25	15.55	12
01-Jun-23	146	66	25	19.98	16.63
02-Jun-23	162	81	30	23.39	19.5
12-Jun-23	157	77	29	20.7	17.98
13-Jun-23	162	80	31	19.14	16.42
19-Jun-23	158	76	29	13.19	17.44
20-Jun-23	166	84	33	11.68	19.89
23-Jun-23	146	65	25	16.95	20.27
24-Jun-23	163	80	31	11.04	16.83
05-Jul-23	164	84	32	21.78	24.05
06-Jul-23	155	75	28	10.37	12.82
12-Jul-23	145	66	25	11.45	16.29
13-Jul-23	162	79	30	11.95	17.08
19-Jul-23	152	72	27	11.51	10.74
20-Jul-23	163	83	31	11.17	13.31
26-Jul-23	148	68	26	16.64	18.13
27-Jul-23	155	74	28	14.34	16.13
03-Aug-23	164	80	32	19.86	17.31
04-Aug-23	156	74	28	16.47	23.81
10-Aug-23	149	65	25	17.48	19.01
11-Aug-23	143	63	24	11.38	16.23
18-Aug-23	146	67	25	17.58	14.58
19-Aug-23	156	74	28	14.58	16.89
25-Aug-23	150	68	26	11.52	17.58
26-Aug-23	162	81	30	15.52	15.74
29-Aug-23	151	71	27	17.58	19.58
30-Aug-23	149	69	26	11.52	13.56

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04-Sep-23	163	82	31	18.53	30.32
05-Sep-23	161	79	30	12.71	17.07
11-Sep-23	143	63	24	18.13	22.18
12-Sep-23	138	62	22	15.09	22.3
20-Sep-23	165	84	32	13.07	17.64
21-Sep-23	163	82	30	13.56	17.9
27-Sep-23	155	75	28	23.6	18.78
28-Sep-23	147	66	25	24.5	19.26
05-Oct-23	165	85	32	19.57	22.88
06-Oct-23	162	81	29	11.4	15.28
11-Oct-23	165	82	30	13.27	19.64
12-Oct-23	170	88	34	14.3	21.18
18-Oct-23	192	91	39	12.68	14.1
19-Oct-23	164	83	31	11.34	15.51
27-Oct-23	168	88	35	12.68	18.01
28-Oct-23	155	76	28	13.96	19.55
03-Nov-23	195	89	38	10.95	17.39
04-Nov-23	178	83	32	18.04	11.61
07-Nov-23	184	86	35	10.79	11.66
08-Nov-23	174	79	30	11.98	12.63
13-Nov-23	170	77	29	15.2	14.18
14-Nov-23	176	81	33	13.41	12.88
20-Nov-23	178	87	35	14.74	18.41
21-Nov-23	174	84	32	18.36	15.72
27-Nov-23	170	82	30	14.55	17.21
28-Nov-23	186	90	38	18.92	15.86
01-Dec-23	195	85	42	15.35	16.99
02-Dec-23	190	89	38	13.12	15.11
08-Dec-23	181	86	35	13.15	16.14
09-Dec-23	174	84	32	14.55	18.26
15-Dec-23	168	82	30	16.42	14.11
16-Dec-23	166	80	29	12.66	10.36
22-Dec-23	175	84	32	11.98	13.65
23-Dec-23	160	72	26	12.39	11.32
03-Jan-24	194	95	42	12.35	14.58
04-Jan-24	174	87	35	11.12	14.58
10-Jan-24	166	84	33	13.69	16.35
11-Jan-24	158	78	29	15.12	17.29
18-Jan-24	156	76	28	15.11	16.63
19-Jan-24	170	86	34	10.78	14.25
24-Jan-24	194	93	40	14.86	16.94
25-Jan-24	178	89	36	16.23	14.14
05-Feb-24	195	92	40	12.39	12.26
06-Feb-24	184	86	38	14.92	13.17
12-Feb-24	198	95	42	11.32	15.72
13-Feb-24	168	83	34	11.33	15.99
19-Feb-24	196	95	41	18.19	18.81
20-Feb-24	182	87	36	11.45	17.54
23-Feb-24	158	72	26	15.54	12.55
24-Feb-24	162	76	28	16.01	11.08
28-Feb-24	154	68	25	12.48	11.87
29-Feb-24	168	84	33	16.42	13.26
01-Mar-24	192	91	38	17.52	12.52
02-Mar-24	172	79	34	15.46	18.56

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11-Mar-24	165	84	32	13.56	13.52
12-Mar-24	196	95	42	15.24	17.59
18-Mar-24	190	91	38	18.53	30.32
19-Mar-24	168	80	32	12.71	17.07
22-Mar-24	170	84	32	18.13	22.18
23-Mar-24	185	95	40	15.09	22.3
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	198	96	42	24.5	30.32
Minimum	137	62	22	10.37	10.36
Average	164.9	79.2	30.9	14.9	16.7
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table35

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** Ratansara VillageAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	144	66	24	11	15
06-Apr-23	136	61	21	15	16
12-Apr-23	150	71	26	15	16
13-Apr-23	146	67	25	13	15
19-Apr-23	146	66	25	17	24
20-Apr-23	150	69	26	14	17
26-Apr-23	137	60	22	19	20
27-Apr-23	142	61	23	17	18
04-May-23	164	84	32	15.62	13.59
05-May-23	150	67	26	15.23	19.48
10-May-23	158	76	29	11.52	16.58
11-May-23	143	64	24	12.05	13.56
18-May-23	143	63	24	14.24	12.88
19-May-23	164	81	32	14.41	16.6
24-May-23	162	78	30	18.71	16.75
25-May-23	149	68	26	12.98	15.65
29-May-23	164	81	32	15.54	17.8
30-May-23	157	77	29	15.25	13.75
01-Jun-23	164	82	32	10.76	18.32
02-Jun-23	166	84	33	14.52	13.71
12-Jun-23	155	75	28	22.06	19.57
13-Jun-23	135	28	21	23.32	12.21
19-Jun-23	161	78	30	13.45	13.28
20-Jun-23	155	73	28	14.39	20.83
23-Jun-23	150	68	26	13.18	15.11
24-Jun-23	144	63	24	16.31	21.93
05-Jul-23	164	84	32	16.85	16.58
06-Jul-23	150	68	26	10.52	16.63
12-Jul-23	158	76	29	15.93	21.05
13-Jul-23	143	63	24	10.79	16.2
19-Jul-23	143	62	24	17.1	21.48
20-Jul-23	164	83	32	16.15	16.16
26-Jul-23	157	77	29	15.45	17.01
27-Jul-23	165	85	33	12.18	16.11
03-Aug-23	163	81	32	18.02	13.09
04-Aug-23	161	78	30	22.14	22.45
10-Aug-23	151	68	26	18.48	20.09
11-Aug-23	156	73	28	12.59	22.5
18-Aug-23	143	64	24	17.54	18.54
19-Aug-23	153	72	27	17.58	14.56
25-Aug-23	158	76	29	12.52	16.58
26-Aug-23	138	61	22	11.56	14.12
29-Aug-23	146	66	25	15.47	16.58
30-Aug-23	150	69	26	11.58	14.56

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04-Sep-23	152	73	27	12.42	21.85
05-Sep-23	155	75	28	16.92	23.22
11-Sep-23	163	82	31	16.67	23.79
12-Sep-23	165	84	33	14.99	22.15
20-Sep-23	160	79	30	13.25	18.73
21-Sep-23	163	84	32	11.51	23.28
27-Sep-23	149	68	26	13.79	17.83
28-Sep-23	158	76	29	11.53	21.78
05-Oct-23	162	84	31	17.83	19.19
06-Oct-23	162	79	29	14.8	23.81
11-Oct-23	168	85	33	19.7	23.13
12-Oct-23	175	88	36	13.23	20.48
18-Oct-23	153	73	27	11.89	16.16
19-Oct-23	163	82	30	15.58	17.99
27-Oct-23	186	90	38	12.61	17.25
28-Oct-23	174	87	35	13.8	16.27
03-Nov-23	192	88	37	19.38	18.43
04-Nov-23	196	90	40	13.06	12.7
07-Nov-23	176	83	31	13.49	18.95
08-Nov-23	186	86	35	13.6	15.05
13-Nov-23	198	91	41	15.19	13.86
14-Nov-23	166	75	28	16.9	10.53
20-Nov-23	177	85	33	14.93	20.25
21-Nov-23	172	82	31	14.63	14.19
27-Nov-23	188	91	39	17.05	14.17
28-Nov-23	185	90	38	14.7	11.82
01-Dec-23	184	88	36	18.56	19.48
02-Dec-23	176	82	33	18.73	20.93
08-Dec-23	185	89	37	14.92	16
09-Dec-23	183	87	36	12.07	15.29
15-Dec-23	188	91	38	10.36	10.29
16-Dec-23	170	68	30	11.14	14.59
22-Dec-23	178	86	35	15.75	17.36
23-Dec-23	166	78	29	14.79	16.32
03-Jan-24	167	85	33	13.52	14.58
04-Jan-24	194	92	40	12.52	18.52
10-Jan-24	175	86	35	11.56	13.26
11-Jan-24	154	74	27	12.87	13.56
18-Jan-24	158	78	29	10.74	12.53
19-Jan-24	168	86	34	14.12	17.39
24-Jan-24	162	81	30	15.28	12.39
25-Jan-24	157	76	28	14.89	25.71
05-Feb-24	164	84	32	13.89	13.26
06-Feb-24	176	84	36	16.07	10.83
12-Feb-24	184	91	38	13.05	13.76
13-Feb-24	164	84	32	14.32	13.43
19-Feb-24	185	84	37	12.34	10.2
20-Feb-24	195	92	39	16.14	14.37
23-Feb-24	182	88	36	14.23	15.5
24-Feb-24	170	84	32	13.85	16.89
28-Feb-24	167	81	30	16.15	13.55
29-Feb-24	165	83	31	11.92	12.56
01-Mar-24	174	86	33	10.52	14.52
02-Mar-24	197	88	41	15.24	18.54

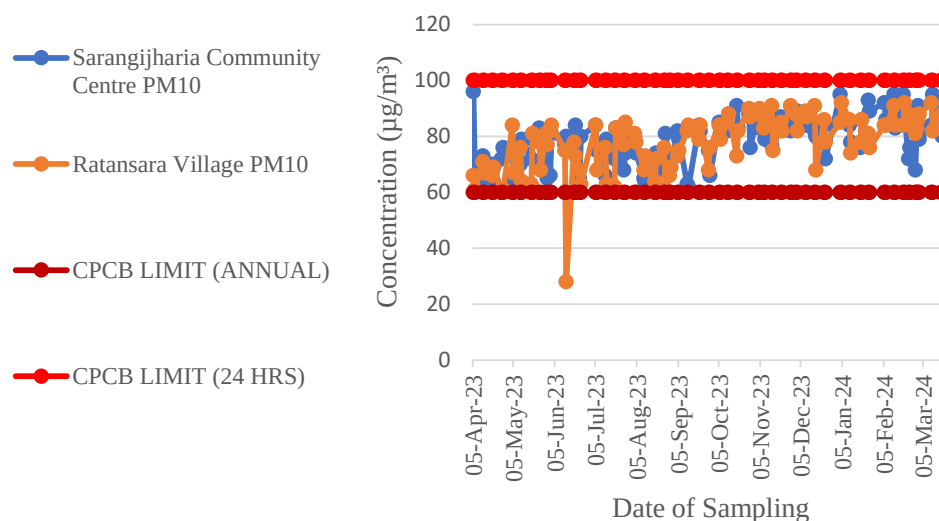
**PREPARED BY: CENTRAL MINE PLANNING & DESIGN
INSTITUTE LTD., RI VII, BHUBANESWAR**

11-Mar-24	194	92	40	15.24	13.52
12-Mar-24	174	82	30	11.52	18.54
18-Mar-24	172	86	33	12.42	21.85
19-Mar-24	195	88	41	16.92	23.22
22-Mar-24	188	92	39	16.67	23.79
23-Mar-24	156	75	28	14.99	22.15
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	198	92	41	23.32	25.71
Minimum	135	28	21	10.36	10.2
Average	164.5	78.3	30.8	14.7	17.0
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

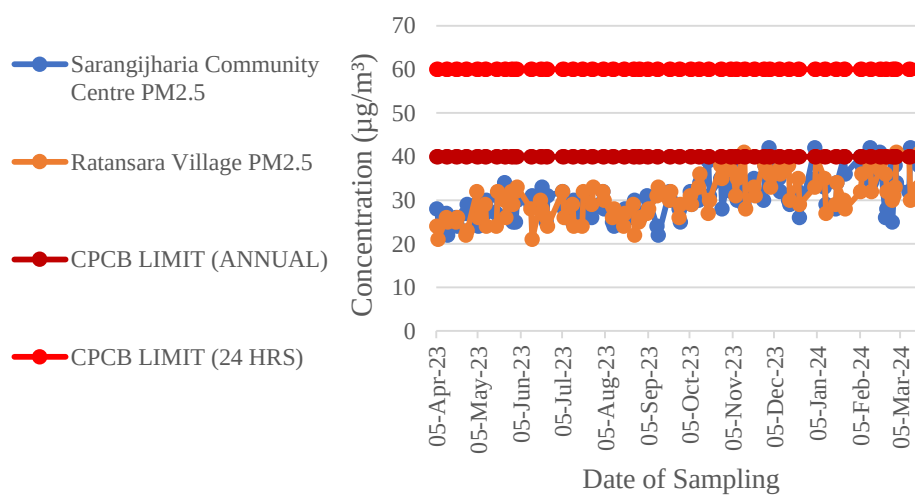


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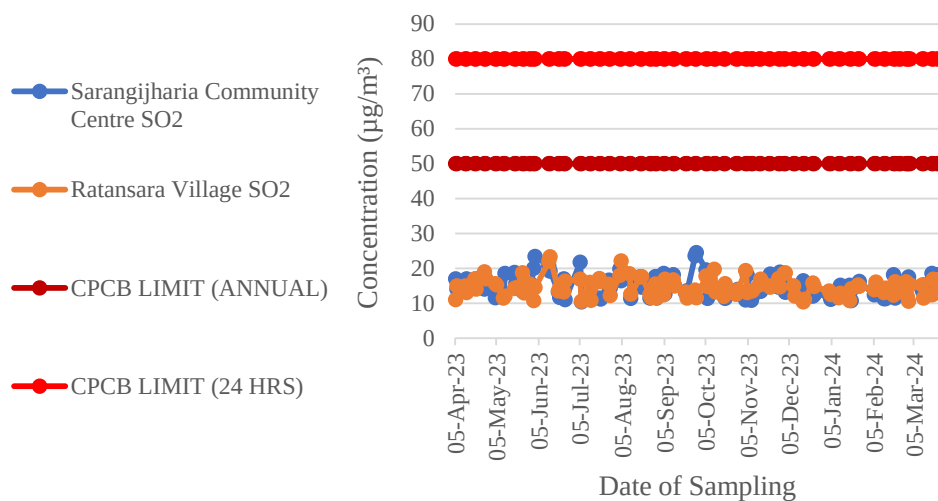
Graph Showing PM10 for Basundhara OCP



Graph Showing PM2.5 for Basundhara OCP



Graph Showing SOX for Basundhara OCP



Graph Showing NOX for Basundhara OCP

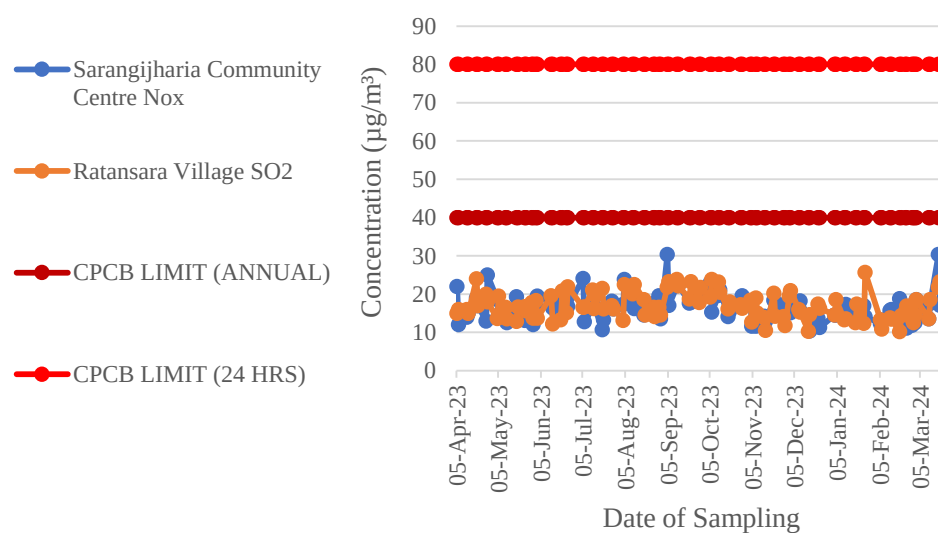
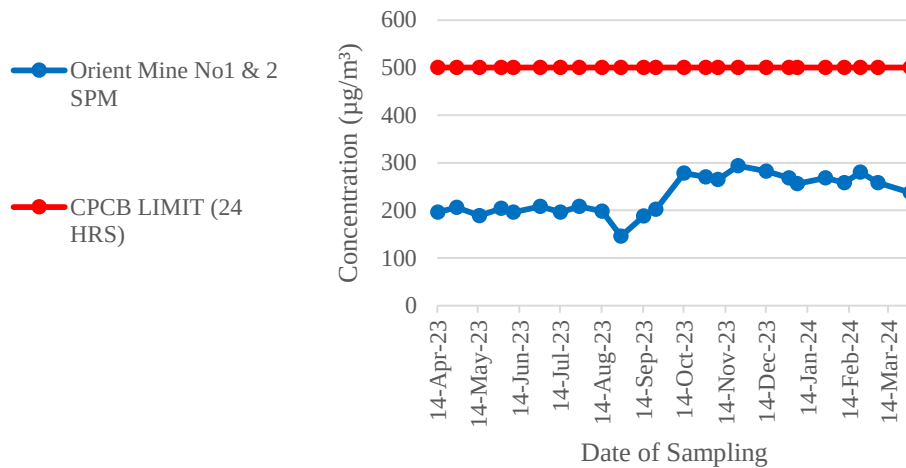


Table: 36

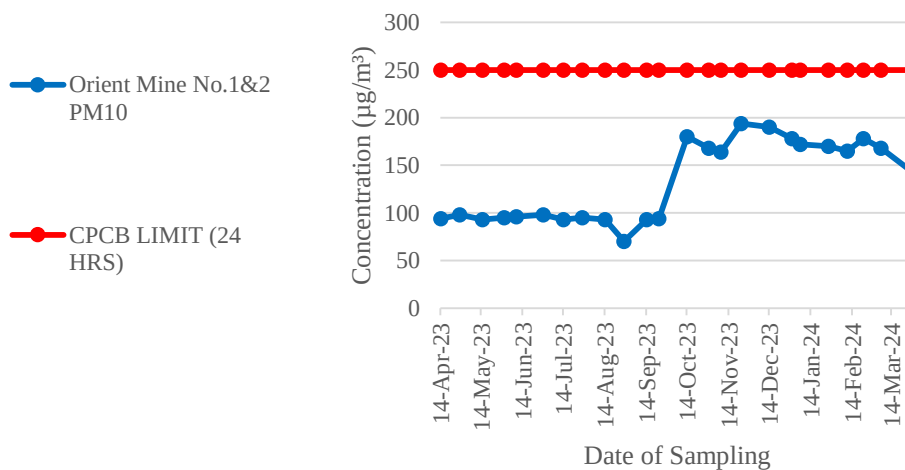
Area: Orient**Project:** Orient Mine No.1 & 2**Monitoring Station:** Orient Mine No1 & 2All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	196	94	45	13.13	19.5
28-Apr-23	206	98	48	14.59	24.62
15-May-23	189	93	42	10.21	15.62
31-May-23	204	95	47	10.55	17
09-Jun-23	196	96	45	11.57	15.91
29-Jun-23	208	98	47	12.68	15.45
14-Jul-23	196	93	44	12.65	23.31
28-Jul-23	208	95	46	10.27	12.43
14-Aug-23	198	93	44	17.25	17.27
28-Aug-23	146	70	26	10.52	13.25
14-Sep-23	188	93	41	20.28	15.87
23-Sep-23	202	94	45	21.42	15.46
14-Oct-23	278	180	75	14.85	20.29
30-Oct-23	270	168	65	16.44	22.56
08-Nov-23	265	164	62	13.88	14.25
23-Nov-23	294	194	75	14.58	15
14-Dec-23	282	190	74	9.96	13.29
31-Dec-23	268	178	72	14.11	18.76
06-Jan-24	256	172	66	14.58	12.25
27-Jan-24	268	170	65	11.66	12.85
10-Feb-24	258	165	62	16.03	15.93
22-Feb-24	280	178	68	18.74	16.59
06-Mar-24	258	168	63	13.52	13.58
30-Mar-24	237	142	53	15.78	19.73
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	294	194	75	21.42	24.62
Minimum	146	70	26	9.96	12.25
Average	229.8	130.5	54.7	14.1	16.7
Standard 24 hr	500	250		120	120

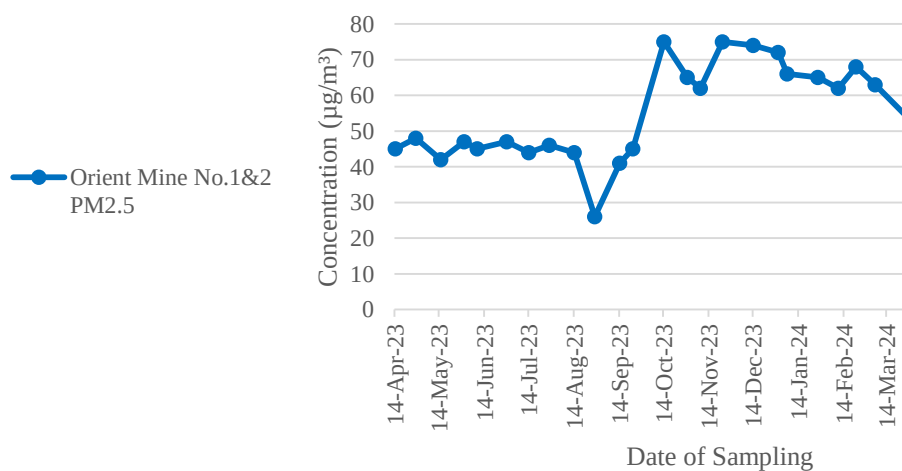
Graph Showing SPM for Orient Mine No.1&2



Graph Showing PM10 for Orient Mine No.1&2



Graph Showing PM2.5 for Orient Mine No.1&2



Graph Showing SOX for Orient Mine No.1&2

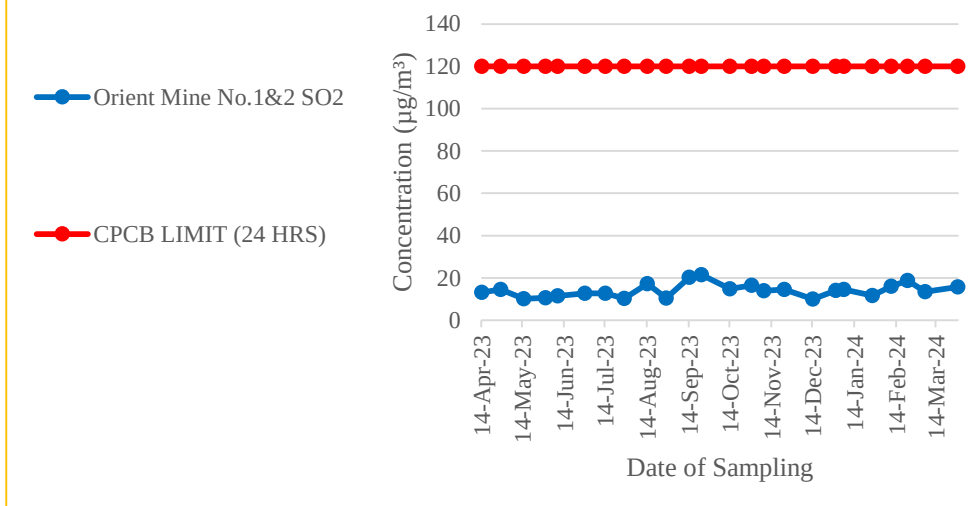


Table:38

Graph Showing NOX for Orient Mine No.1&2

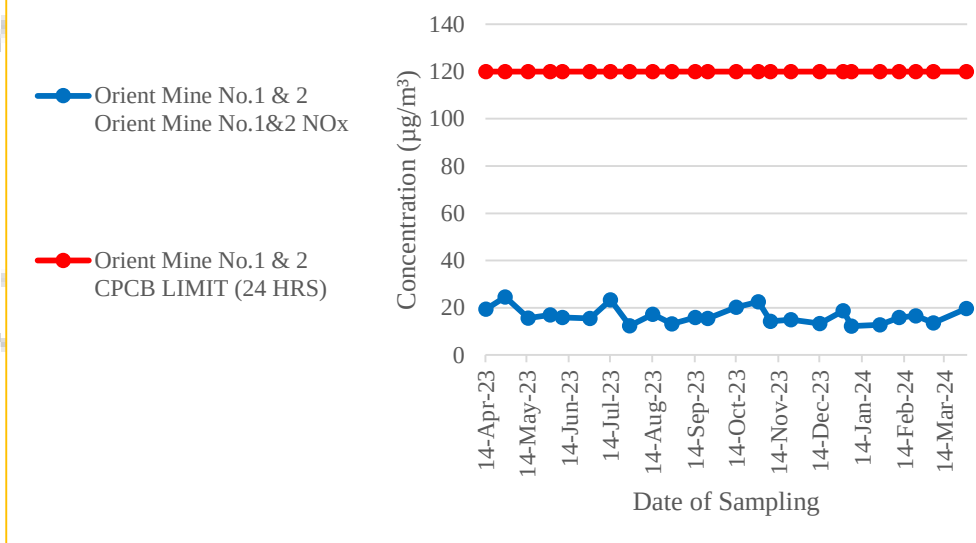


Table: 37

Area: Orient**Project:** Orient Mine No.1 & 2**Monitoring Station:** VIP Guest House IB Valley (Reported Only)All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	150	71	26	11	13
04-Apr-23	139	62	22	13	19
10-Apr-23	135	60	20	14	19
11-Apr-23	140	64	23	15	12
17-Apr-23	164	83	32	19	22
18-Apr-23	157	77	29	13	19
24-Apr-23	135	58	20	16	18
25-Apr-23	150	69	26	16	13
02-May-23	155	73	28	15.98	18.54
03-May-23	150	65	26	14.52	16.87
08-May-23	135	56	20	12.5	17.58
09-May-23	141	60	23	11.54	14.98
16-May-23	162	78	30	17.74	18.22
17-May-23	165	82	32	14.24	13.13
22-May-23	141	61	23	17.69	12.51
23-May-23	144	63	24	15.76	16.67
05-Jun-23	152	70	27	13.03	20.67
06-Jun-23	145	65	25	15.25	21.26
14-Jun-23	136	58	21	16.39	18.04
15-Jun-23	165	81	32	12.34	24.45
21-Jun-23	139	61	23	12.73	15.8
22-Jun-23	136	58	21	13.09	18.94
27-Jun-23	155	72	28	14.71	12.04
28-Jun-23	158	75	29	16.29	20.63
03-Jul-23	162	79	30	14.91	12.35
04-Jul-23	150	69	26	12.32	16.27
10-Jul-23	138	60	22	23.18	15.47
11-Jul-23	156	73	28	18.91	10.46
17-Jul-23	155	73	28	13.61	20.94
18-Jul-23	150	69	26	13.39	16.96
24-Jul-23	137	58	21	14.79	20.71
25-Jul-23	154	71	27	17	17.8
29-Jul-23	146	66	25	10.54	18.17
31-Jul-23	140	61	23	11.51	12.37
01-Aug-23	161	78	30	14.91	17.76
02-Aug-23	163	82	32	12.32	13.31
07-Aug-23	139	61	23	23.18	17.79
08-Aug-23	145	68	26	18.91	13.45
16-Aug-23	163	83	32	14.48	12.52
17-Aug-23	157	77	29	11.56	16.85
23-Aug-23	137	58	21	13.55	14.58
24-Aug-23	145	69	26	17.58	15.23

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01-Sep-23	150	68	26	12.1	14.63
02-Sep-23	162	81	30	18.13	21.78
08-Sep-23	153	71	27	24.85	18.82
09-Sep-23	157	77	29	12.9	12.21
18-Sep-23	161	79	30	15.15	22.39
19-Sep-23	150	69	26	12.72	20.6
25-Sep-23	138	60	22	10.34	17.82
26-Sep-23	155	73	28	10.95	12.78
03-Oct-23	164	82	30	15.67	16.8
04-Oct-23	155	76	27	14.79	20.39
09-Oct-23	164	78	29	12.75	18.88
10-Oct-23	168	84	32	15.3	14.35
16-Oct-23	164	84	31	11.29	18.14
17-Oct-23	158	78	29	13.21	16.3
25-Oct-23	146	66	24	14.71	14.01
26-Oct-23	154	74	27	11.13	14.63
30-Oct-23	142	64	23	16.77	16.77
31-Oct-23	156	75	28	14.07	18.19
01-Nov-23	195	88	40	11.82	12.06
02-Nov-23	185	84	36	15.22	16.44
09-Nov-23	184	82	32	13.83	14.95
10-Nov-23	196	92	41	10.49	16.01
16-Nov-23	172	82	31	15.91	15.08
17-Nov-23	166	78	29	13.01	15.4
24-Nov-23	176	85	34	17.89	16.57
25-Nov-23	162	74	27	16.79	11.11
04-Dec-23	176	82	33	12.73	10.03
05-Dec-23	166	79	29	14.41	10.32
11-Dec-23	178	86	34	15.9	11.96
12-Dec-23	183	88	36	11.59	18.18
18-Dec-23	185	88	36	12.73	14.32
19-Dec-23	176	82	33	14.41	12.82
26-Dec-23	164	76	28	13.24	14.65
27-Dec-23	202	94	43	12.38	17.32
01-Jan-24	176	84	36	13.52	16.58
02-Jan-24	190	90	38	15.58	17.88
08-Jan-24	174	82	32	13.56	19.58
09-Jan-24	160	80	30	11.23	14.52
16-Jan-24	150	69	25	14.75	22.69
17-Jan-24	162	78	29	14.49	18.35
22-Jan-24	166	62	32	10.64	14.9
23-Jan-24	175	88	36	18.91	19.8
30-Jan-24	155	76	28	13.98	16.73
31-Jan-24	161	81	30	10.48	11.26
01-Feb-24	158	75	28	19.31	12.15
02-Feb-24	165	84	32	11.49	14.05
07-Feb-24	186	90	38	13.78	17.42
08-Feb-24	168	85	34	15.01	15.61
16-Feb-24	182	84	36	19.66	11.98
17-Feb-24	202	96	44	14.32	14.87
26-Feb-24	194	88	40	16.01	16.36
27-Feb-24	170	82	34	14.5	12.19
07-Mar-24	185	90	37	12.52	13.56
08-Mar-24	182	82	35	11.52	18.56

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14-Mar-24	170	79	31	13.56	15.64
15-Mar-24	194	90	39	11.85	13.56
20-Mar-24	195	90	40	14.91	12.35
21-Mar-24	189	77	31	12.32	16.27
27-Mar-24	176	79	33	13.56	15.47
28-Mar-24	192	90	39	12.22	10.46
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	202	96	44	24.85	24.45
Minimum	135	56	20	10.34	10.03
Average	161.6	75.6	29.5	14.4	16.1
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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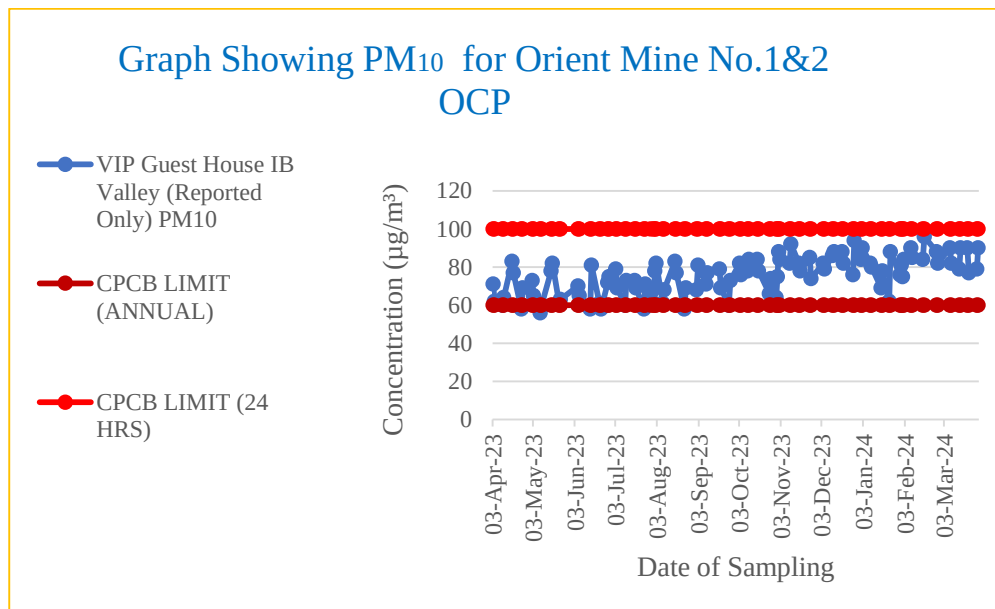
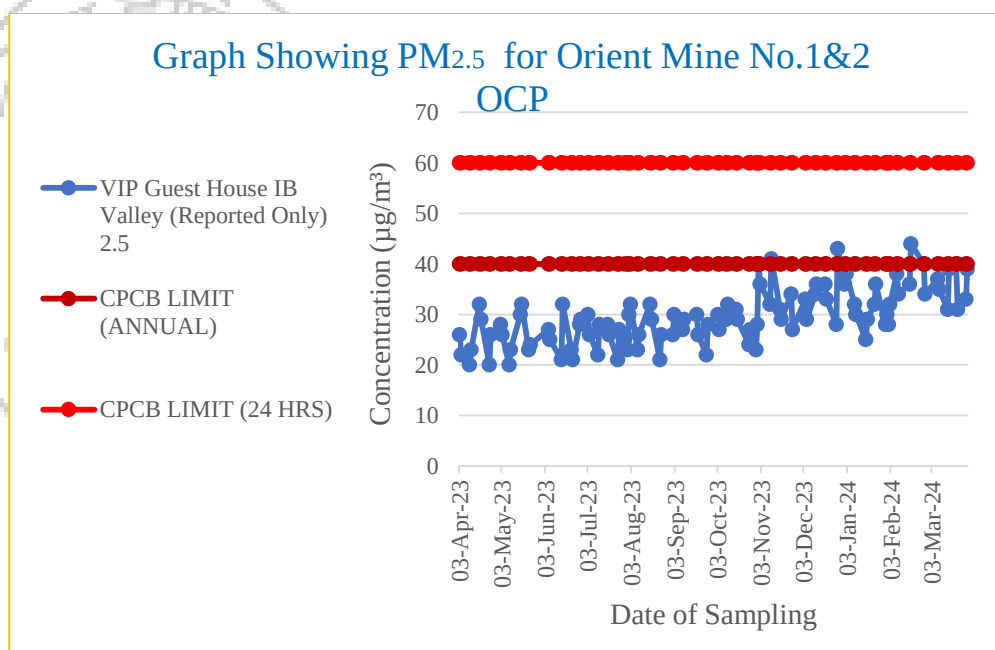
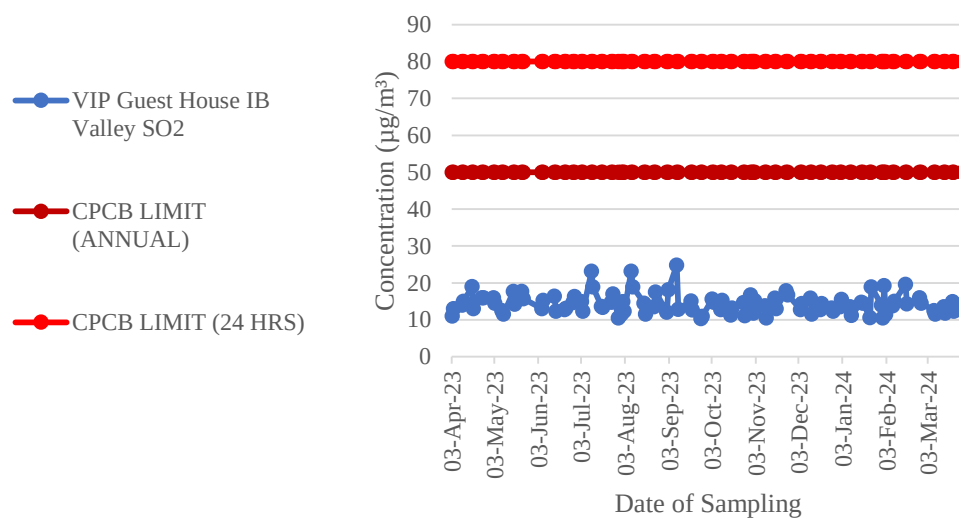


Table:39



Graph Showing SO_x for Orient Mine No.1&2 OCP



Graph Showing NO_x for Orient Mine No.1&2 OCP

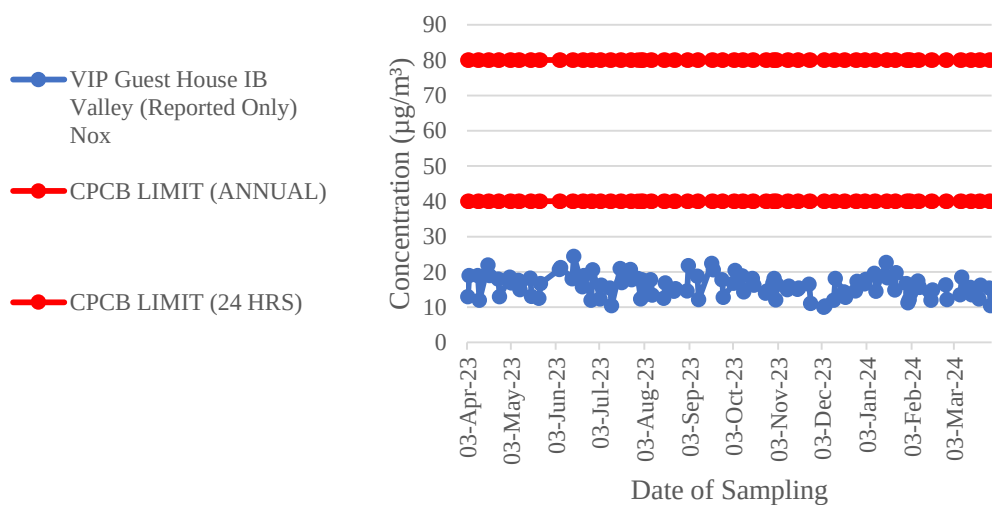
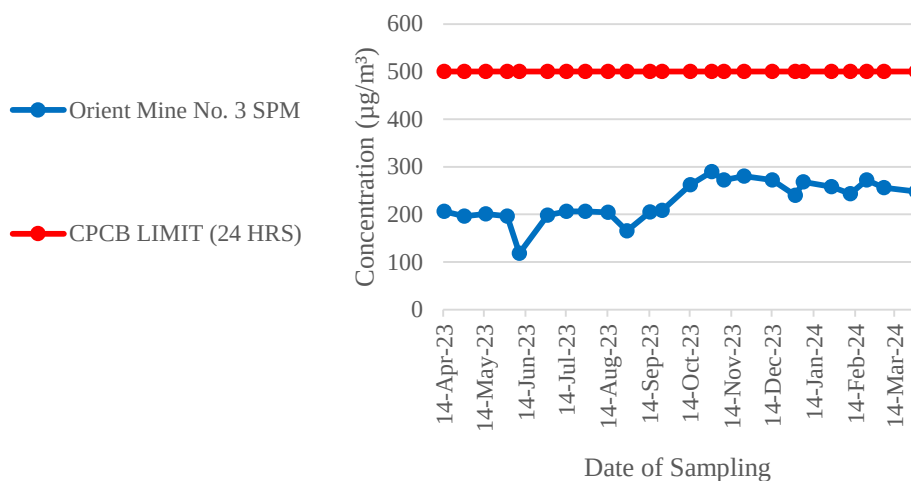


Table: 38

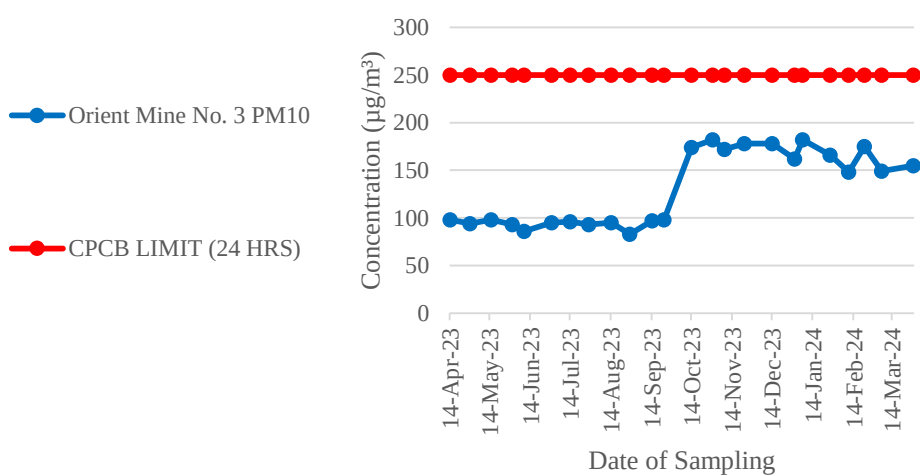
Area: Orient**Project:** Orient Mine No. 3**Monitoring Station:** Orient Mine No. 3All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	206	98	48	12.61	16.98
29-Apr-23	196	94	44	14.02	22.97
15-May-23	201	98	46	10.88	16.58
31-May-23	196	93	45	11.47	17.34
09-Jun-23	118	86	35	14.65	21.21
30-Jun-23	198	95	44	12.65	18.31
14-Jul-23	206	96	48	16.1	17.5
28-Jul-23	206	93	44	13.7	13.01
14-Aug-23	204	95	46	12.21	20
28-Aug-23	165	83	32	14.87	16.58
14-Sep-23	205	97	46	11.45	21.76
23-Sep-23	208	98	47	21.25	19.15
14-Oct-23	262	174	73	21.15	24.67
30-Oct-23	290	182	74	11.28	16.47
08-Nov-23	272	172	66	11.83	15.2
23-Nov-23	280	178	68	14.61	15.45
14-Dec-23	272	178	68	14.7	16.3
31-Dec-23	240	162	62	17.38	18.71
06-Jan-24	268	182	72	16.25	18.22
27-Jan-24	258	166	62	12.91	15.61
10-Feb-24	243	148	55	19.58	14.7
22-Feb-24	272	175	64	18.13	16.52
06-Mar-24	256	149	58	16.58	15.74
30-Mar-24	248	155	59	12.35	14.45
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	290	182	74	21.25	24.67
Minimum	118	83	32	10.88	13.01
Average	225.7	129.2	54.0	14.7	17.9
Standard 24 hr	500	250		120	120

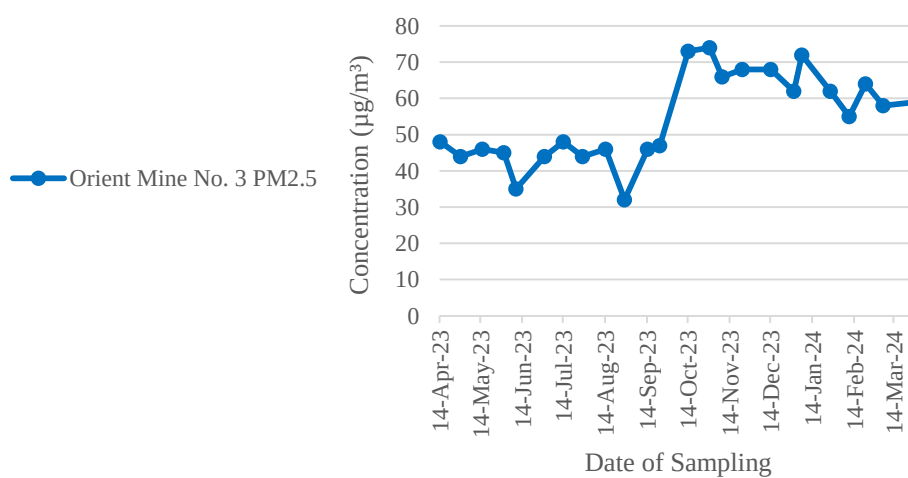
Graph Showing SPM for Orient Mine No.3



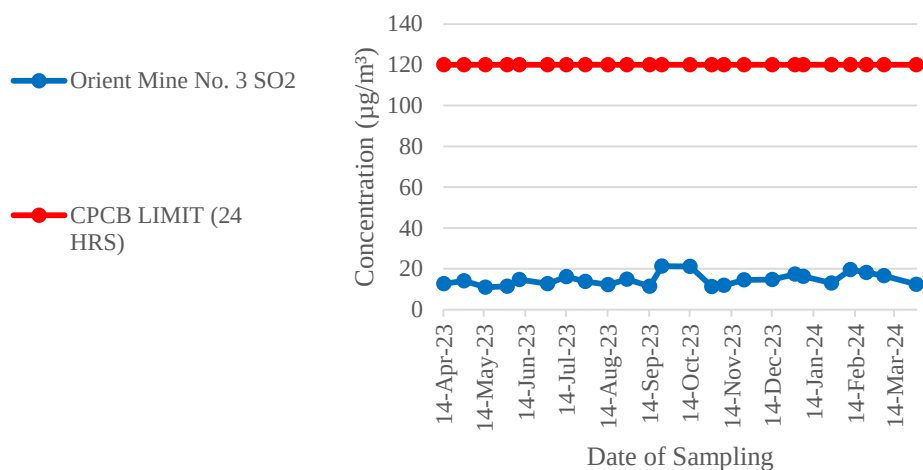
Graph Showing PM10 for Orient Mine No.3



Graph Showing PM2.5 for Orient Mine No.3



Graph Showing SOX for Orient Mine No.3



Graph Showing NOX for Orient Mine No.3

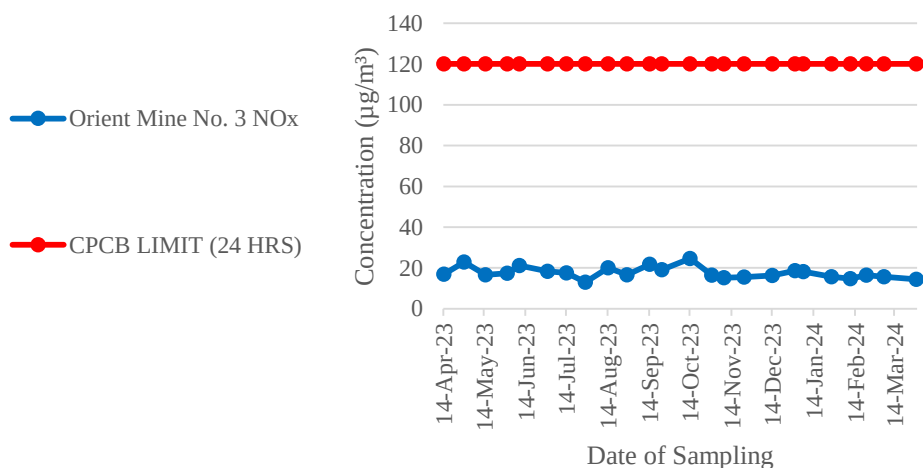


Table: 39

Area: Orient**Project:** Orient Mine No. 4**Monitoring Station:** Orient Mine No. 4All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	210	99	48	17.12	13.91
29-Apr-23	198	95	46	17.75	14.81
15-May-23	206	98	49	13.56	18.54
31-May-23	212	98	52	15.21	19.02
09-Jun-23	196	96	45	18.66	14.81
29-Jun-23	195	92	43	15.33	17.57
14-Jul-23	212	99	52	14	11.68
28-Jul-23	208	96	47	14.17	14.6
14-Aug-23	205	94	46	14.58	10.9
28-Aug-23	205	96	45	11.52	16.85
14-Sep-23	208	98	46	15.37	17.04
22-Sep-23	206	98	46	12.56	15.03
07-Oct-23	262	162	66	18.76	17.92
31-Oct-23	276	170	67	12.47	19.69
08-Nov-23	280	178	70	13.28	15.07
23-Nov-23	286	184	74	17.85	15.43
14-Dec-23	290	178	78	13.01	16.57
31-Dec-23	278	178	73	17.87	19.84
06-Jan-24	286	193	76	13.52	17.54
27-Jan-24	274	175	66	13.58	16.87
10-Feb-24	265	158	64	13.87	12.68
22-Feb-24	270	166	64	19.61	12.99
06-Mar-24	259	170	65	11.56	13.58
30-Mar-24	276	158	61	10.23	12.89
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	290	193	78	19.61	19.84
Minimum	195	92	43	11.52	10.9
Average	237.6	131.9	57.4	15.2	15.9
Standard 24 hr	500	250		120	120

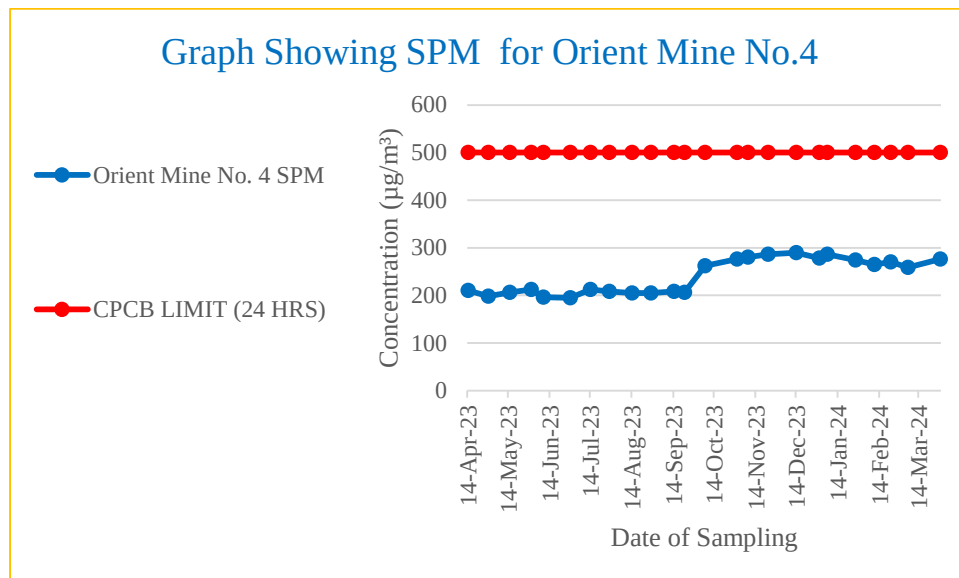
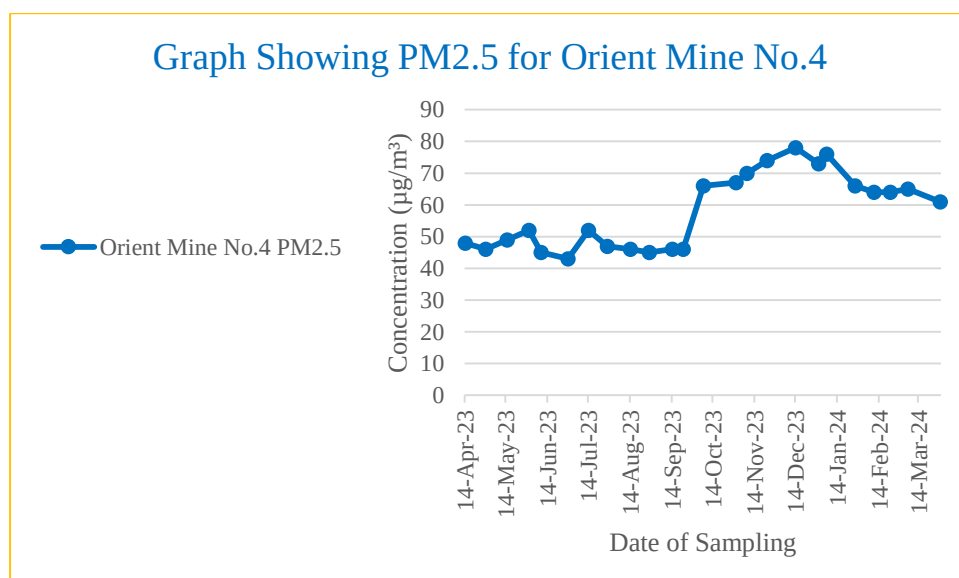
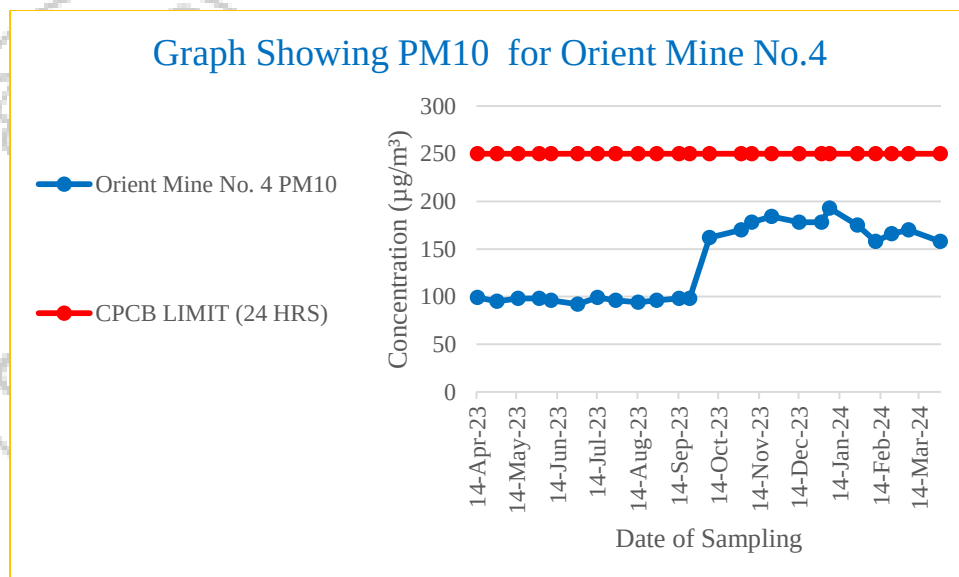
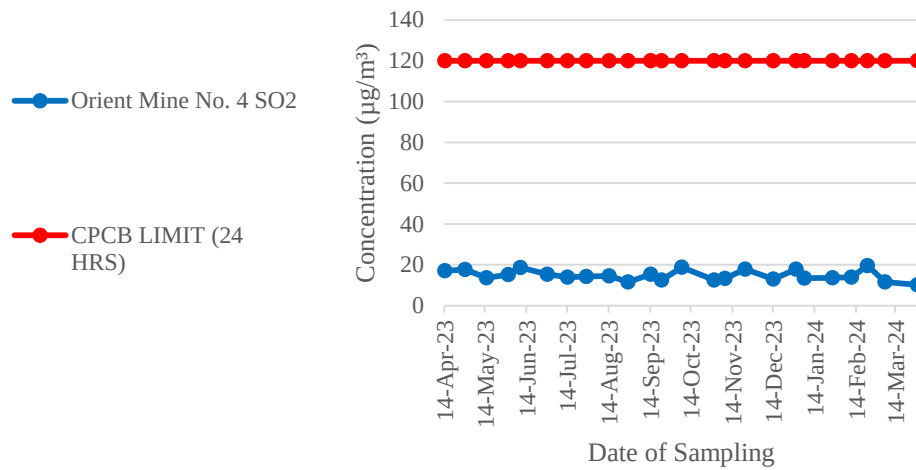


Table:42



Graph Showing SOX for Orient Mine No.4



Graph Showing NOX for Orient Mine No.4

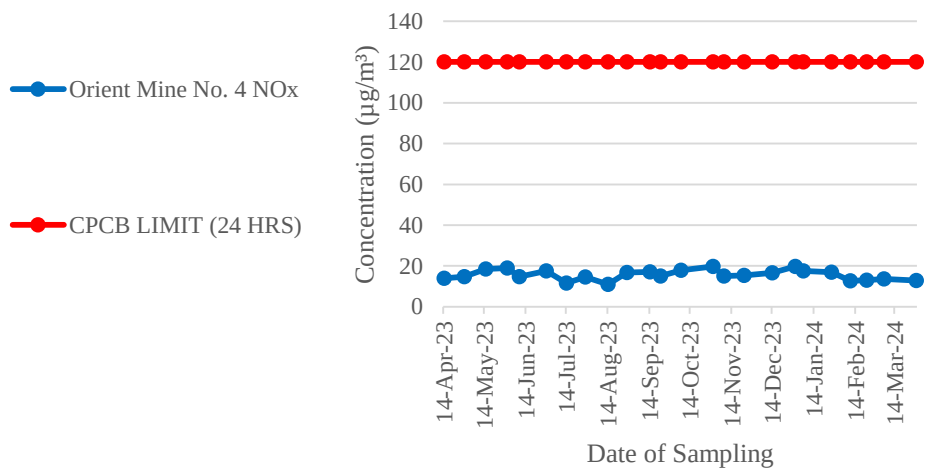


Table: 40

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** Bundia Colony Pump HouseAll values are in $\mu\text{g}/\text{m}^3$

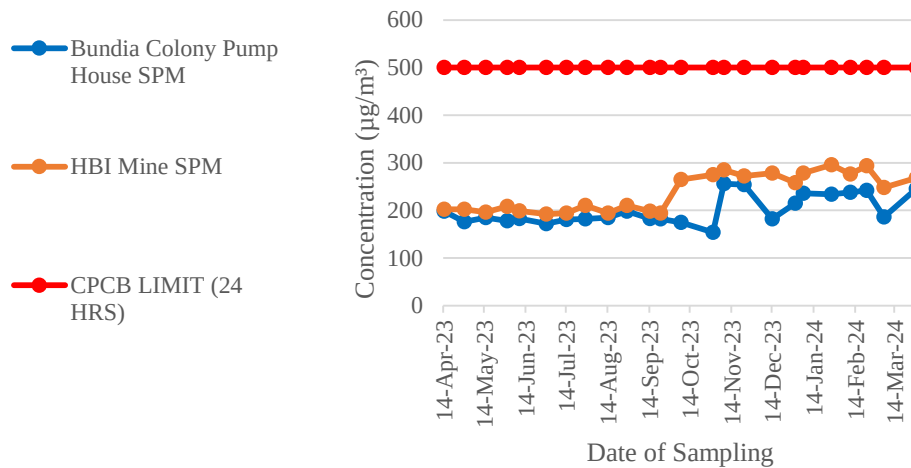
Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	198	93	38	11.2	19.86
29-Apr-23	176	87	36	12.25	16.89
15-May-23	185	90	39	15.88	17.56
31-May-23	178	87	38	11.44	14.08
09-Jun-23	183	89	38	18.78	17.3
29-Jun-23	172	86	35	13.44	18.57
14-Jul-23	181	89	38	15.38	18.62
28-Jul-23	182	89	38	10.87	14.8
14-Aug-23	185	91	40	13.39	11.17
28-Aug-23	198	95	44	16.58	16.45
14-Sep-23	183	91	39	12.35	14.45
22-Sep-23	182	90	38	27.44	26.41
07-Oct-23	175	152	56	22.18	19.71
31-Oct-23	154	73	27	11.47	18.67
08-Nov-23	256	166	58	12.27	12.62
23-Nov-23	254	154	56	13.4	14.14
14-Dec-23	182	84	35	11.55	13.41
31-Dec-23	215	125	48	17.65	18.48
06-Jan-24	236	154	58	12.52	12.52
27-Jan-24	234	142	56	13.33	11.45
10-Feb-24	238	142	54	12.98	11.72
22-Feb-24	242	146	53	14.4	20.37
06-Mar-24	186	91	37	15.57	16.58
30-Mar-24	245	144	58	14.79	23.55
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	256	166	58	27.44	26.41
Minimum	154	73	27	10.87	11.17
Average	199.5	109.8	43.7	14.6	16.3
Standard 24 hr	500	250		120	120

Table: 41

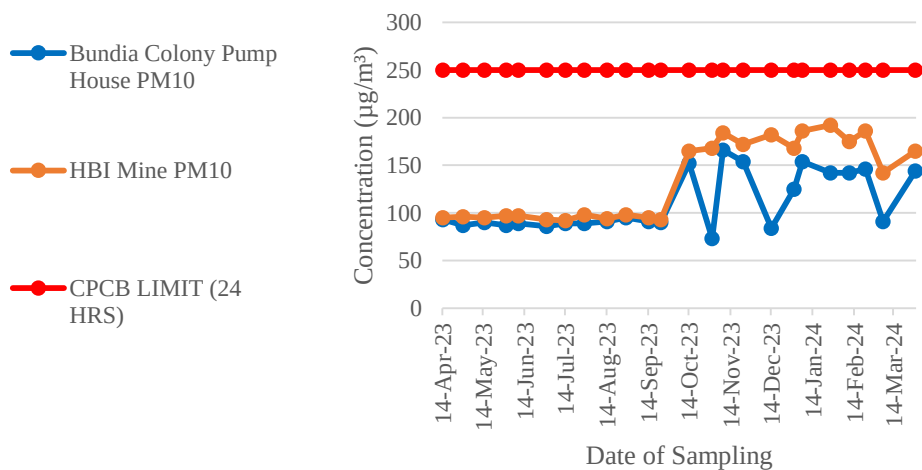
Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** HBI MineAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	202	95	46	19.7	20.52
29-Apr-23	202	96	47	11.99	15.53
15-May-23	196	95	44	17.58	21.52
31-May-23	208	97	49	12.55	14.07
09-Jun-23	199	97	46	15.05	11.62
30-Jun-23	192	93	43	13.94	19.34
14-Jul-23	194	92	43	11.07	18.2
28-Jul-23	210	98	48	11.88	13.86
14-Aug-23	194	94	43	15.81	14.24
28-Aug-23	210	98	47	13.58	19.87
14-Sep-23	198	95	44	15.78	19.73
23-Sep-23	194	93	43	17.38	20.37
14-Oct-23	265	165	68	14.27	23.67
31-Oct-23	275	168	67	10.66	17.84
08-Nov-23	285	184	72	10.03	11.47
23-Nov-23	272	172	64	15.74	12.19
14-Dec-23	278	182	72	14.69	16.27
31-Dec-23	258	168	66	18.87	19.25
06-Jan-24	278	186	75	14.52	13.25
27-Jan-24	296	192	75	20.42	17.86
10-Feb-24	276	175	66	16.19	15.67
22-Feb-24	294	186	72	13.93	14.86
06-Mar-24	248	142	55	13.52	15.52
30-Mar-24	268	165	62	14.56	19.92
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	296	192	75	20.42	23.67
Minimum	192	92	43	10.03	11.47
Average	235.3	132.8	56.4	14.8	16.9
Standard 24 hr	500	250		120	120

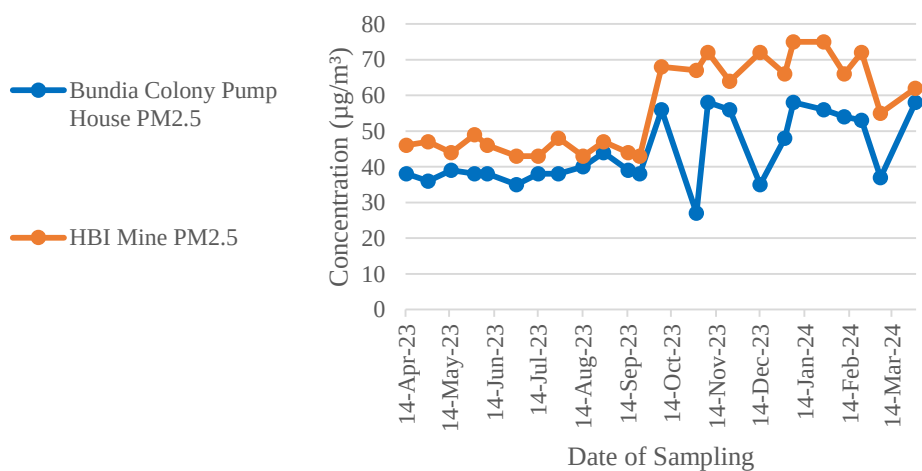
Graph Showing SPM for HBM Mine No.3



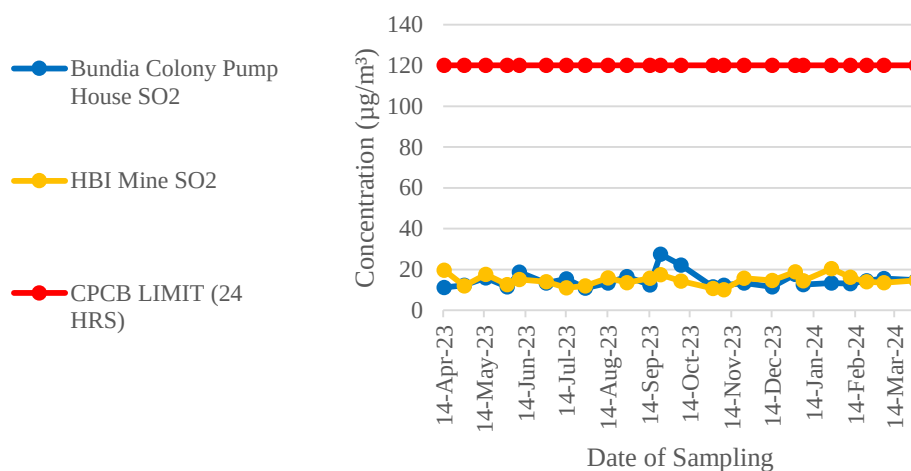
Graph Showing PM10 for HBM Mine



Graph Showing PM2.5 for HBM



Graph Showing SOX for HBM



Graph Showing NOX for HBM

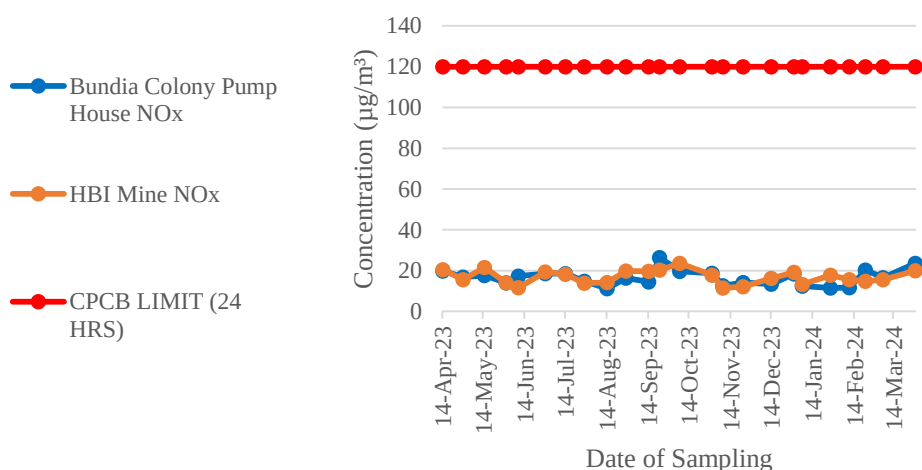


Table: 42

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** Rampur Sub AreaAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	150	70	26	13	20
04-Apr-23	137	63	22	12	15
10-Apr-23	155	76	28	10	11
11-Apr-23	163	82	30	13	10
17-Apr-23	158	76	29	17	22
18-Apr-23	161	79	30	18	16
24-Apr-23	163	82	32	22	15
25-Apr-23	158	76	29	13	16
02-May-23	162	81	30	16.59	22.58
03-May-23	149	68	26	10.25	16.32
08-May-23	155	73	28	17.58	16.58
09-May-23	159	75	29	11.56	16.85
16-May-23	166	82	33	14.95	20.09
17-May-23	162	79	30	13.56	14.64
22-May-23	155	75	28	11.93	22.62
23-May-23	153	72	27	12.04	15.53
29-May-23	137	58	21	17.41	18.29
30-May-23	146	66	25	13.53	12.84
05-Jun-23	136	60	21	25.15	18.67
06-Jun-23	149	68	26	17.84	14.35
14-Jun-23	155	73	28	16.66	13.64
15-Jun-23	161	79	30	13.1	6.6
21-Jun-23	163	67	25	12.84	16.82
22-Jun-23	143	81	30	12.37	12.45
27-Jun-23	165	64	24	11.98	13
28-Jun-23	157	84	32	10.5	18.4
03-Jul-23	166	84	33	10.76	17.63
04-Jul-23	149	72	26	14.07	12.67
10-Jul-23	156	72	28	15.47	12.9
11-Jul-23	159	75	29	17.43	9.81
17-Jul-23	154	73	27	16.07	14.06
18-Jul-23	141	62	23	12.08	10.38
24-Jul-23	162	81	30	14.59	20.32
25-Jul-23	166	84	33	12.52	12.12
01-Aug-23	152	71	27	10.27	13.22
02-Aug-23	146	66	25	12.66	14.08
07-Aug-23	166	82	33	17.76	11.18
08-Aug-23	159	79	30	11.44	16.36
16-Aug-23	156	76	29	13.56	13.52
17-Aug-23	161	79	30	12.45	13.58
23-Aug-23	164	82	32	14.12	19.87
24-Aug-23	157	76	29	13.58	14.44
29-Aug-23	150	68	26	16.58	12.58
30-Aug-23	154	72	28	14.58	16.58

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01-Sep-23	151	70	26	17.94	17.05
02-Sep-23	140	61	22	18.58	22.73
08-Sep-23	162	82	30	14.26	18.44
09-Sep-23	164	84	32	11.79	14.94
18-Sep-23	146	66	25	12.63	22.22
19-Sep-23	162	51	30	17.8	21.53
25-Sep-23	164	44	32	21.5	21.94
26-Sep-23	138	35	22	19.14	21.69
03-Oct-23	138	90	34	13.46	12.26
04-Oct-23	165	85	32	21.51	11.24
09-Oct-23	155	77	27	17.86	17.06
10-Oct-23	162	83	31	19.78	17.17
16-Oct-23	169	86	34	12.86	18.46
17-Oct-23	172	88	35	11.24	16.37
25-Oct-23	156	76	28	10.26	15.49
26-Oct-23	164	84	31	13.54	18.47
01-Nov-23	182	83	34	14.76	10.63
02-Nov-23	205	73	42	17.12	15.97
09-Nov-23	194	88	38	12.47	15.2
10-Nov-23	180	85	33	15.47	19.1
16-Nov-23	183	88	36	15.3	14.62
17-Nov-23	173	84	32	17.34	16.15
24-Nov-23	171	81	30	16.17	19.25
25-Nov-23	183	88	36	14.14	21.1
29-Nov-23	178	85	34	15.07	16.28
30-Nov-23	182	87	35	17.07	12.06
04-Dec-23	178	85	34	12.65	13.37
05-Dec-23	174	82	32	17.91	16.54
11-Dec-23	171	80	30	16	16.67
12-Dec-23	168	76	28	10.37	15.57
18-Dec-23	189	91	38	13.16	15.48
19-Dec-23	205	93	44	14.28	13.24
26-Dec-23	164	76	28	12.4	13.85
27-Dec-23	175	85	33	11.76	13.27
01-Jan-24	166	86	33	12.25	14.52
02-Jan-24	152	70	26	13.54	17.52
08-Jan-24	174	88	35	10.56	11.52
09-Jan-24	165	84	32	14.52	13.52
16-Jan-24	195	92	39	14.52	12.22
17-Jan-24	169	87	34	11.52	13.57
22-Jan-24	165	84	32	12.41	15.89
23-Jan-24	173	88	35	11.52	14.98
30-Jan-24	177	90	37	11.54	12.56
31-Jan-24	162	83	30	13.56	14.44
01-Feb-24	188	87	38	10.58	13.75
02-Feb-24	168	86	33	12.27	13.95
07-Feb-24	180	89	37	13.69	15.64
08-Feb-24	161	79	29	14.57	13.31
16-Feb-24	184	92	38	15.26	15.31
17-Feb-24	164	79	29	18.14	16.31
26-Feb-24	178	58	34	21.29	14.21
27-Feb-24	184	72	36	21.24	15.07
07-Mar-24	168	84	31	12.56	18.57
08-Mar-24	187	85	38	14.58	16.52

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14-Mar-24	165	77	29	16.59	11.56
15-Mar-24	173	82	30	14.58	14.58
20-Mar-24	164	77	28	14.26	18.44
21-Mar-24	176	82	33	11.79	14.94
27-Mar-24	195	92	39	15.37	17.04
28-Mar-24	173	83	31	12.56	14.78
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	205	93	44	25.15	22.73
Minimum	136	35	21	10	6.6
Average	164.5	77.8	30.7	14.5	15.6
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 43

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** Rampur Officers Guest HouseAll values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	138	63	22	12	14
04-Apr-23	147	67	25	15	19
10-Apr-23	153	73	27	20	18
11-Apr-23	143	65	24	15	18
17-Apr-23	144	64	24	14	16
18-Apr-23	149	70	26	19	21
24-Apr-23	142	62	23	15	21
25-Apr-23	153	72	27	12	22
02-May-23	149	66	26	12.69	18.65
03-May-23	153	71	27	13.55	17.85
08-May-23	162	80	30	12.2	16.32
09-May-23	143	63	24	15.93	19.73
22-May-23	143	64	24	12.3	10.85
23-May-23	141	62	23	13.02	16.93
29-May-23	153	71	27	12.79	15.52
30-May-23	146	66	25	12.36	12.03
05-Jun-23	156	73	28	29.52	15.7
06-Jun-23	144	63	24	20.27	19.28
14-Jun-23	137	61	22	16.46	18.54
15-Jun-23	146	65	25	20.6	17.31
21-Jun-23	163	82	31	12.63	14.48
22-Jun-23	144	63	24	11.37	13.17
27-Jun-23	150	68	26	15.4	13.94
28-Jun-23	157	77	29	10.94	19.17
03-Jul-23	158	76	29	20.79	14.83
04-Jul-23	152	71	27	11.34	17.85
10-Jul-23	165	80	32	11.44	14.06
11-Jul-23	155	73	28	14.91	14.92
17-Jul-23	146	67	25	11.99	12.06
18-Jul-23	159	78	29	10.17	12.78
24-Jul-23	148	69	26	10.99	12.11
25-Jul-23	143	65	24	13.68	16.54
01-Aug-23	165	83	32	16.63	9.37
02-Aug-23	157	75	29	14.59	12.17
07-Aug-23	149	87	26	11.44	14.06
08-Aug-23	143	64	24	12.92	16.42
16-Aug-23	153	73	27	16.58	14.85
17-Aug-23	161	81	30	16.58	13.58
23-Aug-23	145	63	24	16.58	14.89
24-Aug-23	149	70	26	17.58	16.45
29-Aug-23	141	62	23	16.58	18.38
30-Aug-23	152	72	27	13.56	11.52
01-Sep-23	136	58	21	14.56	19.92
02-Sep-23	154	73	28	14.79	23.55

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08-Sep-23	144	63	24	16.08	20.37
09-Sep-23	137	87	21	20.17	20.96
18-Sep-23	157	75	29	26.36	24.65
19-Sep-23	149	99	26	22.54	16.66
25-Sep-23	144	72	24	23.04	18.12
26-Sep-23	138	63	22	25.59	16.73
03-Oct-23	162	81	30	16.92	17.89
04-Oct-23	165	84	32	14.42	17.93
09-Oct-23	159	79	29	17.32	12.82
10-Oct-23	156	77	28	19.29	12.6
16-Oct-23	176	88	36	13.61	19.61
17-Oct-23	165	85	32	15.88	20.34
25-Oct-23	162	81	30	11.2	19.64
26-Oct-23	156	73	28	15.5	22.45
01-Nov-23	210	94	43	12.74	16.94
02-Nov-23	192	84	38	10.51	11.04
09-Nov-23	186	86	35	13	10.54
10-Nov-23	189	88	36	13.92	12.16
16-Nov-23	186	90	38	14.98	19.73
17-Nov-23	174	84	32	10.16	15.91
24-Nov-23	182	88	36	14.2	19.99
25-Nov-23	176	85	33	15.39	21.03
29-Nov-23	180	87	35	12.95	13.99
30-Nov-23	168	78	29	16.08	18.48
04-Dec-23	165	78	29	10.12	15.29
05-Dec-23	184	89	36	13.72	12.75
11-Dec-23	177	86	34	13.85	12.05
12-Dec-23	174	83	32	13.15	17.36
18-Dec-23	185	88	36	16.32	17.36
19-Dec-23	168	82	30	14.44	15.65
26-Dec-23	178	86	34	11.92	14.13
27-Dec-23	194	92	40	11.76	14.75
01-Jan-24	178	86	37	16.54	17.54
02-Jan-24	176	81	34	13.52	14.58
08-Jan-24	174	74	27	14.52	18.54
09-Jan-24	192	94	40	12.25	17.58
16-Jan-24	194	92	39	12.6	17.56
17-Jan-24	178	88	37	10.94	10.59
22-Jan-24	165	85	32	16.43	16.93
23-Jan-24	196	94	40	12.56	13.52
30-Jan-24	184	86	38	11.52	16.87
31-Jan-24	175	88	36	16.85	18.56
01-Feb-24	172	86	36	11.83	13.13
02-Feb-24	158	78	29	15.98	13.87
07-Feb-24	172	86	34	11.25	13.98
08-Feb-24	195	93	41	17.25	14.58
16-Feb-24	186	89	37	14.74	15.22
17-Feb-24	174	88	34	16.82	20.6
26-Feb-24	163	77	29	17.72	12.7
27-Feb-24	169	83	31	15.34	16.85
07-Mar-24	189	93	39	12.25	18.54
08-Mar-24	162	75	27	10.52	13.58
14-Mar-24	188	94	41	12.56	15.52
15-Mar-24	195	96	43	16.58	14.52

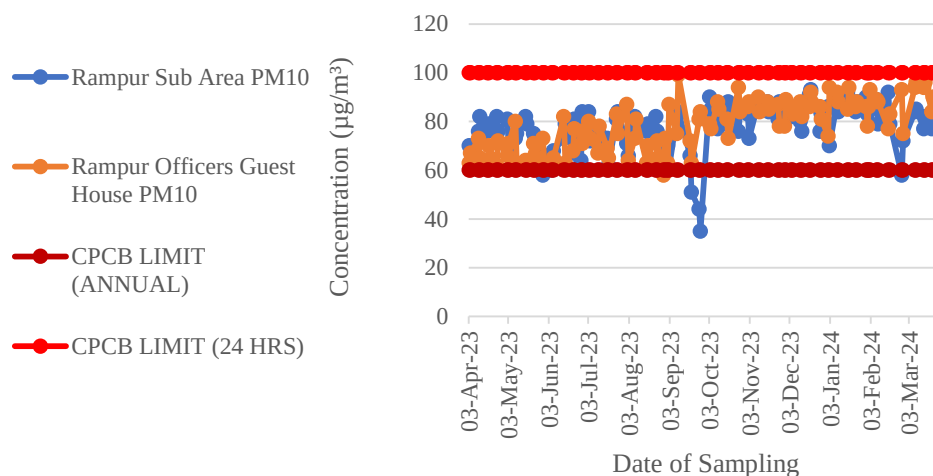
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20-Mar-24	194	94	41	16.08	20.37
21-Mar-24	198	96	43	20.17	20.96
27-Mar-24	172	84	31	17.94	17.05
28-Mar-24	186	90	38	18.58	22.73
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	210	99	43	29.52	24.65
Minimum	136	58	21	10.12	9.37
Average	163.8	78.4	30.4	15.0	16.4
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

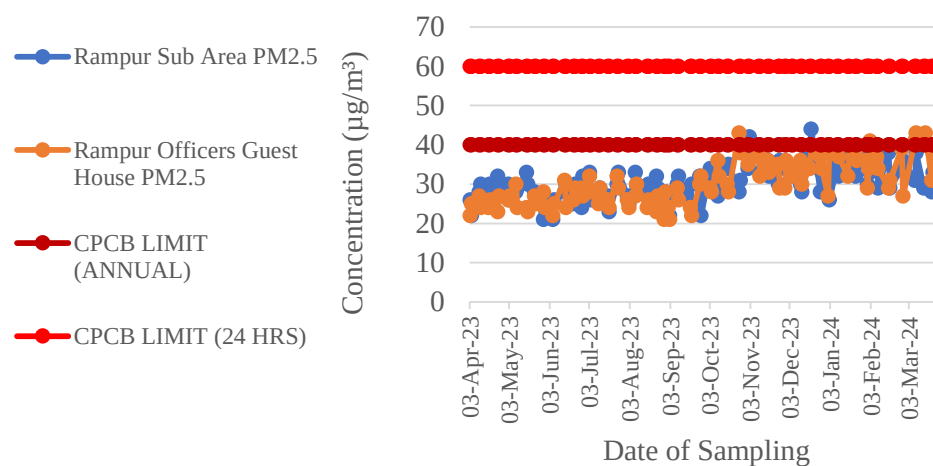


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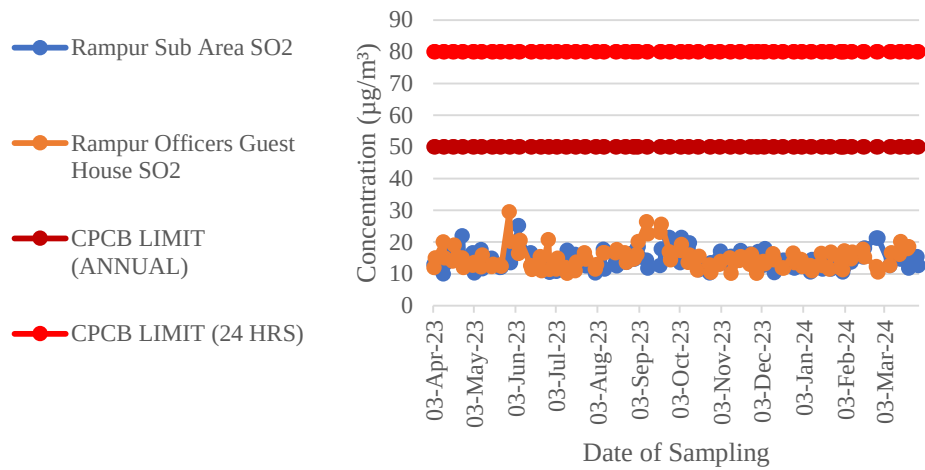
Graph Showing PM10 for HBM OCP



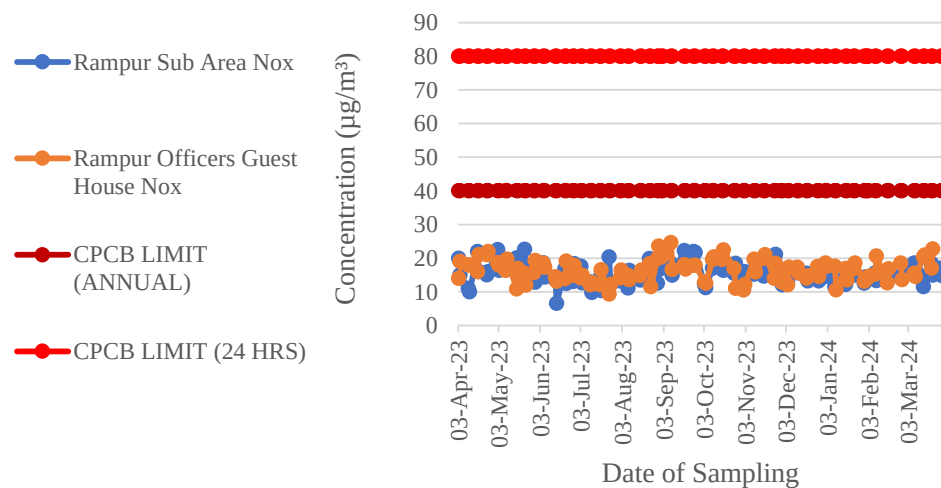
Graph Showing PM2.5 for HBM OCP



Graph Showing SO_x for HBM OCP



Graph Showing NO_x for HBM OCP



8.6 EXECUTIVE SUMMARY OF AAQM

Observation for PM₁₀

PM₁₀ at Compliance stations ranges from 56.0 µg/m³ (Orient) to 186.0 µg/m³ (Basundhara). As per Coal Mine Standard, (GSR 742(E)- 250 µg/m³) the values are well within the permissible limits. For reference stations, PM₁₀ varies from minimum 60.0 µg/m³ (South of quarry 6) to maximum 186.0 µg/m³ (Lakhanpur). For reference stations also, the values are well within the permissible limit of NAAQS-2009 (100 µg/m³).

Observation for PM_{2.5}

PM_{2.5} at Compliance stations varies from 20.0 µg/m³ (Orient) to 72.0 µg/m³ (Basundhara). At reference stations, PM_{2.5} varies from 20.0 µg/m³ (South of quarry 6, Lakhanpur) to 55.0 µg/m³ (NaSouth of Quarry 6, Lakhanpur). For Reference stations, values of PM_{2.5} are well within the permissible limit of NAAQS-2009 (60.0 µg/m³).

Observation for SO₂ and NO_x

Values of both SO₂ and NO_x was observed very low compared to the permissible limits of Coal mine Standard (120 µg/m³) and NAAQS-2009 (80 µg/m³). The minimum value in core zone for SO₂ was 9.0 µg/m³ and maximum was 46.05 µg/m³ both at Orient Area. Likewise, for NO_x minimum was 10.08 µg/m³ and maximum was 26.88 µg/m³, both recorded at Orient area. For reference stations, SO₂ ranges from 10.47 µg/m³ at Lakhanpur OCP to 24.85 µg/m³ at Orient Area. Similarly NO_x, varies from minimum 10.03 µg/m³ (Orient Area) to maximum 24.45 µg/m³ (Orient Area). All the observed values of SO₂ and NO_x are well within the permissible limits. SO₂ and NO_x are not concern pollutants in the study area



HEAVY METAL MONITORING DATA

Table: 44
Area: IB Valley
All values are in $\mu\text{g}/\text{m}^3$

Project	Samaleswari OCP					
Monitoring Station	Khokelmal (Reported Only)					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
03-Apr-2023	<20.0	7.18	<0.1	<1.0	<1.0	0.2
04-Apr-2023	<20.0	6.83	<0.1	<1.0	<1.0	0.1
10-Apr-2023	<20.0	6.38	<0.1	<1.0	<1.0	0.2
11-Apr-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2
17-Apr-2023	<20.0	4.26	<0.1	<1.0	<1.0	0.1
18-Apr-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.2
24-Apr-2023	<20.0	5.42	<0.1	<1.0	<1.0	0.3
25-Apr-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.2
Standard	400(24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 45
Area: IB Valley
All values are in $\mu\text{g}/\text{m}^3$

Project	Samaleswari OCP					
Monitoring Station	Khokelmal (Reported Only)					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
30-May-23	<20.0	6.53	<0.1	<1.0	<1.0	0.2
29-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.1
23-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.3
22-May-23	<20.0	5.55	<0.1	<1.0	<1.0	0.1
17-May-23	<20.0	6.23	<0.1	<1.0	<1.0	0.2
16-May-23	<20.0	5.47	<0.1	<1.0	<1.0	0.2
08-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.1
06-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.3
03-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.2
03-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 46
Area: IB Valley
 All values are in $\mu\text{g}/\text{m}^3$

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH_3)	Ozone (O_3)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
05-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-June-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
14-June-2023	<20.0	8.12	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
15-June-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
21-June-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
22-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
27-June-2023	<20.0	8.10	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
28-June-2023	<20.0	7.73	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 47
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
04-July-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
10-July-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
11-July-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-July-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
18-July-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
24-July-2023	<20.0	5.61	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
25-July-2023	<20.0	3.94	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 48
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
02-Aug-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
07-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
08-Aug-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
16-Aug-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Aug-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
23-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Aug-2023	<20.0	4.95	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
29-Aug-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
30-Aug-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1h ours)	01(annual)	05(annual)

Table: 49

Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	4.61	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.51	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	6.07	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 50
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	7.04	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
04-Oct-2023	<20.0	6.03	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
09-Oct-2023	<20.0	6.13	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
10-Oct-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
16-Oct-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
17-Oct-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.8	BQUQ _L =0.7)	BQL
25-Oct-2023	<20.0	4.30	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
26-Oct-2023	<20.0	6.98	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 51
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	6.65	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	7.25	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	6.39	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	5.02	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
29-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Nov-2023	<20.0	6.84	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 52

Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	4.44	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	5.58	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	5.59	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	6.94	<0.1	<1.0	<1.0	0	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 53
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.53	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	4.98	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	7.51	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	8.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	6.34	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
17-Jan-2024/3345	<20.0	7.02	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	5.95	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	9.44	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	9.32	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	6.89	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 54
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	9.11	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	8.54	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	7.36	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	9.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	10.09	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	11.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	12.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	10.22	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 55
Area: IB Valley

Project	Samaleswari OCP							
Monitoring Station	Khokelmal (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	13.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
08-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
14-March-2024	<20.0	12.33	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
15-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
20-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0	BQL(Q L=0.7)	BQL
27-March-2024	<20.0	12.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
28-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 56

Area:*All values are in $\mu\text{g}/\text{m}^3$*

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
03-Apr-2023/83	<20.0	7.33	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
04-Apr-2023/84	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
10-Apr-2023/85	<20.0	7.08	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL =2.5)
11-Apr-2023/86	<20.0	8.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
17-Apr-2023/348	<20.0	5.83	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
18-Apr-2023/349	<20.0	5.75	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
24-Apr-2023/350	<20.0	4.92	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
25-Apr-2023/351	<20.0	8.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL =2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(11 hours)	01(annual)	05(annual)

Table: 57

Area: IB Valley*All values are in $\mu\text{g}/\text{m}^3$*

Project	Samleswari OCP					
Monitoring Station	Rampur Sub Area (Reported Only)					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
30-May-23	<20.0	5.25	<0.1	<1.0	<1.0	0.2
29-May-23	<20.0	4.62	<0.1	<1.0	<1.0	0.1
23-May-23	<20.0	5.94	<0.1	<1.0	<1.0	0.3
22-May-23	<20.0	5.97	<0.1	<1.0	<1.0	0.2
17-May-23	<20.0	3.97	<0.1	<1.0	<1.0	0.1
16-May-23	<20.0	4.29	<0.1	<1.0	<1.0	0.2
09-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.3
08-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.1
03-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.3
02-May-23	<20.0	6.21	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (11hours)

Table:58
Area: IB Valley
All values are in $\mu\text{g}/\text{m}^3$

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
05-June-2023	<20.0	5.72	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
06-June-2023	<20.0	6.17	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
14-June-2023	<20.0	5.90	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
15-June-2023	<20.0	5.19	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
21-June-2023	<20.0	6.99	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL =2.5)
22-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
27-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
28-June-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 59
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	3.91	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-July-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
11-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-July-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
18-July-2023	<20.0	7.04	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-July-2023	<20.0	5.60	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-July-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 60
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	6.04	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	5.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
29-Aug-2023	<20.0	5.40	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
30-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 61

Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	5.27	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	5.61	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 62
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
04-Oct-2023	<20.0	6.02	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
09-Oct-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
10-Oct-2023	<20.0	5.59	<0.1	<1.0	<1.0	0.9	BQUQ L=0.7)	BQL
16-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
17-Oct-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Oct-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
26-Oct-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 63
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	5.24	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	8.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	5.68	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	5.30	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	4.60	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
29-Nov-2023	<20.0	8.68	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Nov-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 64

Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	8.65	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	6.36	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	5.95	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	4.95	<0.1	<1.0	<1.0	1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 65
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	6.70	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	6.49	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	8.02	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	4.68	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	7.06	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	5.84	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	4.66	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.04	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	5.55	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 66
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	12.32	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	14.20	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	6.34	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	5.87	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	8.62	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	4.67	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	10.45	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 67
Area: IB Valley

Project	Samleswari OCP							
Monitoring Station	Rampur Sub Area (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-Mar-2024	<20.0	13.25	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
08-Mar-2024	<20.0	15.21	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
14-Mar-2024	<20.0	16.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
15-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
20-Mar-2024	<20.0	13.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-Mar-2024	<20.0	14.20	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
27-Mar-2024	<20.0	10.36	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
28-Mar-2024	<20.0	12.30	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 68

Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	7.18	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023	<20.0	6.83	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023	<20.0	6.38	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023	<20.0	4.26	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023	<20.0	5.42	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 69
Area: IB Valley

Project	Lajkura OCP					
Monitoring Station	Khokelmal					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
30-May-23	<20.0	6.53	<0.1	<1.0	<1.0	0.2
29-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.1
23-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.3
22-May-23	<20.0	5.55	<0.1	<1.0	<1.0	0.1
17-May-23	<20.0	6.23	<0.1	<1.0	<1.0	0.2
16-May-23	<20.0	5.47	<0.1	<1.0	<1.0	0.2
08-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.1
06-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.3
03-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.2
03-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 70
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-June-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
14-June-2023	<20.0	8.12	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
15-June-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
21-June-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
22-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
27-June-2023	<20.0	8.10	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
28-June-2023	<20.0	7.73	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 71
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-July-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-July-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
11-July-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-July-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
18-July-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-July-2023	<20.0	5.61	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
25-July-2023	<20.0	3.94	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 72
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.95	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 73
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
01-Sep-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	4.61	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
25-Sep-2023	<20.0	5.51	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
26-Sep-2023	<20.0	6.07	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 74
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	7.04	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
04-Oct-2023	<20.0	6.03	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
09-Oct-2023	<20.0	6.13	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
10-Oct-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
16-Oct-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
17-Oct-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.8	BQUQ _L =0.7)	BQL
25-Oct-2023	<20.0	4.30	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
26-Oct-2023	<20.0	6.98	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 75
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	6.65	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	7.25	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	6.39	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	5.02	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
29-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Nov-2023	<20.0	6.84	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table:76
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
05-Dec-2023	<20.0	4.44	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
11-Dec-2023	<20.0	5.58	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
12-Dec-2023	<20.0	5.59	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
18-Dec-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
19-Dec-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
26-Dec-2023	<20.0	6.94	<0.1	<1.0	<1.0	0	BQL(QL=0.7)	BQL
27-Dec-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 77
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benze ne
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Jan-2024	<20.0	5.45	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Jan-2024	<20.0	6.07	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Jan-2024	<20.0	6.45	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
16-Jan-2024	<20.0	6.38	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
17-Jan-2024	<20.0	8.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024/3346	<20.0	9.04	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
23-Jan-2024	<20.0	8.07	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
30-Jan-2024	<20.0	8.16	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
31-Jan-2024	<20.0	6.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 78
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benze ne
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	9.11	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
02-Feb-2024	<20.0	8.54	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
07-Feb-2024	<20.0	7.36	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Feb-2024	<20.0	9.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
16-Feb-2024	<20.0	10.09	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
17-Feb-2024	<20.0	11.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
26-Feb-2024	<20.0	12.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Feb-2024	<20.0	10.22	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 79
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Khokelmal							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	13.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
08-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
14-March-2024	<20.0	12.33	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
15-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
20-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0	BQL(Q L=0.7)	BQL
27-March-2024	<20.0	12.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
28-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 80
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	5.38	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Apr-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Apr-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Apr-2023	<20.0	5.82	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Apr-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Apr-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Apr-2023	<20.0	6.03	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Apr-2023	<20.0	6.29	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 81
Area: IB Valley

Project	Lajkura OCP					
Monitoring Station	Chukani					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
30-May-23	<20.0	5.55	<0.1	<1.0	<1.0	0.2
29-May-23	<20.0	5.43	<0.1	<1.0	<1.0	0.1
23-May-23	<20.0	5.45	<0.1	<1.0	<1.0	0.1
22-May-23	<20.0	5.47	<0.1	<1.0	<1.0	0.2
17-May-23	<20.0	4.21	<0.1	<1.0	<1.0	0.3
16-May-23	<20.0	7.12	<0.1	<1.0	<1.0	0.1
09-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.2
08-May-23	<20.0	6.30	<0.1	<1.0	<1.0	0.3
03-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.1
02-May-23	<20.0	7.13	<0.1	<1.0	<1.0	0.2
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 82
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	6.24	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
06-June-2023	<20.0	7.51	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
14-June-2023	<20.0	6.91	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
15-June-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
21-June-2023	<20.0	7.51	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
22-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
27-June-2023	<20.0	6.16	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
28-June-2023	<20.0	6.82	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 83
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
04-July-2023	<20.0	6.38	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
10-July-2023	<20.0	4.52	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
11-July-2023	<20.0	4.33	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
17-July-2023	<20.0	5.46	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
18-July-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
24-July-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
25-July-2023	<20.0	7.27	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 84
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
02-Aug-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
07-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
08-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
16-Aug-2023	<20.0	6.39	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Aug-2023	<20.0	5.46	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
23-Aug-2023	<20.0	7.08	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
29-Aug-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
30-Aug-2023	<20.0	7.28	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 85
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	7.28	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	5.76	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	5.91	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 86
Area: IB Valley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
04-Oct-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
09-Oct-2023	<20.0	4.15	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
1 O-Oct-2023	<20.0	4.97	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
16-Oct-2023	<20.0	5.43	<0.1	<1.0	<1.0	0.6	RQI(Q L=0.7)	BQL
17-Oct-2023	<20.0	5.37	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
25-Oct-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
26-Oct-2023	<20.0	5.37	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 87
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	5.06	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	5.38	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	5.39	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	8.64	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
29-Nov-2023	<20.0	7.60	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
30-Nov-2023	<20.0	5.67	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 88
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	7.72	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	8.01	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	8.25	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	7.35	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	8.00	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	7.44	<0.1	<1.0	<1.0	1	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	7.49	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 89
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.47	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	8.41	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	9.60	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	5.01	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	6.09	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	8.04	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	8.54	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	7.36	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.14	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	5.11	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 90
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	Chukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	6.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	5.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	7.98	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	8.04	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	6.77	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	11.21	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	10.36	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 91
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	Chaukani							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
08-March-2024	<20.0	12.33	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
14-March-2024	<20.0	12.25	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
15-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
07-March-2024	<20.0	13.24	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
20-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
21-March-2024	<20.0	14.21	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
28-March-2024	<20.0	14.26	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 92
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023	<20.0	6.83	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023	<20.0	7.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023	<20.0	6.53	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023	<20.0	5.41	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023	<20.0	5.16	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023	<20.0	6.10	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 93
Area: IBValley

Project	Lajkura OCP					
Monitoring Station	VIP Guest House, IB Valley					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
23-May-23	<20.0	4.65	<0.1	<1.0	<1.0	0.2
22-May-23	<20.0	5.42	<0.1	<1.0	<1.0	0.1
17-May-23	<20.0	4.16	<0.1	<1.0	<1.0	0.2
16-May-23	<20.0	4.12	<0.1	<1.0	<1.0	0.2
09-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.3
08-May-23	<20.0	5.78	<0.1	<1.0	<1.0	0.2
03-May-23	<20.0	6.66	<0.1	<1.0	<1.0	0.1
02-May-23	<20.0	6.14	<0.1	<1.0	<1.0	0.3
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 94

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	5.84	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
14-June-2023	<20.0	6.03	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
15-June-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
21-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
22-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
27-June-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
28-June-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Area: IBValley

Table: 95
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-July-2023	<20.0	4.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-July-2023	<20.0	5.94	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-July-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-July-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-July-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-July-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
29-July-2023	<20.0	4.38	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
31-July-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 96
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.01	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	5.24	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	7.50	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	6.66	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 97
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
02-Sep-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
08-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
09-Sep-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
18-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
19-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
25-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
26-Sep-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 98
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
04-Oct-2023	<20.0	6.22	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
09-Oct-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
10-Oct-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
16-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
17-Oct-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
25-Oct-2023	<20.0	6.17	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
26-Oct-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
30-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
31-Oct-2023	<20.0	6.22	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 99

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	4.22	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
02-Nov-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
09-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
10-Nov-2023	<20.0	5.38	<0.1	<1.0	<1.0	1	BQL(Q _L =0.7)	BQL
16-Nov-2023	<20.0	7.45	<0.1	<1.0	<1.0	1.1	BQL(Q _L =0.7)	BQL
17-Nov-2023	<20.0	6.31	<0.1	<1.0	<1.0	1.4	BQL(Q _L =0.7)	BQL
24-Nov-2023	<20.0	5.05	<0.1	<1.0	<1.0	1.2	BQL(Q _L =0.7)	BQL
25-Nov-2023	<20.0	7.06	<0.1	<1.0	<1.0	1.3	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Area: IB Valley

Table: 100
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	4.45	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
05-Dec-2023	<20.0	4.85	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
11-Dec-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
12-Dec-2023	<20.0	4.46	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
18-Dec-2023	<20.0	5.51	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
19-Dec-2023	<20.0	4.75	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
26-Dec-2023	<20.0	5.53	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
27-Dec-2023	<20.0	5.66	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 101
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	6.33	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	7.77	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	8.25	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	6.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	6.32	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	4.08	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	7.06	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.44	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	6.18	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 102
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	6.40	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	7.54	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	6.18	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	5.94	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	6.08	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	6.74	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	5.99	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	9.14	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 103
Area: IBValley

Project	Lajkura OCP							
Monitoring Station	VIP Guest House, IB Valley							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	12.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-March-2024	<20.0	15.22	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
14-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
15-March-2024	<20.0	14.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
20-March-2024	<20.0	10.20	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-March-2024	<20.0	11.36	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-March-2024	<20.0	14.25	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
28-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 104
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Apr-2023	<20.0	5.71	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Apr-2023	<20.0	5.43	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Apr-2023	<20.0	5.61	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Apr-2023	<20.0	5.73	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Apr-2023	<20.0	6.80	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Apr-2023	<20.0	7.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 105
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
23-May-23	<20.0	6.12	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
22-May-23	<20.0	5.42	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
17-May-23	<20.0	6.14	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
16-May-23	<20.0	5.78	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
09-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
08-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
03-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
02-May-23	<20.0	7.05	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 106
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
06-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
14-June-2023	<20.0	4.84	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
15-June-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
21-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
22-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
28-June-2023	<20.0	6.14	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 107
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
04-July-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
10-July-2023	<20.0	4.87	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
11-July-2023	<20.0	7.44	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
17-July-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
18-July-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
24-July-2023	<20.0	4.05	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
25-July-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
29-July-2023	<20.0	5.33	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
31-July-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(h our)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1h ours)	01(annual)	05(annual)

Table: 108
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
02-Aug-2023	<20.0	4.80	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
07-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
08-Aug-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
16-Aug-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Aug-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
23-Aug-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 109
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	5.20	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	7.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 110
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	4.59	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
04-Oct-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
09-Oct-2023	<20.0	4.39	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
1 O-Oct-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
16-Oct-2023	<20.0	3.88	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
17-Oct-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
25-Oct-2023	<20.0	4.37	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
26-Oct-2023	<20.0	4.59	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Oct-2023	<20.0	4.59	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
31 -Oct-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 111
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	4.32	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	6.30	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	5.08	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	4.64	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	5.31	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	7.06	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	5.46	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	5.97	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 112
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	6.7	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	7.65	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	8.82	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	5.77	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	6.52	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	5.17	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	4.92	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 113
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	4.58	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	5.99	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	8.44	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	5.04	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	6.07	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.88	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	9.14	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 114
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South of Quarry 6							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	12.36	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
08-March-2024	<20.0	15.21	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
14-March-2024	<20.0	13.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
15-March-2024	<20.0	14.21	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
20-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
21-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
27-March-2024	<20.0	12.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
28-March-2024	<20.0	10.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1h hours)	01(annual)	05(annual)

Table: 115
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	6.89	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023	<20.0	4.93	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023	<20.0	4.14	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-202	<20.0	5.18	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023	<20.0	4.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023	<20.0	4.82	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 116
Area: Lakhanpur

Project	Lakhanpur OCP					
Monitoring Station	South West of Quarry 5					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
23-May-23	<20.0	4.52	<0.1	<1.0	<1.0	0.1
22-May-23	<20.0	4.78	<0.1	<1.0	<1.0	0.2
17-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.3
16-May-23	<20.0	7.39	<0.1	<1.0	<1.0	0.2
09-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.1
08-May-23	<20.0	6.65	<0.1	<1.0	<1.0	0.2
03-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2
02-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.3
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 117
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.62	BQL(QL=0.5)	BQL(QL=2.5)
06-June-2023	<20.0	8.11	<0.1	<1.0	<1.0	0.44	BQL(QL=0.5)	BQL(QL=2.5)
14-June-2023	<20.0	7.80	<0.1	<1.0	<1.0	0.53	BQL(QL=0.5)	BQL(QL=2.5)
15-June-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.41	BQL(QL=0.5)	BQL(QL=2.5)
21-June-2023	<20.0	6.41	<0.1	<1.0	<1.0	0.46	BQL(QL=0.5)	BQL(QL=2.5)
22-June-2023	<20.0	6.55	<0.1	<1.0	<1.0	0.64	BQL(QL=0.5)	BQL(QL=2.5)
27-June-2023	<20.0	6.62	<0.1	<1.0	<1.0	0.39	BQL(QL=0.5)	BQL(QL=2.5)
28-June-2023	<20.0	7.88	<0.1	<1.0	<1.0	0.09	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 118
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m³)	(μg/m³)	(μg/m³)	(ng/m³)	(ng/m³)	(mg/m³)	(ng/m³)	(μg/m³)
03-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BDL
04-July-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BDL
10-July-2023	<20.0	6.38	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BDL
11-July-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BDL
17-July-2023	<20.0	8.04	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BDL
18-July-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BDL
24-July-2023	<20.0	7.24	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BDL
25-July-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BDL
29-July-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BDL
31-July-2023	<20.0	6.13	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 119
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	5.43	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	4.27	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:120
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m³)	(μg/m³)	(μg/m³)	(ng/m³)	(ng/m³)	(mg/m³)	(ng/m³)	(μg/m³)
01-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	7.24	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	5.25	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
25-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
26-Sep-2023	<20.0	5.97	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:121
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
04-Oct-2023	<20.0	6.97	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
09-Oct-2023	<20.0	7.32	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
10-Oct-2023	<20.0	7.03	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
16-Oct-2023	<20.0	5.71	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
17-Oct-2023	<20.0	7.18	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
25-Oct-2023	<20.0	6.38	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
26-Oct-2023	<20.0	5.92	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
30-Oct-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
31-Oct-2023	<20.0	4.97	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:122
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
02-Nov-2023	<20.0	4.62	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
09-Nov-2023	<20.0	5.38	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
10-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
16-Nov-2023	<20.0	5.34	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
17-Nov-2023	<20.0	5.07	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
24-Nov-2023	<20.0	6.31	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
25-Nov-2023	<20.0	5.48	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:123
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
05-Dec-2023	<20.0	7.81	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
11-Dec-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
12-Dec-2023	<20.0	8.86	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
18-Dec-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
19-Dec-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
26-Dec-2023	<20.0	8.92	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
27-Dec-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table:124
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
02-Jan-2024	<20.0	6.40	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Jan-2024	<20.0	5.11	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Jan-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
16-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Jan-2024	<20.0	5.88	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
22-Jan-2024	<20.0	5.92	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
23-Jan-2024	<20.0	6.46	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
30-Jan-2024	<20.0	5.07	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
31-Jan-2024	<20.0	6.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:125
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	8.17	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
02-Feb-2024	<20.0	9.31	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
07-Feb-2024	<20.0	8.44	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
08-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
16-Feb-2024	<20.0	5.84	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
17-Feb-2024	<20.0	6.90	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
26-Feb-2024	<20.0	8.66	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
27-Feb-2024	<20.0	10.08	<0.1	<1.0	<1.0	1.0	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:126
Area: Lakhanpur

Project	Lakhanpur OCP							
Monitoring Station	South West of Quarry 5							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
08-March-2024	<20.0	13.64	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
14-March-2024	<20.0	16.31	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
15-March-2024	<20.0	13.24	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
20-March-2024	<20.0	16.33	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
21-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
27-March-2024	<20.0	10.95	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
28-March-2024	<20.0	11.34	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table:127
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023	<20.0	8.11	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023	<20.0	6.89	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023	<20.0	5.81	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023	<20.0	6.39	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023	<20.0	6.58	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:128
Area: Lakhanpur

Project	Belpahar OCP					
Monitoring Station	East of the Mine					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
23-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.1
22-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.1
17-May-23	<20.0	6.12	<0.1	<1.0	<1.0	0.3
16-May-23	<20.0	7.15	<0.1	<1.0	<1.0	0.2
09-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.2
08-May-23	<20.0	4.69	<0.1	<1.0	<1.0	0.1
03-May-23	<20.0	4.21	<0.1	<1.0	<1.0	0.3
02-May-23	<20.0	6.14	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table:129
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.25	BQL(QL=0.5)	BQL(QL=2.5)
06-June-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.29	BQL(QL=0.5)	BQL(QL=2.5)
14-June-2023	<20.0	5.81	<0.1	<1.0	<1.0	0.32	BQL(QL=0.5)	BQL(QL=2.5)
15-June-2023	<20.0	5.43	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
21-June-2023	<20.0	5.81	<0.1	<1.0	<1.0	0.28	BQL(QL=0.5)	BQL(QL=2.5)
22-June-2023	<20.0	6.36	<0.1	<1.0	<1.0	0.27	BQL(QL=0.5)	BQL(QL=2.5)
27-June-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.24	BQL(QL=0.5)	BQL(QL=2.5)
28-June-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.32	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:130
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.25	BQL(QL=0.7)	BDL
04-July-2023	<20.0	7.63	<0.1	<1.0	<1.0	0.29	BQL(QL=0.7)	BDL
10-July-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.32	BQL(QL=0.7)	BDL
11-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BDL
17-July-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.28	BQL(QL=0.7)	BDL
18-July-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.27	BQL(QL=0.7)	BDL
24-July-2023	<20.0	7.08	<0.1	<1.0	<1.0	0.24	BQL(QL=0.7)	BDL
25-July-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.32	BQL(QL=0.7)	BDL
29-July-2023	<20.0	6.06	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BDL
31-July-2023	<20.0	4.64	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:131
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.17	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	5.49	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	6.13	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	5.57	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.28	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:132
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
25-Sep-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
26-Sep-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:133
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
04-Oct-2023	<20.0	5.82	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
09-Oct-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
1 O-Oct-2023	<20.0	6.61	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
16-Oct-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.6	BQUQ _L =0.7)	BQL
17-Oct-2023	<20.0	6.19	<0.1	<1.0	<1.0	0.7	BQUQ _L =0.7)	BQL
25-Oct-2023	<20.0	5.02	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
26-Oct-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.8	BQUQ _L =0.7)	BQL
30-Oct-2023	<20.0	5.58	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
31 -Oct-2023	<20.0	5.82	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:134
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.14	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
02-Nov-2023	<20.0	5.31	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
09-Nov-2023	<20.0	5.64	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
10-Nov-2023	<20.0	7.25	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
16-Nov-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
17-Nov-2023	<20.0	5.55	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
24-Nov-2023	<20.0	8.47	<0.1	<1.0	<1.0	1.3	BQL(QL=0.7)	BQL
25-Nov-2023	<20.0	7.36	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:135
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
05-Dec-2023	<20.0	6.80	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
11-Dec-2023	<20.0	6.62	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
12-Dec-2023	<20.0	7.11	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
18-Dec-2023	<20.0	3.96	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
19-Dec-2023	<20.0	4.12	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
26-Dec-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
27-Dec-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:136
Area Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.11	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
02-Jan-2024	<20.0	6.44	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
08-Jan-2024	<20.0	5.88	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
09-Jan-2024	<20.0	4.96	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
16-Jan-2024	<20.0	6.54	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
17-Jan-2024	<20.0	5.03	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024	<20.0	5.97	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
23-Jan-2024	<20.0	8.05	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
30-Jan-2024	<20.0	7.02	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
31-Jan-2024	<20.0	6.47	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:137
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	6.14	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
02-Feb-2024	<20.0	8.47	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
07-Feb-2024	<20.0	9.64	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
08-Feb-2024	<20.0	5.88	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
16-Feb-2024	<20.0	6.37	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
17-Feb-2024	<20.0	8.48	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
26-Feb-2024	<20.0	5.95	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
27-Feb-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hours)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:138
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	East of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
08-March-2024	<20.0	12.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
14-March-2024	<20.0	11.87	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
15-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
20-March-2024	<20.0	16.26	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
21-March-2024	<20.0	15.74	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
27-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
28-March-2024	<20.0	13.67	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table:139
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	6.06	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Apr-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Apr-2023	<20.0	4.88	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Apr-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Apr-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Apr-2023	<20.0	4.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Apr-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Apr-2023	<20.0	6.36	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:140
Area: Lakhanpur

Project	Belpahar OCP					
Monitoring Station	South of the Mine					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
23-May-23	<20.0	6.34	<0.1	<1.0	<1.0	0.3
22-May-23	<20.0	6.12	<0.1	<1.0	<1.0	0.2
17-May-23	<20.0	6.45	<0.1	<1.0	<1.0	0.2
16-May-23	<20.0	5.12	<0.1	<1.0	<1.0	0.3
09-May-23	<20.0	7.16	<0.1	<1.0	<1.0	0.1
08-May-23	<20.0	5.78	<0.1	<1.0	<1.0	0.2
03-May-23	<20.0	5.54	<0.1	<1.0	<1.0	0.1
02-May-23	<20.0	5.55	<0.1	<1.0	<1.0	0.2
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 Annual)	04 1hours)

Table:141
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.20	BQL(Q L=0.5)	BQL(Q L=2.5)
06-June-2023	<20.0	8.12	<0.1	<1.0	<1.0	0.23	BQL(Q L=0.5)	BQL(Q L=2.5)
14-June-2023	<20.0	3.92	<0.1	<1.0	<1.0	0.61	BQL(Q L=0.5)	BQL(Q L=2.5)
15-June-2023	<20.0	4.23	<0.1	<1.0	<1.0	0.39	BQL(Q L=0.5)	BQL(Q L=2.5)
21-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
22-June-2023	<20.0	6.86	<0.1	<1.0	<1.0	0.08	BQL(Q L=0.5)	BQL(Q L=2.5)
27-June-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.03	BQL(Q L=0.5)	BQL(Q L=2.5)
28-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.02	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:142
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	6.14	<0.1	<1.0	<1.0	0.20	BQL(Q L=0.7)	BDL
04-July-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.23	BQL(Q L=0.7)	BDL
10-July-2023	<20.0	5.35	<0.1	<1.0	<1.0	0.61	BQL(Q L=0.7)	BDL
11-July-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.39	BQL(Q L=0.7)	BDL
17-July-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
18-July-2023	<20.0	4.09	<0.1	<1.0	<1.0	0.08	BQL(Q L=0.7)	BDL
24-July-2023	<20.0	4.67	<0.1	<1.0	<1.0	0.03	BQL(Q L=0.7)	BDL
25-July-2023	<20.0	5.84	<0.1	<1.0	<1.0	0.02	BQL(Q L=0.7)	BDL
29-July-2023	<20.0	5.67	<0.1	<1.0	<1.0	0.04	BQL(Q L=0.7)	BDL
31-July-2023	<20.0	5.57	<0.1	<1.0	<1.0	0.09	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1h ours)	01(annual)	05(annual)

Table:143
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	7.14	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
02-Aug-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
07-Aug-2023	<20.0	7.84	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
08-Aug-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
16-Aug-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Aug-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
23-Aug-2023	<20.0	7.54	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Aug-2023	<20.0	7.11	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:144
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
02-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
08-Sep-2023	<20.0	7.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
09-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
18-Sep-2023	<20.0	5.85	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
19-Sep-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
25-Sep-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
26-Sep-2023	<20.0	5.38	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
		5.55						
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:145
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
04-Oct-2023	<20.0	6.28	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
09-Oct-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.8	BQUQ L=0.7)	BDL
1 O-Oct-2023	<20.0	6.91	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
16-Oct-2023	<20.0	4.92	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
17-Oct-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
25-Oct-2023	<20.0	6.97	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
26-Oct-2023	<20.0	6.59	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
3 O-Oct-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.8	BQUQ L=0.7)	BDL
31 -Oct-2023	<20.0	6.28	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:146
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023/	<20.0	6.32	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BDL
02-Nov-2023/	<20.0	4.21	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BDL
09-Nov-2023/	<20.0	4.78	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BDL
10-Nov-2023/	<20.0	6.64	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BDL
16-Nov-2023/	<20.0	3.97	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BDL
17-Nov-2023/	<20.0	5.90	<0.1	<1.0	<1.0	1.5	BQL(Q L=0.7)	BDL
24-Nov-2023/	<20.0	8.64	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BDL
25-Nov-2023/	<20.0	5.39	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:147
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	8.55	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
05-Dec-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
11-Dec-2023	<20.0	8.88	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
12-Dec-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
18-Dec-2023	<20.0	7.22	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
19-Dec-2023	<20.0	7.11	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
26-Dec-2023	<20.0	7.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
27-Dec-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:148
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.47	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
02-Jan-2024	<20.0	5.14	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
08-Jan-2024	<20.0	9.32	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
09-Jan-2024	<20.0	8.06	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
16-Jan-2024	<20.0	5.74	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
17-Jan-2024	<20.0	5.81	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
22-Jan-2024	<20.0	5.32	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
23-Jan-2024	<20.0	5.74	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
30-Jan-2024	<20.0	8.06	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
31-Jan-2024	<20.0	5.94	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:149
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	6.54	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
02-Feb-2024	<20.0	8.48	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
07-Feb-2024	<20.0	9.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
08-Feb-2024	<20.0	4.62	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
16-Feb-2024	<20.0	8.01	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
17-Feb-2024	<20.0	9.39	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
26-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
27-Feb-2024	<20.0	10.57	<0.1	<1.0	<1.0	0.6	BQUQ L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table:150
Area: Lakhanpur

Project	Belpahar OCP							
Monitoring Station	South of the Mine							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	11.45	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
08-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
14-March-2024	<20.0	14.58	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
15-March-2024	<20.0	10.99	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
20-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
21-March-2024	<20.0	15.47	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
27-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
28-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table:151
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Community Centre							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
05-Apr-2023	<20.0	7.96	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023	<20.0	6.19	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023	<20.0	5.61	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023	<20.0	5.81	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023	<20.0	4.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table:152
Area: Mahalaxmi

Project	Basundhara (W) OCP					
Monitoring Station	Sarangijharia Community Centre					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)
30-May-23	<20.0	4.98	<0.1	<1.0	<1.0	0.1
29-May-23	<20.0	4.68	<0.1	<1.0	<1.0	0.2
25-May-23	<20.0	4.87	<0.1	<1.0	<1.0	0.3
24-May-23	<20.0	6.08	<0.1	<1.0	<1.0	0.3
19-May-23	<20.0	5.32	<0.1	<1.0	<1.0	0.1
18-May-23	<20.0	5.66	<0.1	<1.0	<1.0	0.1
11-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.1
10-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.3
05-May-23	<20.0	7.91	<0.1	<1.0	<1.0	0.1
04-May-23	<20.0	5.47	<0.1	<1.0	<1.0	0.3
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table:153
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
01-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
02-June-2023	<20.0	5.59	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-June-2023	<20.0	6.02	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
13-June-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.5)	BQL(Q L=2.5)
19-June-2023	<20.0	4.88	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
20-June-2023	<20.0	5.92	<0.1	<1.0	<1.0	1	BQL(Q L=0.5)	BQL(Q L=2.5)
23-June-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
24-June-2023	<20.0	6.84	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table:154
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
05-July-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
06-July-2023	<20.0	5.34	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
12-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
13-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
19-July-2023	<20.0	7.22	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
20-July-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
26-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
27-July-2023	<20.0	4.85	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table:155
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzen e
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
03-Aug-2023	<20.0	5.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Aug-2023	<20.0	5.33	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Aug-2023	<20.0	5.11	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Aug-2023	<20.0	6.35	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Aug-2023	<20.0	7.44	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Aug-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Aug-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
29-Aug-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
30-Aug-2023	<20.0	7.22	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table:156
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	4.51	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
05-Sep-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
11-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
12-Sep-2023	<20.0	4.88	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
20-Sep-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
27-Sep-2023	<20.0	5.35	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
28-Sep-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table:157
Area Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	6.07	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
06-Oct-2023	<20.0	6.08	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
11-Oct-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
12-Oct-2023	<20.0	7.09	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
18-Oct-2023	<20.0	7.89	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
19-Oct-2023	<20.0	8.88	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
27-Oct-2023	<20.0	6.46	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
28-Oct-2023	<20.0	8.98	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 158
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
04-Nov-2023	<20.0	4.32	<0.1	<1.0	<1.0	1.7	BQL(Q L=0.7)	BDL
07-Nov-2023	<20.0	7.65	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
08-Nov-2023	<20.0	4.63	<0.1	<1.0	<1.0	1.4	BQL(Q L=0.7)	BDL
13-Nov-2023	<20.0	5.87	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BDL
14-Nov-2023	<20.0	5.77	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BDL
20-Nov-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
21-Nov-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
27-Nov-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
28-Nov-2023	<20.0	6.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 159
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	5.81	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
02-Dec-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
08-Dec-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
09-Dec-2023	<20.0	5.77	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
15-Dec-2023	<20.0	5.66	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
16-Dec-2023	<20.0	6.92	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
22-Dec-2023	<20.0	7.92	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
23-Dec-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 160
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
04-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
10-Jan-2024	<20.0	8.45	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
11-Jan-2024	<20.0	8.36	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
18-Jan-2024	<20.0	8.01	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
19-Jan-2024	<20.0	9.25	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
24-Jan-2024	<20.0	4.84	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
25-Jan-2024	<20.0	5.74	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 161
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Feb-2024	<20.0	6.78	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
06-Feb-2024	<20.0	9.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
12-Feb-2024	<20.0	5.38	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
13-Feb-2024	<20.0	7.99	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
19-Feb-2024	<20.0	10.29	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
20-Feb-2024	<20.0	5.65	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
23-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	1.5	BQL(Q L=0.7)	BDL
24-Feb-2024	<20.0	8.36	<0.1	<1.0	<1.0	0.6	BQUQ L=0.7)	BDL
28-Feb-2024	<20.0	8.17	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
29-Feb-2024	<20.0	7.33	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 162
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Sarangijharia Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
02-Mar-2024	<20.0	14.25	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
12-Mar-2024	<20.0	13.68	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
18-Mar-2024	<20.0	12.55	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
19-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
22-Mar-2024	<20.0	11.84	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
23-Mar-2024	<20.0	16.59	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 163
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.16	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023	<20.0	5.80	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023	<20.0	8.02	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023	<20.0	6.55	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023	<20.0	6.29	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 164
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
30-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
29-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
25-May-23	<20.0	4.38	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
24-May-23	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
19-May-23	<20.0	5.54	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
18-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
11-May-23	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
10-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.21	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 165
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-June-2023	<20.0	8.18	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
02-June-2023	<20.0	5.19	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
12-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
13-June-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
19-June-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
20-June-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
23-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
24-June-2023	<20.0	6.88	<0.1	<1.0	<1.0		BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 166
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-July-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
06-July-2023	<20.0	3.97	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
12-July-2023	<20.0	4.08	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
13-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
19-July-2023	<20.0	5.27	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
20-July-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
26-July-2023	<20.0	6.70	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
27-July-2023	<20.0	6.13	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 167
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Aug-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Aug-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Aug-2023	<20.0	3.87	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Aug-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Aug-2023	<20.0	6.40	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Aug-2023	<20.0	5.28	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Aug-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Aug-2023	<20.0	5.97	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
29-Aug-2023	<20.0	5.42	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
30-Aug-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 168
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
05-Sep-2023	<20.0	5.32	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BDL
11-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
12-Sep-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BDL
20-Sep-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
21-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
27-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BDL
28-Sep-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 169
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	5.60	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BDL
06-Oct-2023	<20.0	4.85	<0.1	<1.0	<1.0	0.5	BQUQ _L =0.7	BDL
11-Oct-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BDL
12-Oct-2023	<200	7.32	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BDL
18-Oct-2023	<200	8.31	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BDL
19-Oct-2023	<20.0	7.28	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BDL
27-Oct-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.3	BOUQ _L =0.7	BDL
28-Oct-2023	<20.0	4.91	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 170
Area Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	7.75	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
02-Dec-2023	<20.0	5.80	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
08-Dec-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
09-Dec-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
15-Dec-2023	<20.0	3.96	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
16-Dec-2023	<20.0	4.12	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
22-Dec-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
23-Dec-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 171
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
04-Jan-2024	<20.0	5.32	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BDL
10-Jan-2024	<20.0	5.01	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
11-Jan-2024	<20.0	6.02	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
18-Jan-2024	<20.0	7.05	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
19-Jan-2024	<20.0	6.45	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BDL
24-Jan-2024	<20.0	5.89	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
25-Jan-2024	<20.0	8.04	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 172
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Feb-2024	<20.0	8.35	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
06-Feb-2024	<20.0	7.21	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
12-Feb-2024	<20.0	10.36	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
13-Feb-2024	<20.0	5.31	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BDL
19-Feb-2024	<20.0	10.69	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
20-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BDL
23-Feb-2024	<20.0	8.61	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
24-Feb-2024	<20.0	5.39	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
28-Feb-2024	<20.0	5.47	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BDL
29-Feb-2024	<20.0	4.99	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 173
Area: Mahalaxmi

Project	Basundhara (W) OCP							
Monitoring Station	Ratansara Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BDL
02-Mar-2024	<20.0	14.57	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BDL
11-Mar-2024	<20.0	16.31	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BDL
12-Mar-2024	<20.0	14.58	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BDL
18-Mar-2024	<20.0	14.66	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BDL
19-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BDL
22-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BDL
23-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BDL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 174
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-Apr-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
12-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
13-Apr-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
19-Apr-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
20-Apr-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
26-Apr-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
27-Apr-2023	<20.0	8.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 175
Area: Basundhara

Project	Kulda OCP					
Monitoring Station	North of CHP					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
25-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.1
24-May-23	<20.0	5.64	<0.1	<1.0	<1.0	0.2
19-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.2
18-May-23	<20.0	5.1	<0.1	<1.0	<1.0	0.1
11-May-23	<20.0	6.48	<0.1	<1.0	<1.0	0.3
10-May-23	<20.0	4.58	<0.1	<1.0	<1.0	0.2
05-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.1
04-May-23	<20.0	6.44	<0.1	<1.0	<1.0	0.2
Standard	400 24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 176
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01 -June-2023	<20.0	7.48	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
02-June-2023	<20.0	6.84	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
12-June-2023	<20.0	5.92	<0.1	<1.0	<1.0	0.9	BQL(QL=0.5)	BQL(QL=2.5)
13-June-2023	<20.0	6.08	<0.1	<1.0	<1.0	0.7	BQL(QL=0.5)	BQL(QL=2.5)
19-June-2023	<20.0	6.46	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
20-June-2023	<20.0	5.83	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
23-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.7	BQL(QL=0.5)	BQL(QL=2.5)
24-June-2023	<20.0	5.19	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
29-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
30-June-2023	<20.0	6.92	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 177
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-July-2023	<20.0	5.30	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
06-July-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
12-July-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
13-July-2023	<20.0	5.46	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
19-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
20-July-2023	<20.0	4.97	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
26-July-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
27-July-2023	<20.0	4.92	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 178
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03 -Aug-2023	<20.0	5.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
10-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
11-Aug-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
18-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
19-Aug-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-Aug-2023	<20.0	6.41	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
26-Aug-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 179
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
04-Sep-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
05-Sep-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
11-Sep-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
12-Sep-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
20-Sep-2023	<20.0	5.31	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
21-Sep-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
27-Sep-2023	<20.0	6.69	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
28-Sep-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
29-Sep-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
30-Sep-2023	<20.0	5.31	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
Standard	400(24h hours)	180(hour)	1.0(24h hours)	6.0(Annual)	20(Annual)	04(1 hour s)	01(annual)	05(annual)

Table: 180
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05 -Oct-2023	<20.0	6.89	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
06-Oct-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
11 -Oct-2023	<20.0	5.05	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Oct-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
18-Oct-2023	<20.0	441.	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Oct-2023	<20.0	7.05	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Oct-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
05 -Oct-2023	<20.0	6.89	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(A nnual)	20(A nnua l)	04(1 hour s)	01(ann ual)	05(annual)

Table: 181
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023/	<20.0	4.51	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
04-Nov-2023/	<20.0	5.23	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
13-Nov-2023/	<20.0	5.63	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
14-Nov-2023/	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
20-Nov-2023/	<20.0	5.68	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
21-Nov-2023/	<20.0	7.64	<0.1	<1.0	<1.0	1	BQL(Q _L =0.7)	BQL
27-Nov-2023/	<20.0	5.05	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
28-Nov-2023/	<20.0	6.34	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 182
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
01-Dec-2023	<20.0	6.81	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
02-Dec-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
08-Dec-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
15-Dec-2023	<20.0	5.77	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
16-Dec-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
22-Dec-2023	<20.0	5.26	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
23-Dec-2023	<20.0	5.44	<0.1	<1.0	<1.0	1.0	BQL(Q _L =0.7)	BQL
29-Dec-2023	<20.0	6.81	<0.1	<1.0	<1.0	1.0	BQL(Q _L =0.7)	BQL
30-Dec-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour s)	01(annual)	05(annual)

Table: 183
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
03-Jan-2024	<20.0	6.14	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
04-Jan-2024	<20.0	5.11	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
10-Jan-2024	<20.0	5.87	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
11-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
18-Jan-2024	<20.0	6.98	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
19-Jan-2024	<20.0	8.04	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
24-Jan-2024	<20.0	8.56	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
25-Jan-2024	<20.0	5.32	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 184
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
05-Feb-2024	<20.0	6.25	<0.1	<1.0	<1.0	0.4	BQUQL=0.7)	BQL
06-Feb-2024	<20.0	8.54	<0.1	<1.0	<1.0	0.5	BQUQL=0.7)	BQL
12-Feb-2024	<20.0	8.69	<0.1	<1.0	<1.0	0.6	BQUQL=0.7)	BQL
13-Feb-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.6	BQUQL=0.7)	BQL
19-Feb-2024	<20.0	6.38	<0.1	<1.0	<1.0	0.8	BQUQL=0.7)	BQL
20-Feb-2024	<20.0	7.14	<0.1	<1.0	<1.0	0.7	BQUQL=0.7)	BQL
23-Feb-2024	<20.0	9.04	<0.1	<1.0	<1.0	0.8	BQUQL=0.7)	BQL
24-Feb-2024	<20.0	10.69	<0.1	<1.0	<1.0	1	BQUQL=0.7)	BQL
28-Feb-2024	<20.0	11.24	<0.1	<1.0	<1.0	1.2	BQUQL=0.7)	BQL
29-Feb-2024	<20.0	13.25	<0.1	<1.0	<1.0	0.4	BQUQL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 185
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	North of CHP							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
01-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
02-Mar-2024	<20.0	15.14	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
12-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
18-Mar-2024	<20.0	13.64	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Mar-2024	<20.0	11.54	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
22-Mar-2024	<20.0	13.99	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
23-Mar-2024	<20.0	15.78	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hour)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1h ours)	01(annual)	05(annual)

Table: 186
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.07	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-Apr-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
12-Apr-2023	<20.0	7.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
13-Apr-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
19-Apr-2023	<20.0	8.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
20-Apr-2023	<20.0	7.96	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
26-Apr-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
27-Apr-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24h hours)	180(hour)	1.0(24h hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 187
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
25-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
24-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
19-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-May-23	<20.0	7.21	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
11-May-23	<20.0	5.54	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
05-May-23	<20.0	6.94	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)	01(annual)	05(annual)

Table: 188
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
02-June-2023	<20.0	7.37	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
12-June-2023	<20.0	5.28	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
13-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.5)	BQL(Q L=2.5)
19-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
20-June-2023	<20.0	6.18	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
23-June-2023	<20.0	6.29	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.5)	BQL(Q L=2.5)
24-June-2023	<20.0	5.84	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
29-June-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
30-June-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 189
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-July-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-July-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-July-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
13-July-2023	<20.0	5.34	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
19-July-2023	<20.0	6.06	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
20-July-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-July-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
27-July-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table:190
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Aug-2023	<20.0	5.13	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Aug-2023	<20.0	4.28	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Aug-2023	<20.0	5.99	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Aug-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Aug-2023	<20.0	5.10	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Aug-2023	<20.0	4.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Aug-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Aug-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 191
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	7.84	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	5.65	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
28-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
29-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
30-Sep-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(2 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 192
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	3.99	<0.1	<1.0	<1.0	0.4	BQUQL =0.7)	BQL
06-Oct-2023	<20.0	6.42	<0.1	<1.0	<1.0	0.1	BQL(QL =0.7)	BQL
11 -Oct-2023	<20.0	6.38	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
12-Oct-2023	<20.0	6.01	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
18-Oct-2023	<20.0	5.95	<0.1	<1.0	<1.0	0.8	BQUQL =0.7)	BQL
19-Oct-2023	<20.0	7.41	<0.1	<1.0	<1.0	0.4	BQUQL =0.7)	BQL
27-Oct-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.4	BQUQL =0.7)	BQL
28-Oct-2023	<20.0	6.63	<0.1	<1.0	<1.0	0.4	BQUQL =0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(2 4hou rs)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 193
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023	<20.0	5.14	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
04-Nov-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
13-Nov-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
14-Nov-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
20-Nov-2023	<20.0	5.74	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
21-Nov-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
27-Nov-2023	<20.0	6.90	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
28-Nov-2023	<20.0	6.40	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 194
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	7.55	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
02-Dec-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
08-Dec-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
09-Dec-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
15-Dec-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
22-Dec-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
23-Dec-2023	<20.0	6.63	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
29-Dec-2023	<20.0	6.12	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
30-Dec-2023	<20.0	8.01	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 195
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.54	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	5.14	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	5.87	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	8.06	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	7.05	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	6.99	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	4.84	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	5.08	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(2 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 196
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
05-Feb-2024	<20.0	10.26	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
06-Feb-2024	<20.0	10.97	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
12-Feb-2024	<20.0	8.94	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
13-Feb-2024	<200	9.34	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
19-Feb-2024	<20.0	7.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
20-Feb-2024	<20.0	10.68	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
23-Feb-2024	<20.0	8.88	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
24-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
28-Feb-2024	<20.0	6.33	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
29-Feb-2024	<20.0	8.45	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 197

Project	KuldaOCP							
Monitoring Station	South West of Working Face, Chakrapur							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
02-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Mar-2024	<20.0	11.24	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Mar-2024	<20.0	10.89	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
22-Mar-2024	<20.0	15.67	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
23-Mar-2024	<20.0	12.69	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
29-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
30-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Area: Basundhara

Table: 198

Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023	<20.0	5.86	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023	<20.0	5.26	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1ho urs)	01(annu al)	05(ann ual)

Table: 199
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Amm onia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
25-May-23	<20.0	7.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
24-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
19-May-23	<20.0	6.02	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
18-May-23	<20.0	5.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
10-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
05-May-23	<20.0	4.99	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-May-23	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01 (annual)	05 (annual)

Table: 200
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-June-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
02-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
12-June-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
13-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
19-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
20-June-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
23-June-2023	<20.0	6.28	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.5)	BQL(Q L=2.5)
24-June-2023	<20.0	7.29	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
29-June-2023	<20.0	6.57	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
30-June-2023	<20.0	5.86	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 201
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-July-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
06-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
12-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
13-July-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
19-July-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
20-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
26-July-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
27-July-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 202
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Aug-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Aug-2023	<20.0	5.33	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Aug-2023	<20.0	4.89	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Aug-2023	<20.0	5.06	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Aug-2023	<20.0	7.61	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Aug-2023	<20.0	5.28	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 203
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	4.84	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
20-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
27-Sep-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
28-Sep-2023	<20.0	5.75	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
29-Sep-2023	<20.0	4.77	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
30-Sep-2023	<20.0	5.2	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 204
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	7.08	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
06-Oct-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11 -Oct-2023	<20.0	6.43	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
12-Oct-2023	<20.0	6.29	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
18-Oct-2023	<20.0	3.98	<0.1	<1.0	<1.0	0.9	BQUQ 1.=0.7)	BQL
19-Oct-2023	<20.0	6.20	<0.1	<1.0	<1.0	0.6	BQL(Q 1.=0.7)	BQL
27-Oct-2023	<20.0	4.73	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
28-OCI-2023	<20.0	5.18	<0.1	<1.0	<1.0	0.9	BQUQ L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 205
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
04-Nov-2023	<20.0	7.05	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
13-Nov-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
14-Nov-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
20-Nov-2023	<20.0	5.10	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
21-Nov-2023	<20.0	8.45	<0.1	<1.0	<1.0	1	BQL(Q _L =0.7)	BQL
27-Nov-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
28-Nov-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 206
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	8.55	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
02-Dec-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
08-Dec-2023	<20.0	8.21	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
09-Dec-2023	<20.0	7.32	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
15-Dec-2023	<20.0	5.15	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
16-Dec-2023	<20.0	6.15	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
22-Dec-2023	<20.0	7.76	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
23-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
29-Dec-2023	<20.0	5.85	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Dec-2023	<20.0	7.55	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 207
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	9.45	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	6.78	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	8.61	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	4.63	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	5.44	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	8.02	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	9.07	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 208
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Feb-2024	<20.0	12.14	<0.1	<1.0	<1.0	1.1	BQUQ L=0.7)	BQL
06-Feb-2024	<20.0	12.36	<0.1	<1.0	<1.0	0.4	BQUQ 1.=0.7)	BQL
12-Feb-2024	<20.0	8.24	<0.1	<1.0	<1.0	0.5	BQUQ 1.=0.7)	BQL
13-Feb-2024	<20.0	12.30	<0.1	<1.0	<1.0	0.6	BQUQ 1=0.7)	BQL
19-Feb-2024	<20.0	5.88	<0.1	<1.0	<1.0	0.6	BQUQ L=0.7)	BQL
20-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	1	BQL(Q 1.=0.7)	BQL
23-Feb-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(Q 1.=0.7)	BQL
24-Feb-2024	<20.0	8.17	<0.1	<1.0	<1.0	0.7	BQUQ 1.=0.7)	BQL
28-Feb-2024	<20.0	5.94	<0.1	<1.0	<1.0	0.8	BQUQ 1.=0.7)	BQL
05-Feb-2024	<20.0	12.14	<0.1	<1.0	<1.0	1.1	BQUQ L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 209
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Kutabaga Village/ South East of Working Face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
01-Mar-2024	<20.0	14.56	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
02-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
12-Mar-2024	<20.0	12.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Mar-2024	<20.0	14.53	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
19-Mar-2024	<20.0	15.84	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
22-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
23-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 210
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ South west of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023	<20.0	7.18	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(2 4hour s)	6.0(An nual)	20(Ann ual)	04(1h0. ours)	01(annu al)	05(ann ual)

Table: 211
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ South west of working face							
Date of sampling	Ammo nia (NH ₃)	Ozo ne (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
25-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-May-23	<20.0	4.65	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
19-May-23	<20.0	4.69	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-May-23	<20.0	4.36	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-May-23	<20.0	6.47	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-May-23	<20.0	4.98	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
05-May-23	<20.0	7.84	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-May-23	<20.0	7.77	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20(Annual)	04 (1hours)	01 (annual)	05 (annual)

Table: 212
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-June-2023	<20.0	5.79	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
02-June-2023	<20.0	6.16	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
12-June-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.8	BQL(QL=0.5)	BQL(QL=2.5)
13-June-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
19-June-2023	<20.0	6.69	<0.1	<1.0	<1.0	0.9	BQL(QL=0.5)	BQL(QL=2.5)
20-June-2023	<20.0	6.18	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
23-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	1.3	BQL(QL=0.5)	BQL(QL=2.5)
24-June-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
29-June-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
30-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 213
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-July-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL= 2.5)
06-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL= 2.5)
12-July-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(QL= 2.5)
13-July-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL= 2.5)
19-July-2023	<20.0	4.64	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(QL= 2.5)
20-July-2023	<20.0	5.57	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(QL= 2.5)
26-July-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(QL= 2.5)
27-July-2023	<20.0	4.28	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(QL= 2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 214
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Aug-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(QL= 2.5)
04-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL= 2.5)
10-Aug-2023	<20.0	5.27	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL= 2.5)
11-Aug-2023	<20.0	7.55	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL= 2.5)
18-Aug-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL= 2.5)
19-Aug-2023	<20.0	5.30	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(QL= 2.5)
25-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL= 2.5)
26-Aug-2023	<20.0	5.67	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL= 2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 215
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
05-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
11-Sep-2023	<20.0	8.01	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
12-Sep-2023	<20.0	7.58	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
20-Sep-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
21-Sep-2023	<20.0	6.89	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
27-Sep-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
28-Sep-2023	<20.0	4.99	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
29-Sep-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
30-Sep-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 216
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	5.60	<0.1	<1.0	<1.0	0.9	BOL(QL=0.7)	BQL
06-Oct-2023	<20.0	5.53	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
11-Oct-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.2	BQUQL=0.7)	BQL
12-Oct-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
18-Oct-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
19-Oct-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
27-Oct-2023	<20.0	5.31	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
05-Oct-2023	<20.0	5.60	<0.1	<1.0	<1.0	0.9	BOL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 217
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
04-Nov-2023	<20.0	6.34	<0.1	<1.0	<1.0	1.2	BQL(Q _L =0.7)	BQL
13-Nov-2023	<20.0	5.02	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
14-Nov-2023	<20.0	5.78	<0.1	<1.0	<1.0	1.2	BQL(Q _L =0.7)	BQL
20-Nov-2023	<20.0	5.25	<0.1	<1.0	<1.0	1	BQL(Q _L =0.7)	BQL
21-Nov-2023	<20.0	3.97	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
27-Nov-2023	<20.0	4.65	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
28-Nov-2023	<20.0	4.25	<0.1	<1.0	<1.0	1.2	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 218
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
02-Dec-2023	<20.0	6.00	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
08-Dec-2023	<20.0	6.65	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
09-Dec-2023	<20.0	6.22	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BQL
15-Dec-2023	<20.0	7.56	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
16-Dec-2023	<20.0	7.80	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
22-Dec-2023	<20.0	7.74	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BQL
23-Dec-2023	<20.0	8.12	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
29-Dec-2023	<20.0	8.01	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
30-Dec-2023	<20.0	.55	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 219
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
04-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
10-Jan-2024	<20.0	8.65	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
11-Jan-2024	<20.0	8.35	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
18-Jan-2024	<20.0	9.01	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
19-Jan-2024	<20.0	4.56	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
24-Jan-2024	<20.0	5.32	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
25-Jan-2024	<20.0	5.74	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hours)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 220
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Feb-2024	<20.0	7.14	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
06-Feb-2024	<20.0	5.36	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
12-Feb-2024	<20.0	8.45	<0.1	<1.0	<1.0	0.9	BQUQL=0.7)	BQL
13-Feb-2024	<20.0	9.38	<0.1	<1.0	<1.0	0.6	BQUQL=0.7)	BQL
19-Feb-2024	<20.0	7.12	<0.1	<1.0	<1.0	0.5	BQUQL=0.7)	BQL
20-Feb-2024	<20.0	5.06	<0.1	<1.0	<1.0	0.8	BQUQL=0.7)	BQL
23-Feb-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.9	BQUQL=0.7)	BQL
24-Feb-2024	<20.0	8.11	<0.1	<1.0	<1.0	0.9	BQUQL=0.7)	BQL
28-Feb-2024	<20.0	10.34	<0.1	<1.0	<1.0	0.6	BQUQL=0.7)	BQL
29-Feb-2024	<20.0	11.36	<0.1	<1.0	<1.0	0.5	BQUQL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 221
Area: Basundhara

Project	Garjanbahal OCP							
Monitoring Station	Bihaimunda Village/ West of working face							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
02-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Mar-2024	<20.0	11.25	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Mar-2024	<20.0	10.47	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Mar-2024	<20.0	10.26	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
22-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
23-Mar-2024	<20.0	12.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 222
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023	<20.0	7.18	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(2 4hour s)	6.0(An nual)	20(Ann ual)	04(1h0. ours)	01(annu al)	05(ann ual)

Table: 223
Area: Basundhara

Project	Kulda OCP					
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)
25-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.3
24-May-23	<20.0	4.65	<0.1	<1.0	<1.0	0.2
19-May-23	<20.0	4.69	<0.1	<1.0	<1.0	0.2
18-May-23	<20.0	4.36	<0.1	<1.0	<1.0	0.2
11-May-23	<20.0	6.47	<0.1	<1.0	<1.0	0.1
10-May-23	<20.0	4.98	<0.1	<1.0	<1.0	0.3
05-May-23	<20.0	7.84	<0.1	<1.0	<1.0	0.2
04-May-23	<20.0	7.77	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20(Annual)	04 (1hours)

Table: 224
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-June-2023	<20.0	5.79	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
02-June-2023	<20.0	6.16	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
12-June-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.8	BQL(QL=0.5)	BQL(QL=2.5)
13-June-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
19-June-2023	<20.0	6.69	<0.1	<1.0	<1.0	0.9	BQL(QL=0.5)	BQL(QL=2.5)
20-June-2023	<20.0	6.18	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
23-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	1.3	BQL(QL=0.5)	BQL(QL=2.5)
24-June-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
29-June-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
30-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 225
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-July-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
12-July-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
13-July-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
19-July-2023	<20.0	4.64	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
20-July-2023	<20.0	5.57	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
26-July-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.7	BQL(QL=0.5)	BQL(QL=2.5)
27-July-2023	<20.0	4.28	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 226
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Aug-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
04-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-Aug-2023	<20.0	5.27	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-Aug-2023	<20.0	7.55	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
18-Aug-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
19-Aug-2023	<20.0	5.30	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
25-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
26-Aug-2023	<20.0	5.67	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 227
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
05-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
11-Sep-2023	<20.0	8.01	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
12-Sep-2023	<20.0	7.58	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
20-Sep-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
21-Sep-2023	<20.0	6.89	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
27-Sep-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
28-Sep-2023	<20.0	4.99	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
29-Sep-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
30-Sep-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 228
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	5.60	<0.1	<1.0	<1.0	0.9	BOL(QL=0.7)	BQL
06-Oct-2023	<20.0	5.53	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
11-Oct-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.2	BQUQL=0.7)	BQL
12-Oct-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
18-Oct-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
19-Oct-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
27-Oct-2023	<20.0	5.31	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
28-Oct-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 229
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
04-Nov-2023	<20.0	6.34	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
13-Nov-2023	<20.0	5.02	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
14-Nov-2023	<20.0	5.78	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
20-Nov-2023	<20.0	5.25	<0.1	<1.0	<1.0	1	BQL(Q L=0.7)	BQL
21-Nov-2023	<20.0	3.97	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
27-Nov-2023	<20.0	4.65	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
28-Nov-2023	<20.0	4.25	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 230
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
02-Dec-2023	<20.0	6.00	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
08-Dec-2023	<20.0	6.65	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
09-Dec-2023	<20.0	6.22	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BQL
15-Dec-2023	<20.0	7.56	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
16-Dec-2023	<20.0	7.80	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
22-Dec-2023	<20.0	7.74	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BQL
23-Dec-2023	<20.0	8.12	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
29-Dec-2023	<20.0	8.01	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
30-Dec-2023	<20.0	.55	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 231
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
04-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
10-Jan-2024	<20.0	8.65	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
11-Jan-2024	<20.0	8.35	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
18-Jan-2024	<20.0	9.01	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
19-Jan-2024	<20.0	4.56	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
24-Jan-2024	<20.0	5.32	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
25-Jan-2024	<20.0	5.74	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hours)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 232
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Feb-2024	<20.0	7.14	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
06-Feb-2024	<20.0	5.36	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
12-Feb-2024	<20.0	8.45	<0.1	<1.0	<1.0	0.9	BQUQL=0.7)	BQL
13-Feb-2024	<20.0	9.38	<0.1	<1.0	<1.0	0.6	BQUQL=0.7)	BQL
19-Feb-2024	<20.0	7.12	<0.1	<1.0	<1.0	0.5	BQUQL=0.7)	BQL
20-Feb-2024	<20.0	5.06	<0.1	<1.0	<1.0	0.8	BQUQL=0.7)	BQL
23-Feb-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.9	BQUQL=0.7)	BQL
24-Feb-2024	<20.0	8.11	<0.1	<1.0	<1.0	0.9	BQUQL=0.7)	BQL
28-Feb-2024	<20.0	10.34	<0.1	<1.0	<1.0	0.6	BQUQL=0.7)	BQL
29-Feb-2024	<20.0	11.36	<0.1	<1.0	<1.0	0.5	BQUQL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 233
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village/ South west of working face(Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
02-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Mar-2024	<20.0	11.25	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Mar-2024	<20.0	10.47	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Mar-2024	<20.0	10.26	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
22-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
23-Mar-2024	<20.0	12.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 234
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bihaimunda Village (Reported only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benze ne
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-Apr-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
12-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
13-Apr-2023	<20.0	7.18	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
19-Apr-2023	<20.0	7.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
20-Apr-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
26-Apr-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
27-Apr-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 235
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
25-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
24-May-23	<20.0	4.65	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
19-May-23	<20.0	4.69	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
18-May-23	<20.0	4.36	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
11-May-23	<20.0	6.47	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
10-May-23	<20.0	4.98	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
05-May-23	<20.0	7.84	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
04-May-23	<20.0	7.77	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
25-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
24-May-23	<20.0	4.65	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour s)	01(annual)	05(annual)

Table: 236
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.63	BQL(Q L=0.5)	BQL(Q L=2.5)
02-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BQL(Q L=2.5)
12-June-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
13-June-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
19 -June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
20-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
23-June-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BQL(Q L=2.5)
24-June-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
29-June-2023	<20.0	7.42	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
30-June-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 237
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
05-July-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
06-July-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
12-July-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
13-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-July-2023	<20.0	4.28	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
20-July-2023	<20.0	4.64	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-July-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
27-July-2023	<20.0	7.04	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1h ours)	01(annual)	05(annual)

Table: 238
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Aug-2023	<20.0	5.18	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Aug-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Aug-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Aug-2023	<20.0	5.28	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Aug-2023	<20.0	5.77	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24 hours)	6.0(An nual)	20(An nual)	04(1h ours)	01(ann ual)	05(annu al)

Table: 239
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	5.58	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	7.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	7.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Sep-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
28-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
29-Sep-2023	<20.0	6.54	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
30-Sep-2023	<20.0	6.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 240
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Oct-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.4	BQUQL =0.7)	BQL
06-Oct-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.5	BQUQL =0.7)	SQL
11-Oct-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
12-Oct-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.3	BQUQL =0.7)	BQL
18-Oct-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQUQL =0.7)	BQL
19-Oct-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.5	BQUQL =0.7)	BQL
27-Oct-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
28-Oct-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour s)	01(annual)	05(annual)

Table: 241
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Nov-2023	<20.0	5.41	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
04-Nov-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
13-Nov-2023	<20.0	5.45	<0.1	<1.0	<1.0	1	BQL(Q L=0.7)	BQL
14-Nov-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
20-Nov-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
21-Nov-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Nov-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
28-Nov-2023	<20.0	6.05	<0.1	<1.0	<1.0	1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour s)	01(annual)	05(annual)

Table: 242
Area: Basundhara

Project	Kulda OCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Dec-2023	<20.0	7.85	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
02-Dec-2023	<20.0	7.55	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
08-Dec-2023	<20.0	7.87	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
09-Dec-2023	<20.0	8.23	<0.1	<1.0	<1.0	1.3	BQL(Q L=0.7)	BQL
15-Dec-2023	<20.0	8.12	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BQL
16-Dec-2023	<20.0	7.15	<0.1	<1.0	<1.0	1.1	BQL(Q L=0.7)	BQL
22-Dec-2023	<20.0	7.63	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
23-Dec-2023	<20.0	7.12	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
29-Dec-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
30-Dec-2023	<20.0	8.02	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 243
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Jan-2024	<20.0	6.01	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	5.44	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	6.22	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	5.84	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	5.60	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	5.51	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	6.32	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	5.88	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 244
Area: Basundhara

Project	KuldaOCP							
Monitoring Station	Bilaimunda Village							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-Feb-2024	<20.0	8.64	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
06-Feb-2024	<20.0	5.37	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
12-Feb-2024	<20.0	6.68	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
13-Feb-2024	<20.0	7.60	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
19-Feb-2024	<20.0	4.63	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
20-Feb-2024	<20.0	9.34	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
23-Feb-2024	<20.0	5.22	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
24-Feb-2024	<20.0	6.67	<0.1	<1.0	<1.0	1.1	BQL(QL=0.7)	BQL
28-Feb-2024	<20.0	8.21	<0.1	<1.0	<1.0	0.8	BQUQL=0.7)	BQL
29-Feb-2024	<20.0	10.35	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 245
Area: Basundhara

<i>Project</i>	KuldaOCP							
<i>Monitoring Station</i>	Bilaimunda Village							
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Mar-2024	<20.0	14.56	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
02-Mar-2024	<20.0	15.66	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
11-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
18-Mar-2024	<20.0	14.58	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Mar-2024	<20.0	15.77	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
22-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
23-Mar-2024	<20.0	16.34	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 246
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023	<20.0	7.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023	<20.0	8.12	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023	<20.0	8.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023	<20.0	5.81	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023	<20.0	5.74	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023	<20.0	5.68	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24h hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hour)	01(annual)	05(annual)

Table: 247
Area: Orient

Project	HBI Mine					
Monitoring Station	Rampur Officers Guest House					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)
30-May-23	<20.0	5.32	<0.1	<1.0	<1.0	0.3
29-May-23	<20.0	6.32	<0.1	<1.0	<1.0	0.3
23-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.2
22-May-23	<20.0	4.62	<0.1	<1.0	<1.0	0.1
09-May-23	<20.0	5.62	<0.1	<1.0	<1.0	0.3
08-May-23	<20.0	4.31	<0.1	<1.0	<1.0	0.1
03-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.3
02-May-23	<20.0	6.12	<0.1	<1.0	<1.0	0.3
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 248
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
06-June-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.8	BQL(QL=0.5)	BQL(QL=2.5)
14-June-2023	<20.0	5.93	<0.1	<1.0	<1.0	0.8	BQL(QL=0.5)	BQL(QL=2.5)
15-June-2023	<20.0	6.19	<0.1	<1.0	<1.0	1	BQL(QL=0.5)	BQL(QL=2.5)
21-June-2023	<20.0	6.42	<0.1	<1.0	<1.0	0.9	BQL(QL=0.5)	BQL(QL=2.5)
22-June-2023	<20.0	6.14	<0.1	<1.0	<1.0	0.7	BQL(QL=0.5)	BQL(QL=2.5)
27-June-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.7	BQL(QL=0.5)	BQL(QL=2.5)
28-June-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.7	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 249
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BDL
04-July-2023	<20.0	7.35	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BDL
10-July-2023	<20.0	4.87	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BDL
11-July-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BDL
17-July-2023	<20.0	4.87	<0.1	<1.0	<1.0	0.4	BQL(Q _L =0.7)	BDL
18-July-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BDL
24-July-2023	<20.0	5.97	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BDL
25-July-2023	<20.0	5.33	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BDL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 250
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BDL
02-Aug-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BDL
07-Aug-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.5)	BDL
08-Aug-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BDL
16-Aug-2023	<20.0	7.59	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BDL
17-Aug-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.5)	BDL
23-Aug-2023	<20.0	4.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BDL
24-Aug-2023	<20.0	6.67	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BDL
29-Aug-2023	<20.0	4.35	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BDL
30-Aug-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BDL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 251
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	5.48	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.90	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 252
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
04-Oct-2023	<20.0	6.53	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
09-Oct-2023	<20.0	4.49	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Oct-2023	<20.0	7.11	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
16-Oct-2023	<20.0	8.81	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
17-Oct-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
25-Oct-2023	<20.0	6.61	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
26-Oct-2023	<20.0	7.22	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 253
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.45	<0.1	<1.0	<1.0	07	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	5.07	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	8.01	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	5.34	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	5.26	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
29-Nov-2023	<20.0	5.74	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Nov-2023	<20.0	6.33	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 254
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	6.65	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	6.69	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	7.04	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	7.77	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	6.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	5.75	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	6.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 255
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	6.88	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	8.45	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	5.22	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	7.05	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	6.44	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	9.63	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	5.61	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	8.02	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 256
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	5.67	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	8.64	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	5.99	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	5.84	<0.1	<1.0	<1.0	1.0	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	10.36	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	11.28	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
01-Feb-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	5.67	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 257
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Officers Guest House							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
08-Mar-2024	<20.0	15.32	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
14-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
15-Mar-2024	<20.0	14.63	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
20-Mar-2024	<20.0	11.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Mar-2024	<20.0	13.67	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
28-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 258
Area: Orient
All values are in $\mu\text{g}/\text{m}^3$

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
03-Apr-2023	<20.0	7.33	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
04-Apr-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
10-Apr-2023	<20.0	7.08	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL =2.5)
11-Apr-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
17-Apr-2023	<20.0	5.83	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
18-Apr-2023	<20.0	5.75	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
24-Apr-2023	<20.0	4.92	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
25-Apr-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL =2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(11 hours)	01(annual)	05(annual)

Table: 259

Area: Orient*All values are in $\mu\text{g}/\text{m}^3$*

Project	HBI Mine					
Monitoring Station	Rampur Sub Area					
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)
30-May-23	<20.0	5.25	<0.1	<1.0	<1.0	0.2
29-May-23	<20.0	4.62	<0.1	<1.0	<1.0	0.1
23-May-23	<20.0	5.94	<0.1	<1.0	<1.0	0.3
22-May-23	<20.0	5.97	<0.1	<1.0	<1.0	0.2
17-May-23	<20.0	3.97	<0.1	<1.0	<1.0	0.1
16-May-23	<20.0	4.29	<0.1	<1.0	<1.0	0.2
09-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.3
08-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.1
03-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.3
02-May-23	<20.0	6.21	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (11hours)

Table: 260
Area: Orient
All values are in $\mu\text{g}/\text{m}^3$

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	(mg/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
05-June-2023	<20.0	5.72	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
06-June-2023	<20.0	6.17	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
14-June-2023	<20.0	5.90	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(QL =2.5)
15-June-2023	<20.0	5.19	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
21-June-2023	<20.0	6.99	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(QL =2.5)
22-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
27-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
28-June-2023	<20.0	6.88	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(QL =2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 261
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	3.91	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-July-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
11-July-2023	<20.0	4.25	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-July-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
18-July-2023	<20.0	7.04	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-July-2023	<20.0	5.60	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-July-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 262
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	6.04	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	5.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
29-Aug-2023	<20.0	5.40	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
30-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 263

Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	5.27	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	5.61	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 264
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.6	BQL(QI=0.7)	BQL
04-Oct-2023	<20.0	6.02	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
09-Oct-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
10-Oct-2023	<20.0	5.59	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
16-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
17-Oct-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL
25-Oct-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.8	BQL(QL=0.7)	BQL
26-Oct-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 265
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Nov-2023	<20.0	5.24	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
09-Nov-2023	<20.0	8.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Nov-2023	<20.0	5.68	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
16-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
17-Nov-2023	<20.0	5.30	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
24-Nov-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
25-Nov-2023	<20.0	4.60	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
29-Nov-2023	<20.0	8.68	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Nov-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 266

Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
04-Dec-2023	<20.0	8.65	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	8.23	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	6.36	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	6.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	5.95	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	4.95	<0.1	<1.0	<1.0	1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hour)	01(annual)	05(annual)

Table: 267
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	6.70	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	6.49	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	8.02	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	4.68	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	7.06	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	5.84	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	4.66	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.04	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	5.55	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 268
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	12.32	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
02-Feb-2024	<20.0	14.20	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	9.47	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	6.34	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	5.87	<0.1	<1.0	<1.0	1.2	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	8.62	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	4.67	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	10.45	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 269
Area: Orient

Project	HBI Mine							
Monitoring Station	Rampur Sub Area							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-Mar-2024	<20.0	13.25	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
08-Mar-2024	<20.0	15.21	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
14-Mar-2024	<20.0	16.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
15-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
20-Mar-2024	<20.0	13.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-Mar-2024	<20.0	14.20	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
27-Mar-2024	<20.0	10.36	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
28-Mar-2024	<20.0	12.30	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 270
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023	<20.0	6.83	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023	<20.0	7.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023	<20.0	6.53	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023	<20.0	5.41	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023	<20.0	5.16	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023	<20.0	6.10	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 271

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
23-May-23	<20.0	4.65	<0.1	<1.0	<1.0	0.2	BQL(QL =0.5)	BQL(QL =2.5)
22-May-23	<20.0	5.42	<0.1	<1.0	<1.0	0.1	BQL(QL =0.5)	BQL(QL =2.5)
17-May-23	<20.0	4.16	<0.1	<1.0	<1.0	0.2	BQL(QL =0.5)	BQL(QL =2.5)
16-May-23	<20.0	4.12	<0.1	<1.0	<1.0	0.2	BQL(QL =0.5)	BQL(QL =2.5)
09-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(QL =0.5)	BQL(QL =2.5)
08-May-23	<20.0	5.78	<0.1	<1.0	<1.0	0.2	BQL(QL =0.5)	BQL(QL =2.5)
03-May-23	<20.0	6.66	<0.1	<1.0	<1.0	0.1	BQL(QL =0.5)	BQL(QL =2.5)
02-May-23	<20.0	6.14	<0.1	<1.0	<1.0	0.3	BQL(QL =0.5)	BQL(QL =2.5)
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (hours)	01(annual)	05(annual)

Area: Orient

Table: 272

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
05-June-2023	<20.0	5.84	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
06-June-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
14-June-2023	<20.0	6.03	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
15-June-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
21-June-2023	<20.0	6.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
22-June-2023	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
27-June-2023	<20.0	8.15	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
28-June-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Area: Orient

Table: 273
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-July-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-July-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-July-2023	<20.0	4.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-July-2023	<20.0	5.94	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-July-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-July-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-July-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-July-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
29-July-2023	<20.0	4.38	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
31-July-2023	<20.0	4.5	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 274
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Aug-2023	<20.0	5.01	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
07-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
08-Aug-2023	<20.0	5.24	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
16-Aug-2023	<20.0	7.50	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
17-Aug-2023	<20.0	7.15	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
23-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
24-Aug-2023	<20.0	6.66	<0.1	<1.0	<1.0	0.6	BQL(QL=0.5)	BQL(QL=2.5)
01-Aug-2023	<20.0	5.01	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 275
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
02-Sep-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.1	BQL(Q _L =0.7)	BQL
08-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
09-Sep-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
18-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
19-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
25-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.2	BQL(Q _L =0.7)	BQL
26-Sep-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 276
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
03-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.8	BQL(Q _L =0.7)	BQL
04-Oct-2023	<20.0	6.22	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
09-Oct-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.5	BQL(Q _L =0.7)	BQL
10-Oct-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
16-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.6	BQL(Q ₁ =0.7)	BQL
17-Oct-2023	<20.0	6.12	<0.1	<1.0	<1.0	0.8	BQL(Q ₁ =0.7)	BQL
25-Oct-2023	<20.0	6.17	<0.1	<1.0	<1.0	0.8	BQL(Q ₁ =0.7)	BQL
26-Oct-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
30-Oct-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
31 -Oct-2023	<20.0	6.22	<0.1	<1.0	<1.0	0.6	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 277

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Nov-2023	<20.0	4.22	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
02-Nov-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
09-Nov-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
10-Nov-2023	<20.0	5.38	<0.1	<1.0	<1.0	1	BQL(Q _L =0.7)	BQL
16-Nov-2023	<20.0	7.45	<0.1	<1.0	<1.0	1.1	BQL(Q _L =0.7)	BQL
17-Nov-2023	<20.0	6.31	<0.1	<1.0	<1.0	1.4	BQL(Q _L =0.7)	BQL
24-Nov-2023	<20.0	5.05	<0.1	<1.0	<1.0	1.2	BQL(Q _L =0.7)	BQL
25-Nov-2023	<20.0	7.06	<0.1	<1.0	<1.0	1.3	BQL(Q _L =0.7)	BQL
01-Nov-2023	<20.0	4.22	<0.1	<1.0	<1.0	0.9	BQL(Q _L =0.7)	BQL
02-Nov-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.7	BQL(Q _L =0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Area: Orient

Table: 278
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(µg/m ³)
04-Dec-2023	<20.0	4.45	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
05-Dec-2023	<20.0	4.85	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
11-Dec-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Dec-2023	<20.0	4.46	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
18-Dec-2023	<20.0	5.51	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Dec-2023	<20.0	4.75	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
26-Dec-2023	<20.0	5.53	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
27-Dec-2023	<20.0	5.66	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 279
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Jan-2024	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
02-Jan-2024	<20.0	6.33	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-Jan-2024	<20.0	7.77	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
09-Jan-2024	<20.0	8.25	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
16-Jan-2024	<20.0	6.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
17-Jan-2024	<20.0	6.32	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
22-Jan-2024	<20.0	4.08	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
23-Jan-2024	<20.0	7.06	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
30-Jan-2024	<20.0	5.44	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
31-Jan-2024	<20.0	6.18	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 280
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
01-Feb-2024	<20.0	6.40	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	. BQL
02-Feb-2024	<20.0	7.54	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
07-Feb-2024	<20.0	6.18	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-Feb-2024	<20.0	5.94	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	6.08	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	6.74	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
26-Feb-2024	<20.0	5.99	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Feb-2024	<20.0	9.14	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Table: 281
Area: Orient

Project	Orient Mine No.2							
Monitoring Station	VIP Guest House, IB Valley (Reported Only)							
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzene
	(μg/m ³)	(μg/m ³)	(μg/m ³)	(ng/m ³)	(ng/m ³)	(mg/m ³)	(ng/m ³)	(μg/m ³)
07-March-2024	<20.0	12.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
08-March-2024	<20.0	15.22	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
14-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
15-March-2024	<20.0	14.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
20-March-2024	<20.0	10.20	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-March-2024	<20.0	11.36	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-March-2024	<20.0	14.25	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
28-March-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1 hours)	01(annual)	05(annual)

Half Yearly Heavy Metal Data

Area: IB Valley

Table: 282

Project	Samleswari OCP				
Monitoring Station	West of the Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
03-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
20-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 283

Project	Samleswai OCP				
Monitoring Station	South of the Mine				
Ozone (O ₃) (µg/m3)	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
03-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
20-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
180(hour)	6.0(Annual)	20(Annual)	-	-	-

Table: 284

Project	Samleswari OCP				
Monitoring Station	East of the Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
03-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
20-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 285

Project	Samleswari OCP				
Monitoring Station	South-East of the Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
03-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
20-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 286

Project	Lajkura OCP				
Monitoring Station	Near Project Office				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
03-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
20-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 287

Project	Lajkura OCP				
Monitoring Station	Near South Coal Stock				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
03-Jun-2023/710	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023/876	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
20-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Area: Lakhanpur

Table: 288

Project	Lilari OCP				
Monitoring Station	Near Lilari Magazine House				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
07-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
21-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 289

Project	Lakhanpur OCP				
Monitoring Station	Near Lilari Nallah Pump House				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
07-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
21-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 290

Project	Lakhanpur OCP				
Monitoring Station	Near Quarry 3				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
07-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
21-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 291

Project	Belpahar OCP				
Monitoring Station	Near Magazine House				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
07-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
21-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

**Table: 292**

Project	Belpahar OCP				
Monitoring Station	Near Central Workshop				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
07-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
21-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0 (Annual)	20 (Annual)	-	-	-

Area: Mahalaxmi**Table: 293**

Project	Basundhara (W) OCP				
Monitoring Station	North of the Sardega Railway Siding				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 294

Project	Basundhara (W) OCP				
Monitoring Station	West of Coal Stock				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 295

Project	Basundhara (W) OCP				
Monitoring Station	South West of Working face Gopalpur Village, Near CMPDI Camp				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Area: Basundhara

Table: 296

Project	Kulda OCP				
Monitoring Station	External CT Road				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 297

Project	Garjanbahal OCP				
Monitoring Station	KAN-1 Near Coal Sampling Lab				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 298

Project	Garjanbahal OCP				
Monitoring Station	Karlikachar Village				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 299

Project	Garjanbahal OCP				
Monitoring Station	Garjanbahal village				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
26-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Area: Orient**Table: 300**

Project	Orient Mine No. 1 & 2				
Monitoring Station	Orient Mine No.2				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
09-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
31-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 301

Project	Orient Mine No. 3				
Monitoring Station	Orient Mine No. 3				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
09-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
30-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
31-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 302

Project	HBI Mine				
Monitoring Station	HBI Mine				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m3)	(ng/m3)	(ng/m3)	(µg/m3)	(µg/m3)
09-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
30-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
31-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 303

<i>Project</i>	HBI Mine				
<i>Monitoring Station</i>	Bundia Colony Pump House				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
09-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
31-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 304

<i>Project</i>	Orient Mine No. 4				
<i>Monitoring Station</i>	Orient Mine No. 4				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
09-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
31-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

EFFLUENT QUALITY

SECTION 9: WATER ANALYSIS REPORT

9.1: CONCEPT & SCOPE

The Water quality of the project area plays an important role on the socio economy of the Project. The higher concentrations of the water pollutants have serious impacts on the environment. Hence, it becomes important to assess the water quality periodically in the project vicinity.

Keeping this in the mind, different types of water samples viz, Drinking Water Sample from village wells, Surface Water Sample from Ib River & its tributaries (Up-Stream & Down-Stream), Ponds and Effluent water sample from OCP mine sump water & domestic & effluent treatment plants were collected. Well water level was measured quarterly. Qualitative & quantitative analysis of samples from piezometers was also done.

The quality of drinking water samples were compared with respect to IS 10500:2012 specification & the surface water quality was compared with respect to IS 2296: 1982 Class-C and found that the concentration of the target analysts are within the prescribed limits.

Bacterial examination was also carried out to find out the Coliform contamination at water sources.



Figure 9. Water sampling at Mine Sump



Figure 9. Water sampling at reservoir



Figure 9. Water sampling at village

9.2.1 EFFLUENT WATER ANALYTICAL RESULTS

Table:9.1

Area: Ib valley

Project: Samleswari OCP

Monitoring station: Inlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
09-May-23	7.12	<4.0	46	32
10-Aug-23	6.72	<4.0	64	40
13-Nov-23	6.67	<4.0	38	32
12-Feb-24	7.24	<4.0	44	32

(All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

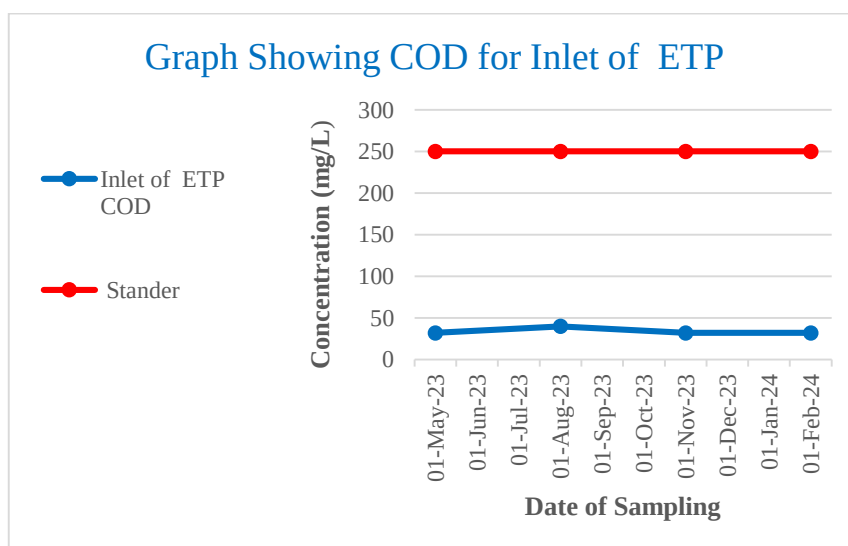
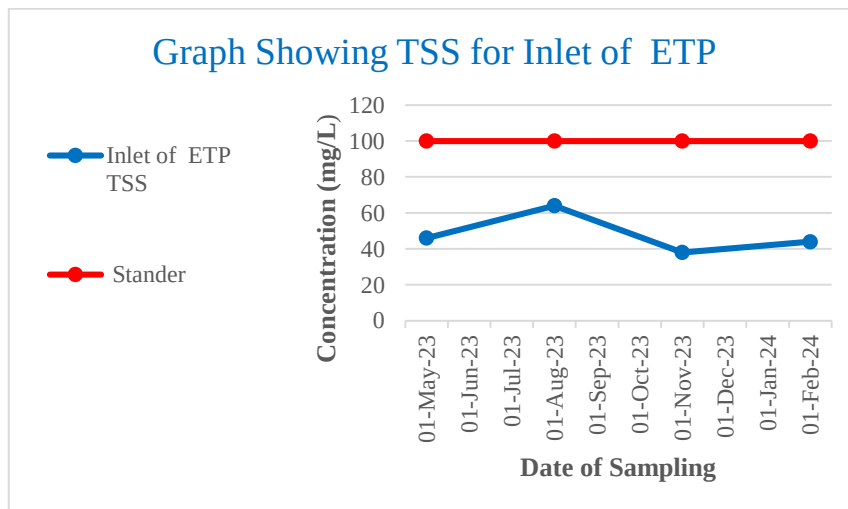
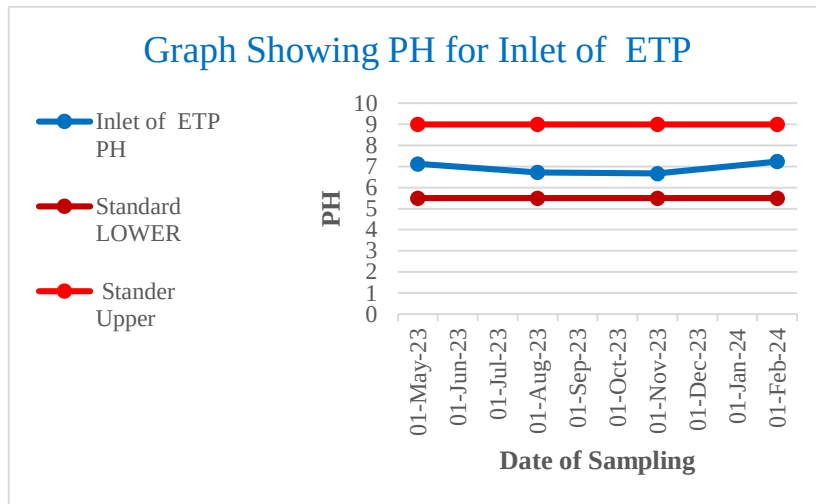


Table:9.2

Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** Outlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
09-May-23	7.64	<4.0	28	24
10-Aug-23	6.86	<4.0	34	36
13-Nov-23	6.79	<4.0	22	16
12-Feb-24	7.39	<4.0	34	24

(All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

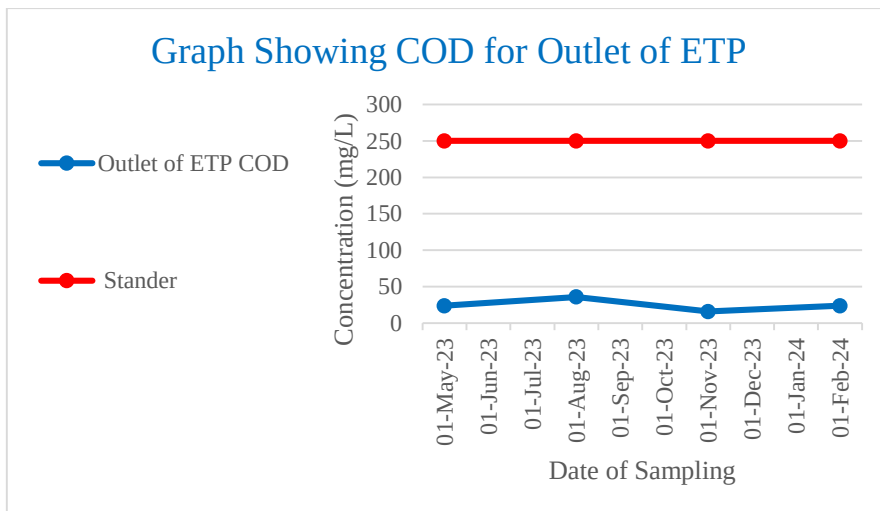
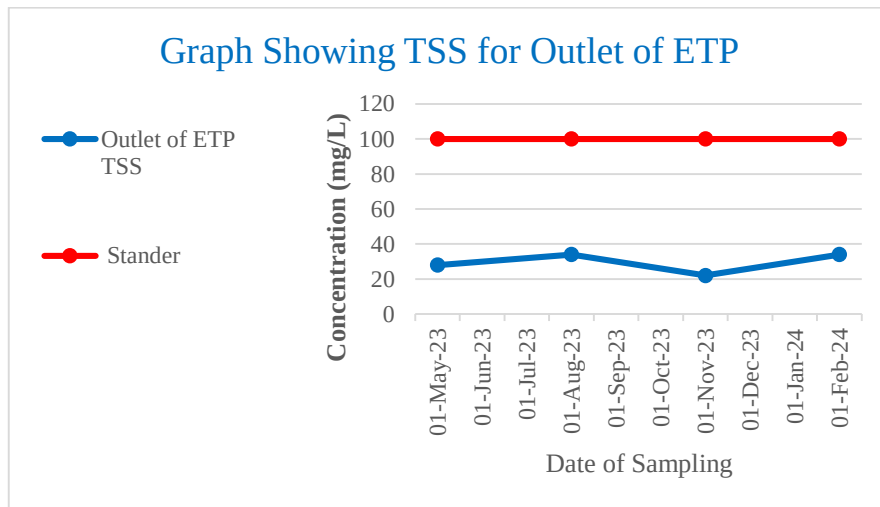


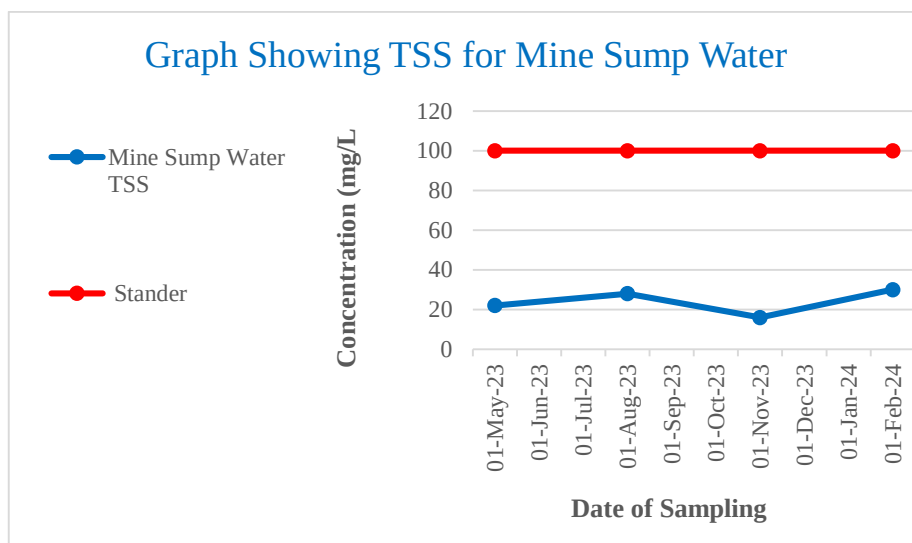
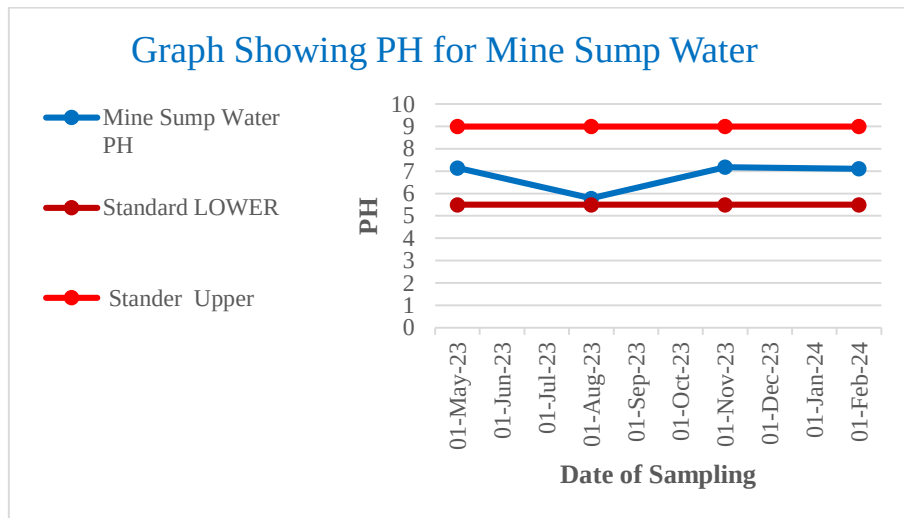
Table:9.3

Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
09-May-23	7.14	<4.0	22	20
10-Aug-23	5.78	<4.0	28	20
13-Nov-23	7.18	<4.0	16	12
12-Feb-24	7.11	<4.0	30	20

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



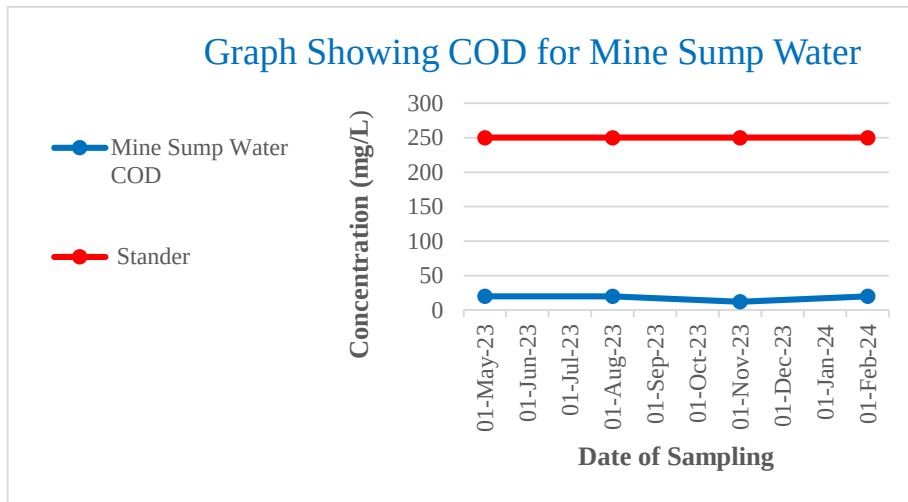


Table:9.4

Area: Ib valley**Project:** Samleswari OCP**Monitoring station STP Inlet**

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-Apr-23	7.41	44	<2	2.2
12-Jul-23	7.76	18	<2	34
11-Oct-23	7.38	28	<2	63
10-Jan-24	6.72	48	<2	210

All values are in mg/L except p H & FC (MPN/100 mL))

	pH	TSS	BOD	MPN/100mL
G.S.R. 126 5 € Effluent discharge standards (applicable to all mode of disposal) Sewage Treatment Plants (STPs)	6.5-9.5	<100	30	<1000

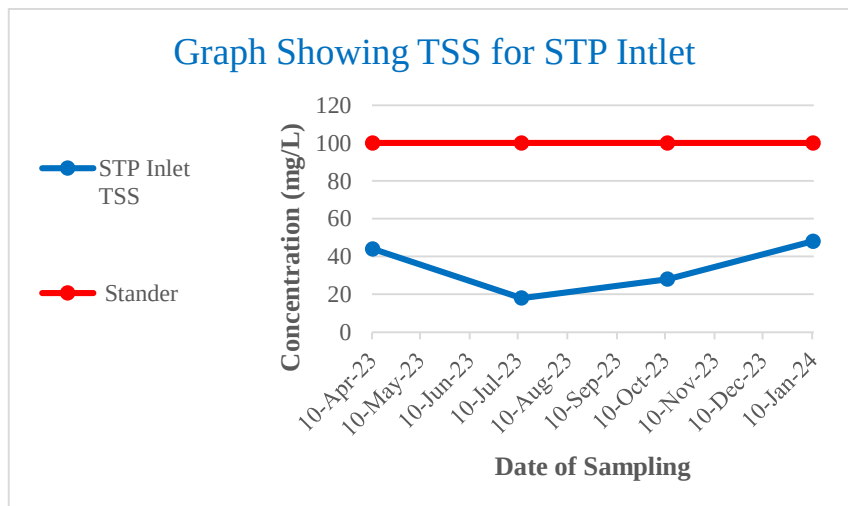
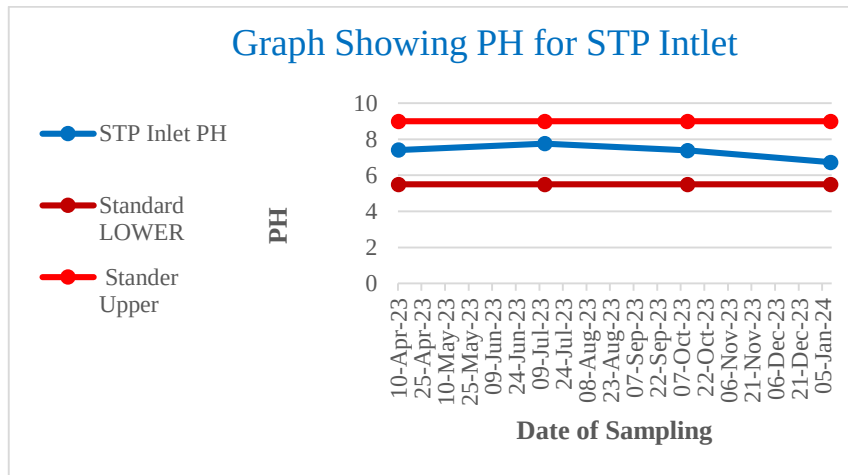


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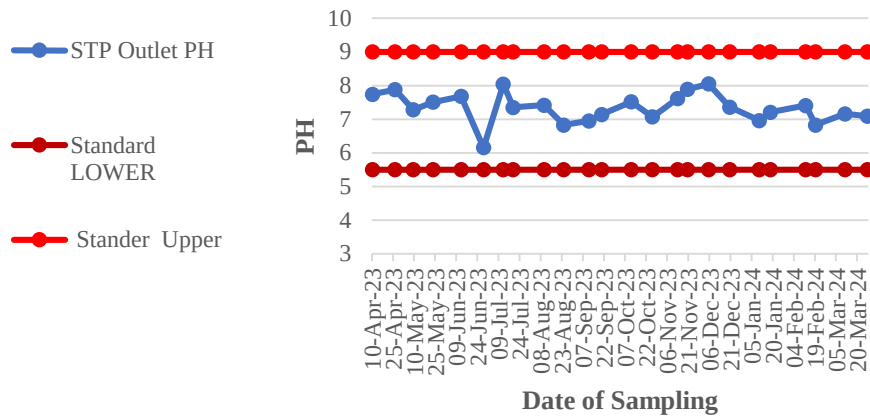
Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** STP Outlet

Date of Sampling	pH	TSS	BOD	MPN
10-Apr-23	7.74	30	<2	1.1
26-Apr-23	7.88	36	<2	1.1
09-May-23	7.28	36	<2	1.1MPN FC /100 mL
23-May-23	7.51	30	<2	1.8 MPN FC /100 ml
12-Jun-23	7.68	24	<2	17
28-Jun-23	6.16	22	<2	20
12-Jul-23	8.04	22	<2	22
19-Jul-23	7.35	42	<2	26
10-Aug-23	7.42	78	<2	34
24-Aug-23	6.83	46	<2	40
11-Sep-23	6.95	22	<2	43
20-Sep-23	7.14	26	<2	44
11-Oct-23	7.52	20	<2	43
26-Oct-23	7.07	24	<2	46
13-Nov-23	7.62	28	<2	49
20-Nov-23	7.89	36	<2	46
05-Dec-23	8.05	30	<2	41
20-Dec-23	7.36	36	<2	47
10-Jan-24	6.96	30	<2	58
18-Jan-24	7.21	38	<2	63
12-Feb-24	7.41	30	<2	32
19-Feb-24	6.83	28	<2	38
11-Mar-24	7.16	22	<2	43
27-Mar-24	7.09	30	<2	46

All values are in mg/L except p H & FC (MPN/100 mL))

	pH	TSS	BOD	MPN/100mL
G.S.R. 126 5 € Effluent discharge standards (applicable to all mode of disposal) Sewage Treatment Plants (STPs)	6.5-9.5	<100	30	<1000

Graph Showing PH STP Outlet



Graph Showing TSS STP Outlet

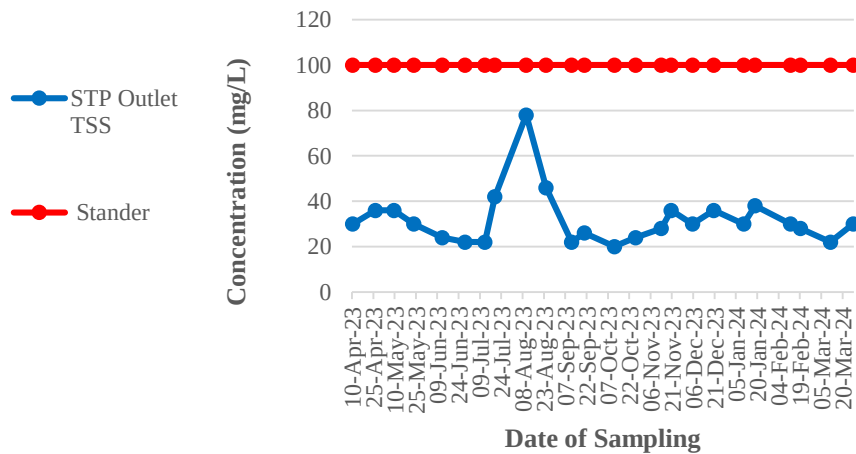


Table:9.6

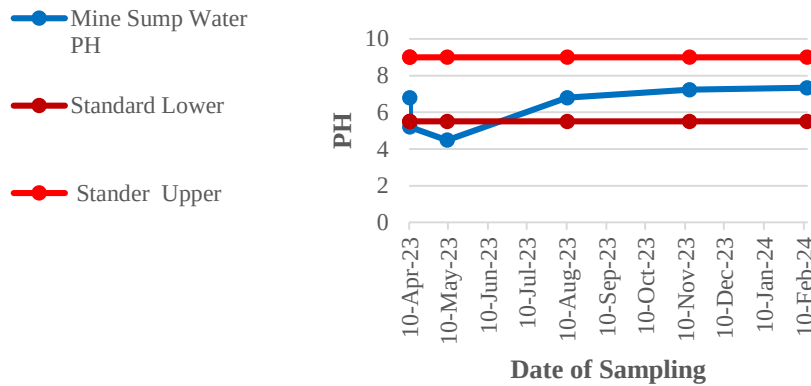
Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	6.79	<4.0	28	12
10-Apr-23	5.2	-	-	-
09-May-23	4.48	<4.0	26	20
10-Aug-23	6.79	<4.0	28	12
13-Nov-23	7.23	<4.0	20	8
12-Feb-24	7.33	<4.0	34	36

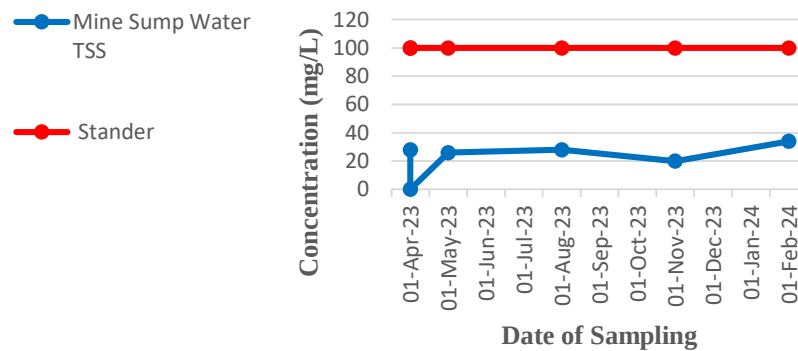
All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Mine Sump Water



Graph Showing for TSS of Mine Sump Water



Graph Showing for COD of Mine Sump Water

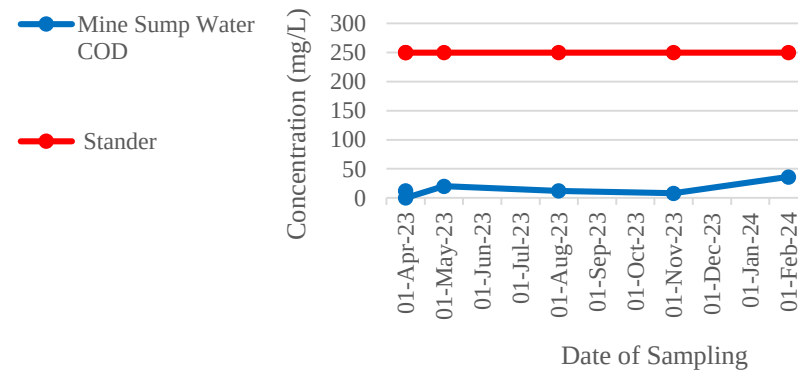


Table:9.7

Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Inlet of MDTP

Date of Sampling	pH	Oil & Grese	TSS	COD
09-May-23	4.62	<4.0	38	28
10-Aug-23	6.86	<4.0	38	28
13-Nov-23	7.26	<4.0	54	36
12-Feb-24	7.39	<4.0	52	32

All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and	pH	Oil & Grease	TSS	COD	BOD

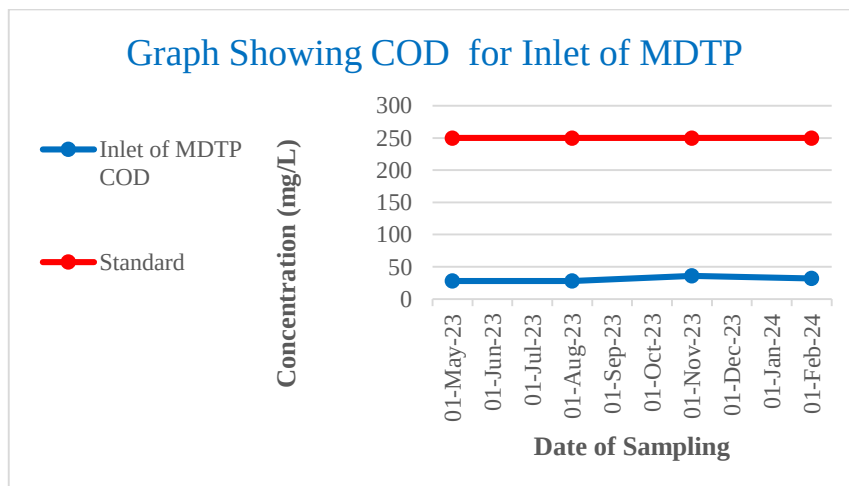
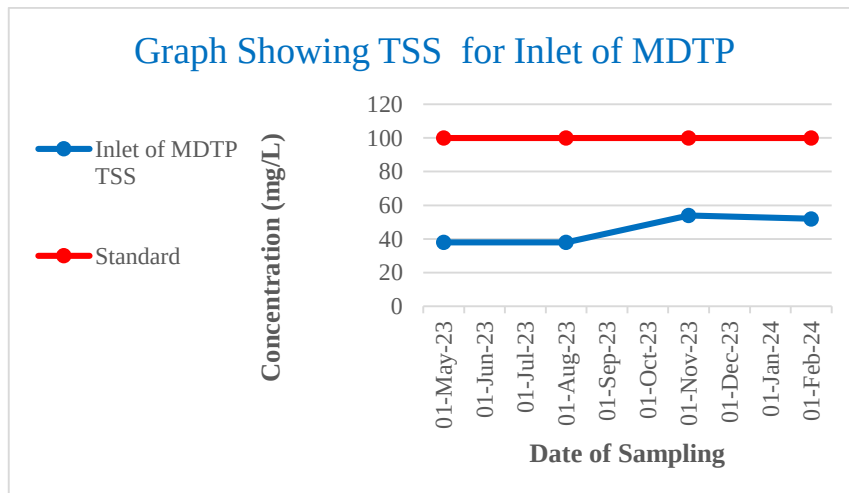
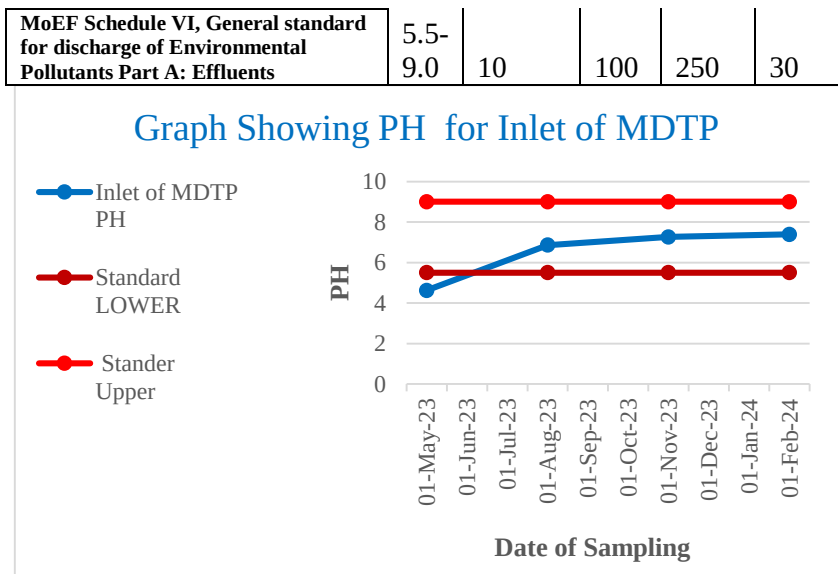


Table:9.8

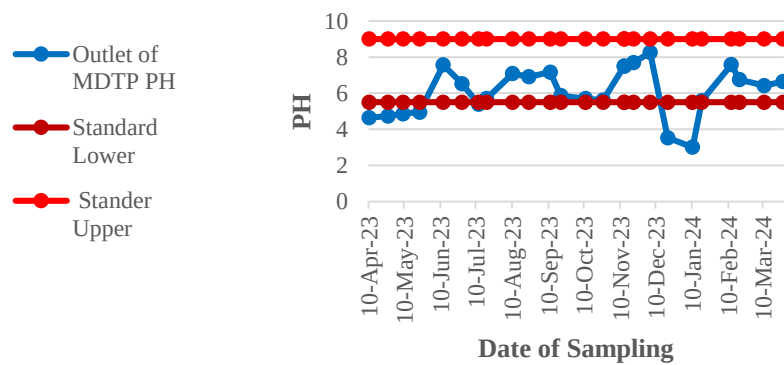
Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Outlet of MDTP

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	4.64	<4.0	36	24
26-Apr-23	4.74	<4.0	42	32
09-May-23	4.86	<4.0	28	16
23-May-23	4.95	<4.0	32	28
12-Jun-23	7.56	<4.0	20	16
28-Jun-23	6.53	<4.0	48	24
12-Jul-23	5.38	<4.0	26	16
19-Jul-23	5.71	<4.0	48	32
10-Aug-23	7.08	<4.0	30	20
24-Aug-23	6.91	<4.0	42	24
11-Sep-23	7.16	<4.0	18	28
20-Sep-23	5.86	<4.0	46	36
11-Oct-23	5.7	<4.0	32	36
26-Oct-23	5.61	<4.0	28	32
13-Nov-23	7.49	<4.0	42	20
21-Nov-23	7.69	<4.0	30	28
05-Dec-23	8.26	<4.0	34	24
20-Dec-23	3.53	<4.0	48	32
10-Jan-24	3.01	<4.0	56	48
18-Jan-24	5.59	<4.0	48	36
12-Feb-24	7.58	<4.0	38	28
19-Feb-24	6.75	<4.0	24	12
11-Mar-24	6.42	<4.0	28	12
27-Mar-24	6.64	<4.0	34	36

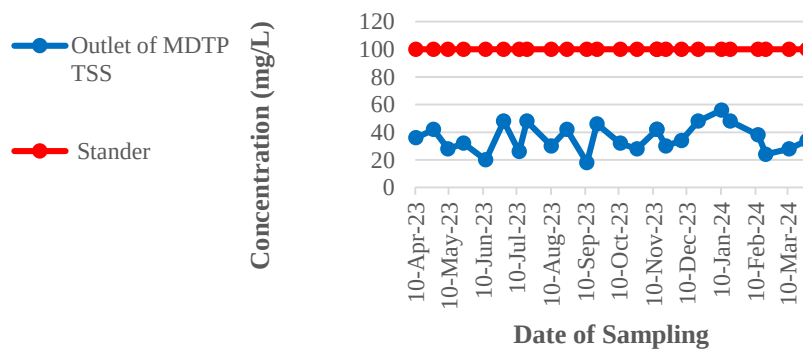
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Outlet of MDTP



Graph Showing for TSS of Outlet of MDTP



Graph Showing for COD of Outlet of MDTP

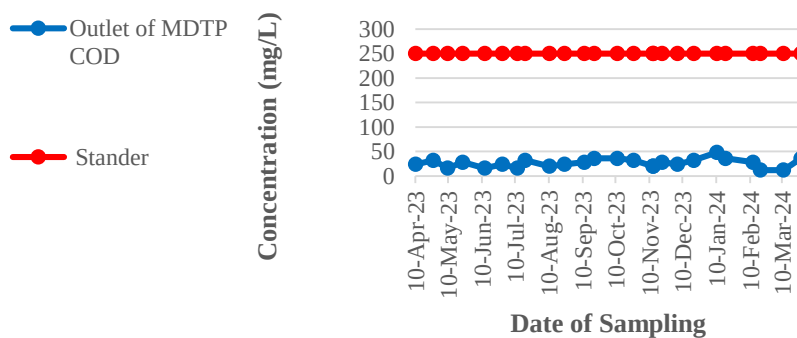


Table:9.9

Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Inlet of ETP

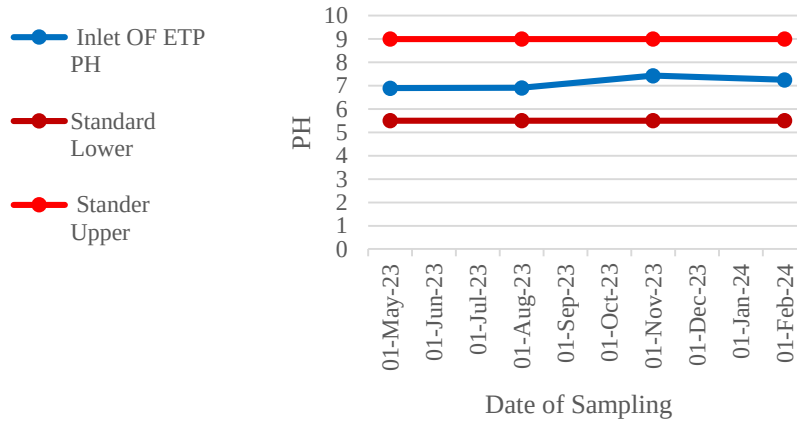
Date of Sampling	pH	Oil & Grease	TSS	COD
09-May-23	6.89	<4.0	68	40
10-Aug-23	6.91	4.8	138	60
13-Nov-23	7.43	<4.0	58	40
12-Feb-24	7.25	<4.0	88	48

All values are in mg/L except pH & FC (MPN/100 mL))

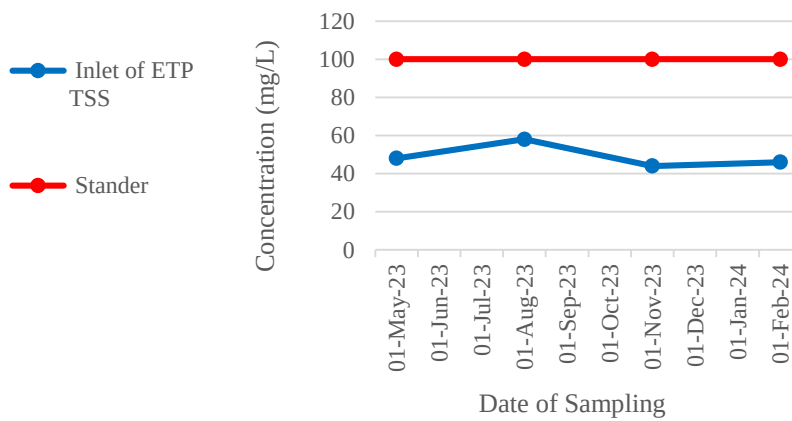
MoEF&CC Standard Notification dated 25th September, 2000 and	pH	Oil & Grease	TSS	COD	BOD

MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	5.5-				
	9.0	10	100	250	30

Graph Showing for PH of Inlet of ETP



Graph Showing for TSS of Inlet of ETP



Graph Showing for COD of Inlet of ETP

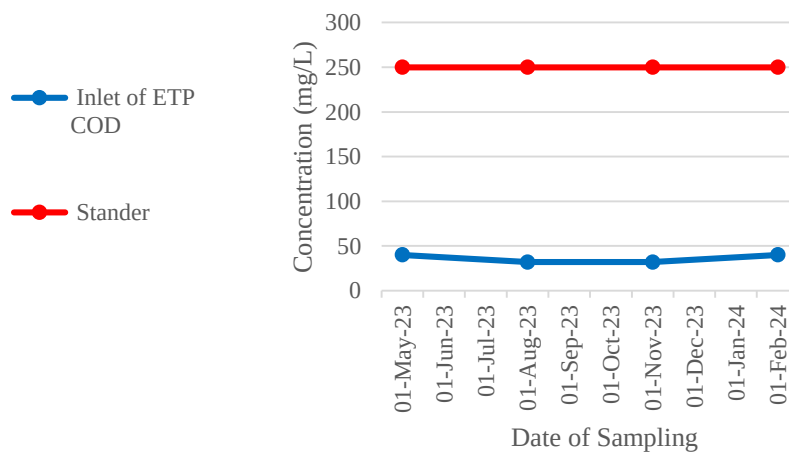


Table:9.10

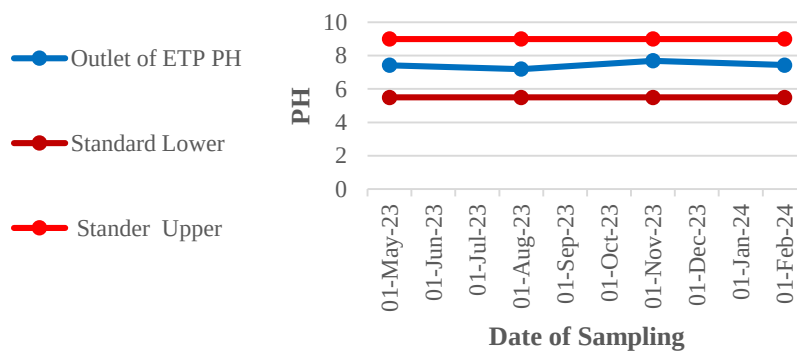
Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Outlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
09-May-23	7.42	<4.0	32	36
10-Aug-23	7.19	4.2	108	48
13-Nov-23	7.69	<4.0	34	24
12-Feb-24	7.43	<4.0	40	36

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

All values are in mg/L except pH & FC (MPN/100 mL))

Graph Showing for PH of Outlet of ETP



Graph Showing for TSS of Outlet of ETP

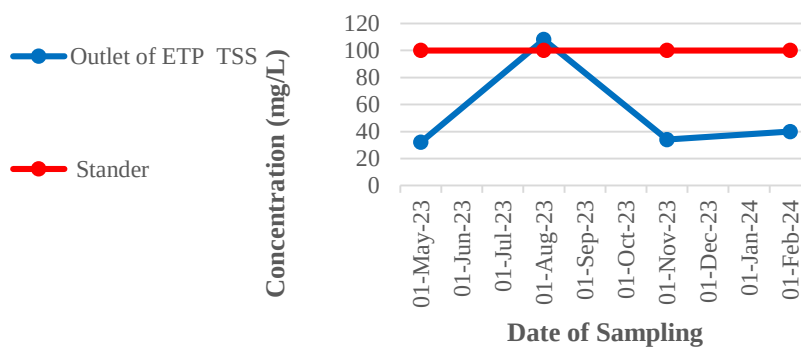


Table:9.11

Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** STP Inlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-Apr-23	6.89	40	<2	9.2
12-Jul-23	5.43	42	<2	34
11-Oct-23	6.86	34	<2	70
10-Jan-24	6.91	42	<2	280

All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

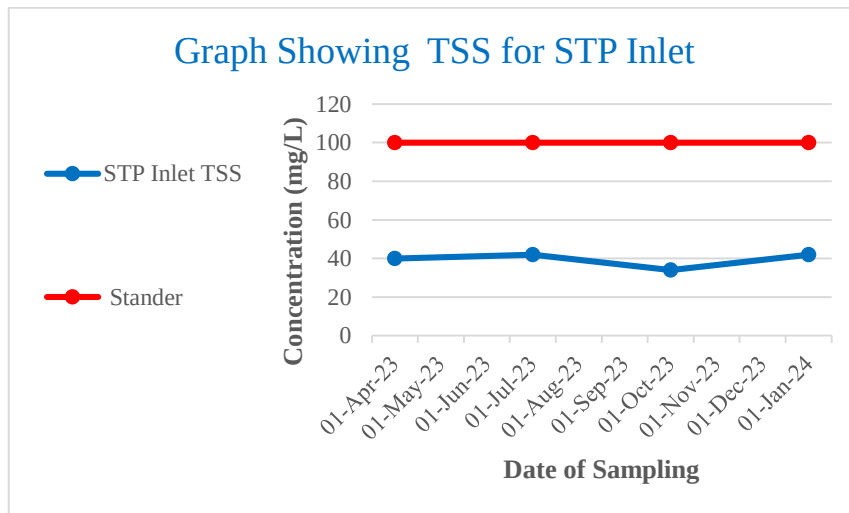
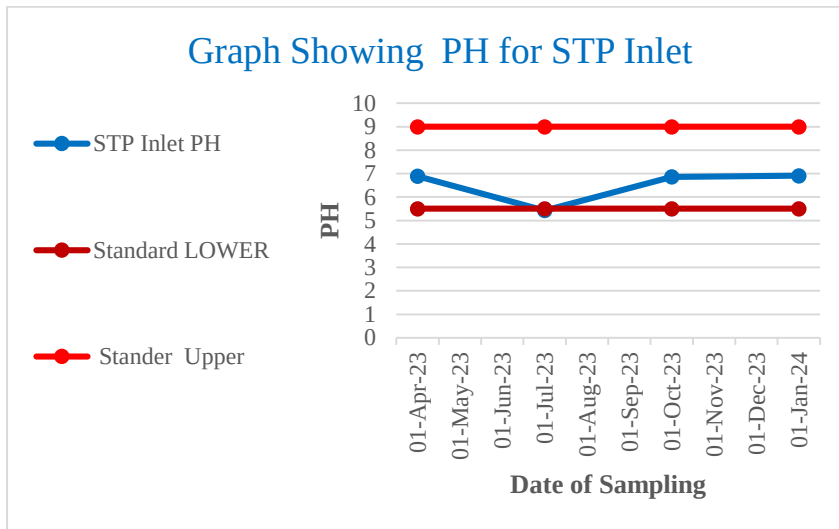


Table:9.12

Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** STP Outlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-Apr-23	7.31	32	<2	2.2
26-Apr-23	7.48	28	<2	2.2
09-May-23	6.69	62	<2	2.2 MPN FC /100 mL
23-May-23	6.81	48	<2	1.8 MPN FC /100 mL
12-Jun-23	4.43	42	<2	20
28-Jun-23	6.96	42	<2	21
12-Jul-23	6.48	24	<2	25
19-Jul-23	7.06	36	<2	21
10-Aug-23	7.08	26	<2	50
24-Aug-23	6.12	38	<2	33
11-Sep-23	7.53	32	<2	Not Working
20-Sep-23	7.33	32	<2	Not Working
11-Oct-23	7.22	24	<2	58
26-Oct-23	7.11	21	<2	46
14-Nov-23	6.95	48	<2	70
21-Nov-23	6.81	28	<2	84
10-Jan-24	7.1	26	<2	63
18-Jan-24	7.33	32	<2	49
12-Feb-24	7.61	36	<2	41
19-Feb-24	6.93	22	<2	38
11-Mar-24	7.29	24	<2	58
27-Mar-24	7.37	32	<2	46

All values are in mg/L except p H & FC (MPN/100 mL))

	pH	TSS	BOD	MPN/100mL
G.S.R. 126 5 € Effluent discharge standards (applicable to all mode of disposal) Sewage Treatment Plants (STPs)	6.5-9.5	<100	30	<1000

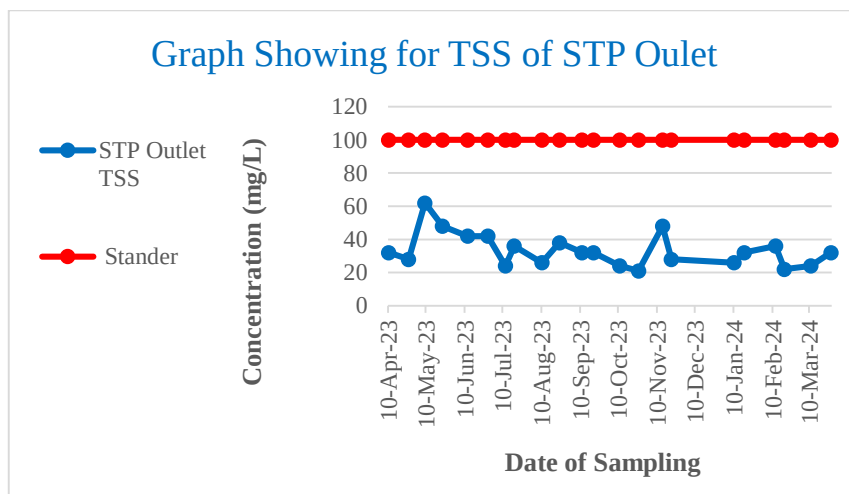
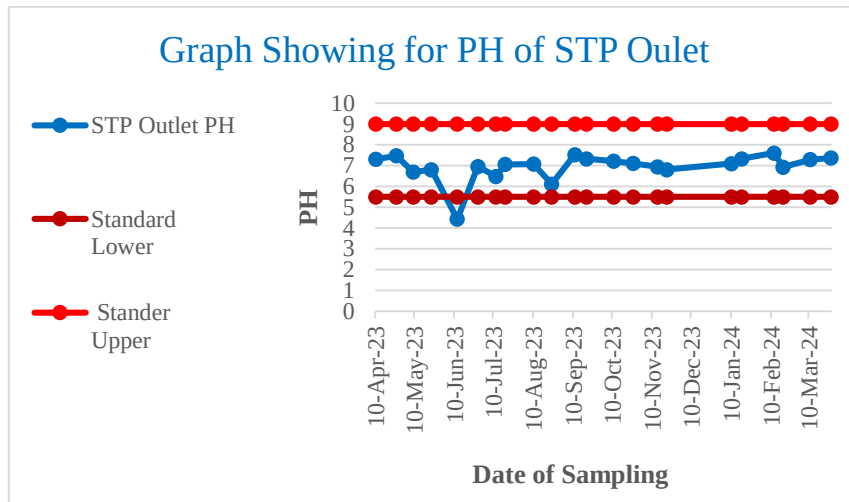


Table:9.13

Area: Ib valley**Project:** Central Hospital**Monitoring station:** Discharge of Hospital

Date of Sampling	pH	Oil & Grease	TSS	COD	BOD
10-Apr-23	7.64	<4.0	24	16	<2
09-May-23	7.63	<4.0	26	12	<2
12-Jun-23	7.37	<4.0	18	12	<2
12-Jul-23	5.85	<4.0	40	24	<2
10-Aug-23	7.13	<4.0	24	20	<2
11-Sep-23	7.03	<4.0	26	16	<2
11-Oct-23	7.08	<4.0	28	20	<2
13-Nov-23	6.83	<4.0	26	24	<2
05-Dec-23	7.97	<4.0	26	20	<2
10-Jan-24	7.73	<4.0	24	16	<2
12-Feb-24	7.3	<4.0	20	12	<2
11-Mar-24	7.46	<4.0	32	24	<2

All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

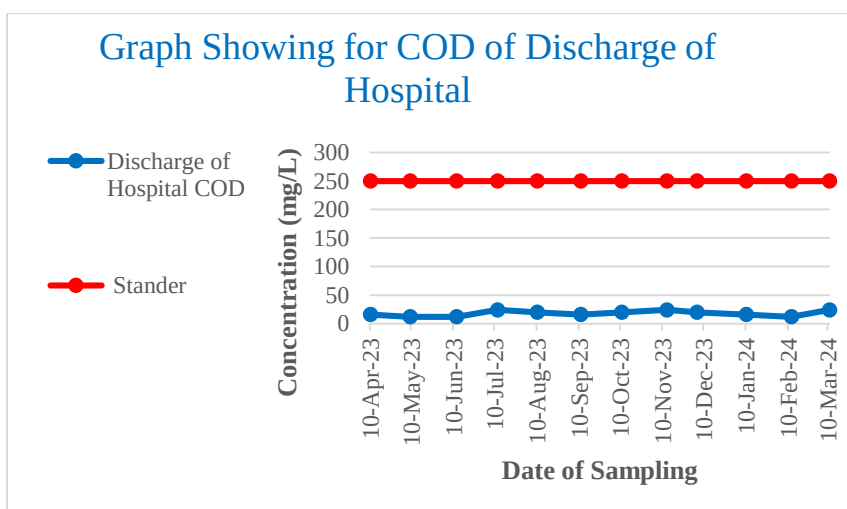
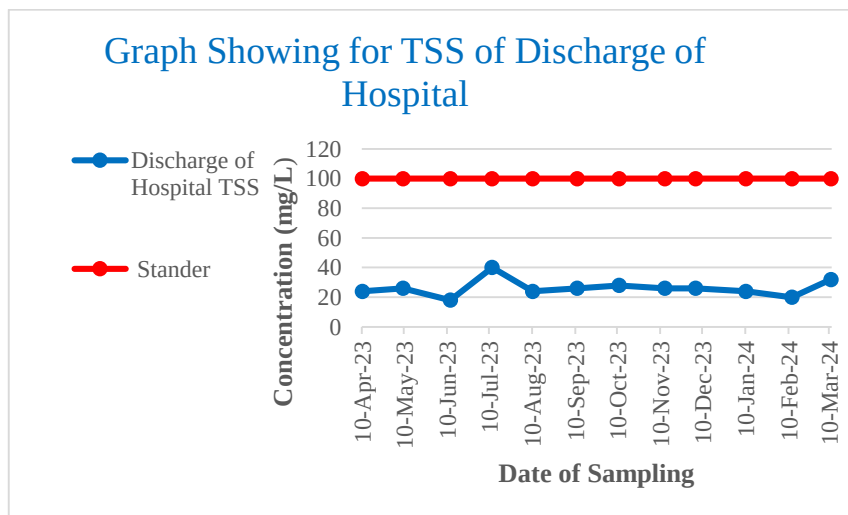
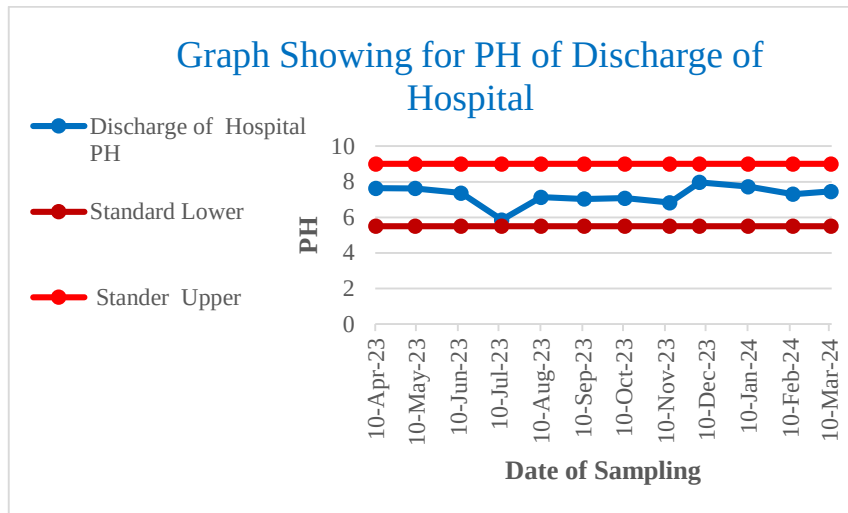


Table:9.14

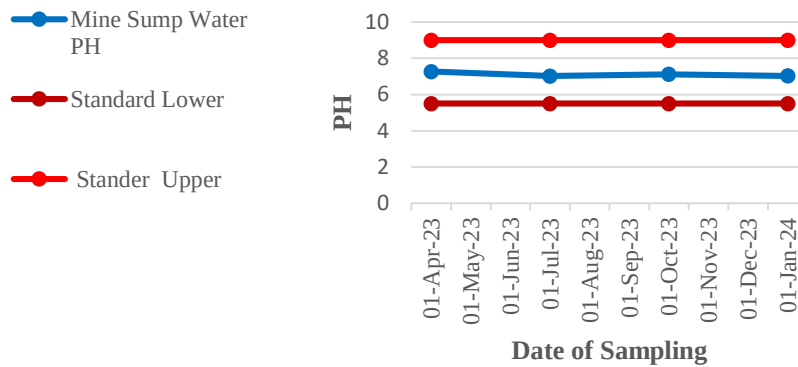
Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.27	<4.0	28	16
13-Jul-23	7.02	<4.0	24	12
12-Oct-23	7.12	<4.0	38	36
11-Jan-24	7.03	<4.0	28	12

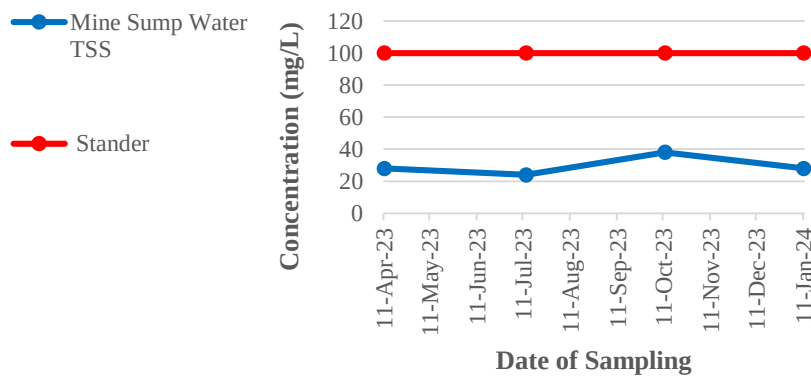
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Mine Sump Water



Graph Showing for TSS of Mine Sump Water



Graph Showing for COD of Mine Sump Water

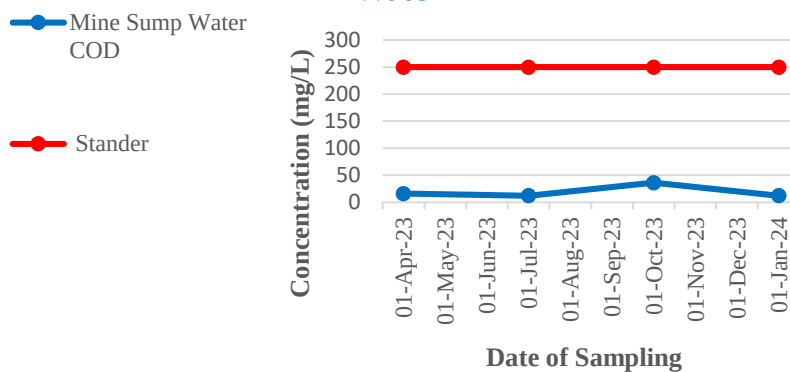


Table:9.15

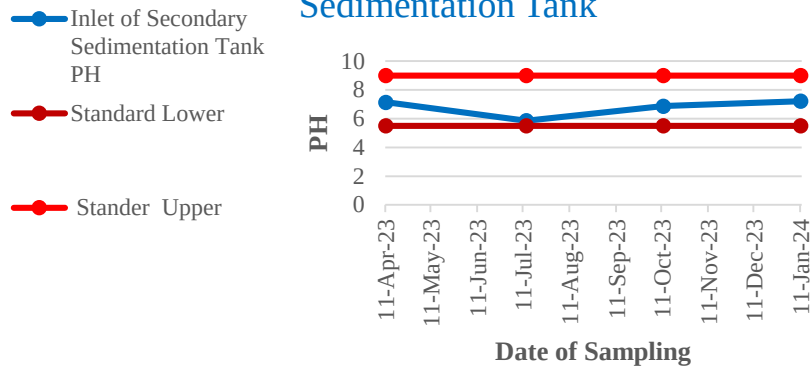
Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring station:** Inlet of Secondary Sedimentation Tank

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.14	<4.0	44	36
13-Jul-23	5.86	<4.0	58	32
12-Oct-23	6.87	<4.0	62	36
11-Jan-24	7.22	<4.0	38	32

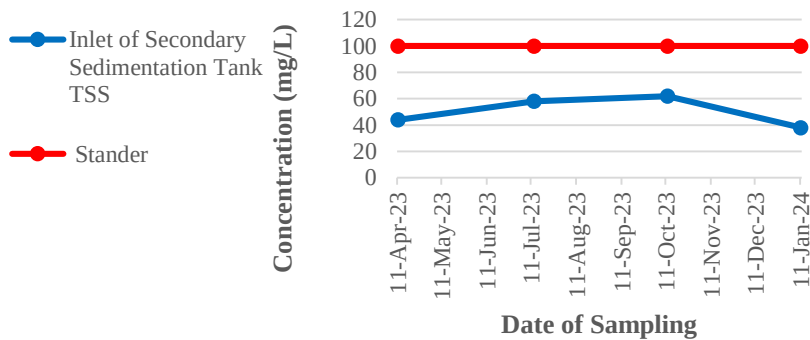
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing PH for Inlet of Secondary Sedimentation Tank



Graph Showing TSS for Inlet of Secondary Sedimentation Tank



Graph Showing for COD of Inlet of Secondary Sedimentation Tank

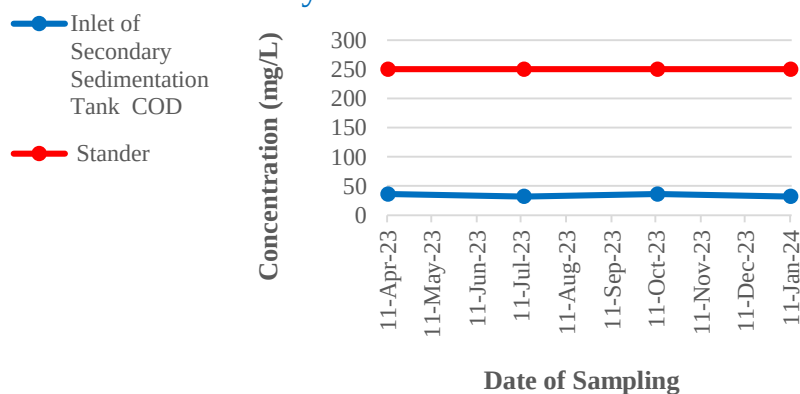


Table: 9.16

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring station:** Outlet of Secondary Sedimentation Tank

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.61	<4.0	32	20
27-Apr-23	7.79	<4.0	36	28
10-May-23	6.91	<4.0	38	28
24-May-23	7.12	<4.0	44	32
13-Jun-23	6.69	<4.0	38	24
29-Jun-23	6.78	<4.0	34	20
13-Jul-23	7.12	<4.0	46	16
20-Jul-23	6.83	<4.0	24	36
11-Aug-23	6.88	<4.0	64	32
25-Aug-23	6.84	<4.0	48	44
12-Sep-23	7.76	<4.0	24	20
21-Sep-23	6.92	<4.0	34	28
12-Oct-23	7.06	<4.0	44	28
27-Oct-23	6.64	<4.0	44	20
14-Nov-23	6.88	<4.0	56	44
21-Nov-23	7.13	<4.0	30	24
06-Dec-23	7.59	<4.0	54	32
21-Dec-23	6.43	<4.0	34	28
11-Jan-24	7.43	<4.0	30	28
19-Jan-24	7.29	<4.0	24	20
13-Feb-24	7.41	<4.0	28	24
20-Feb-24	7.12	<4.0	30	20
12-Mar-24	7.25	<4.0	36	28
28-Mar-24	7.33	<4.0	44	40

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

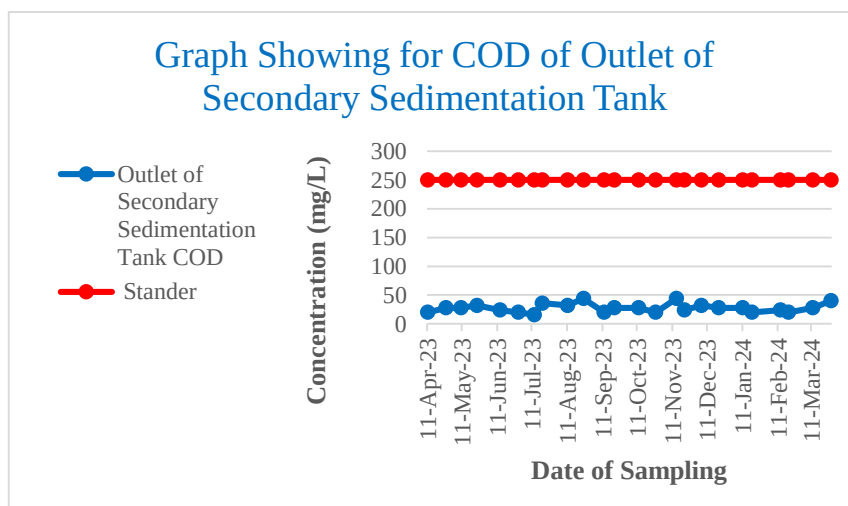
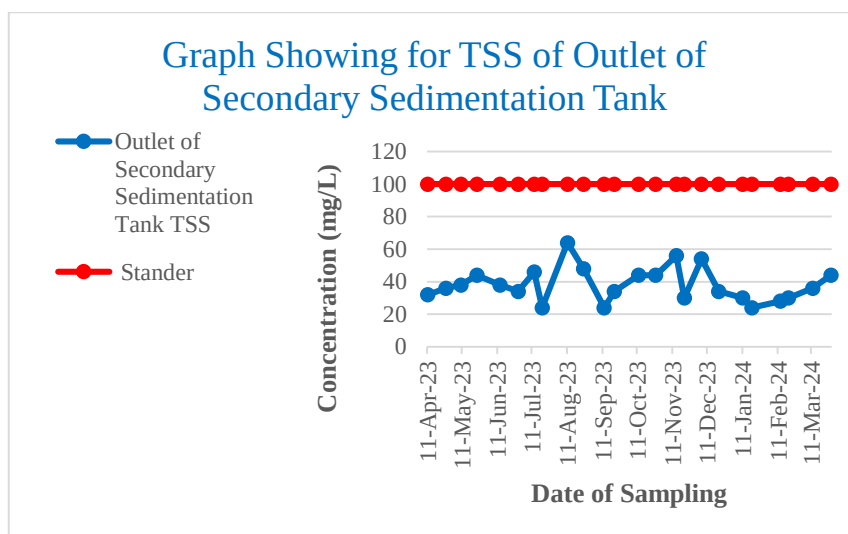
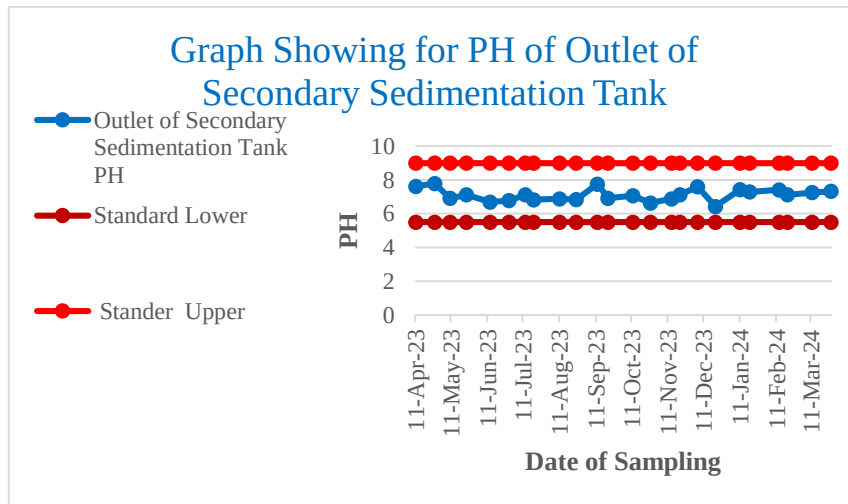


Table:9.17

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring station:** Inlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.34	<4.0	40	44
13-Jul-23	5.72	<4.0	48	36
12-Oct-23	7.04	<4.0	66	36
11-Jan-24	6.93	<4.0	52	44

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

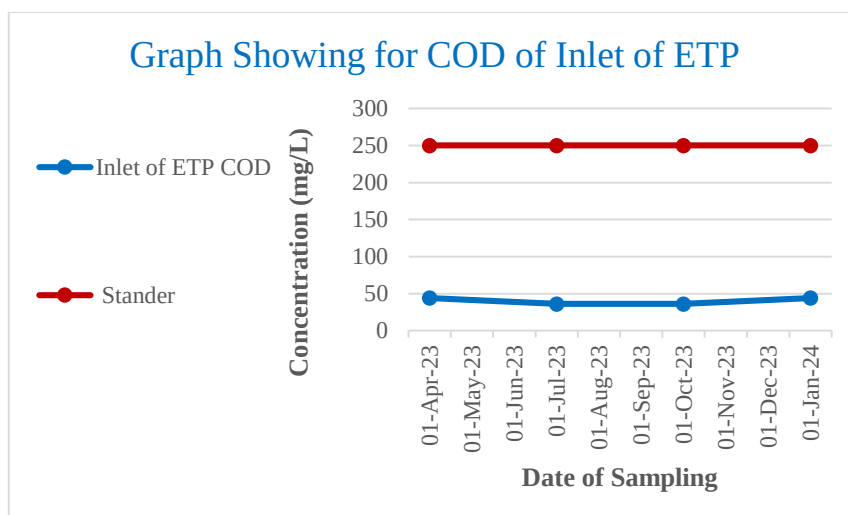
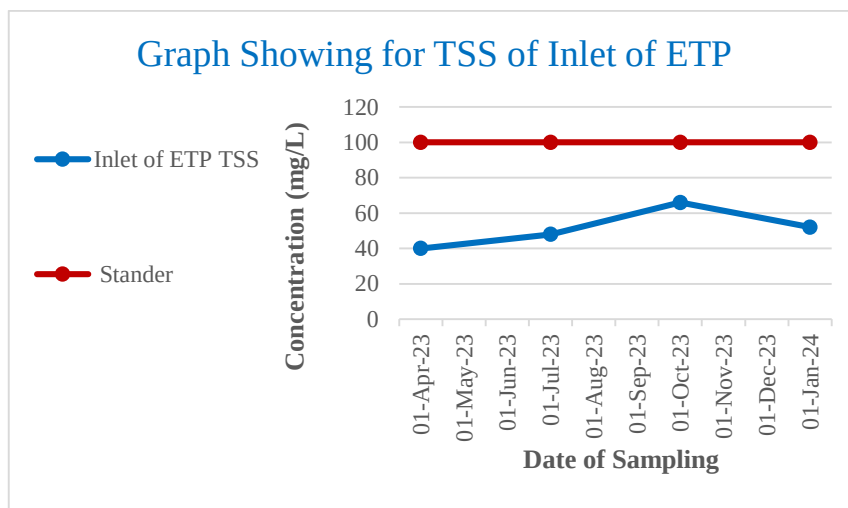
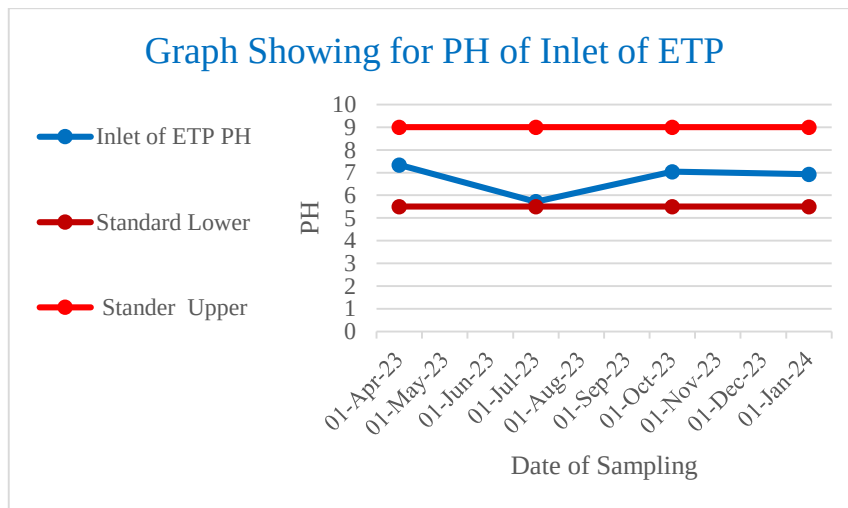


Table:9.18

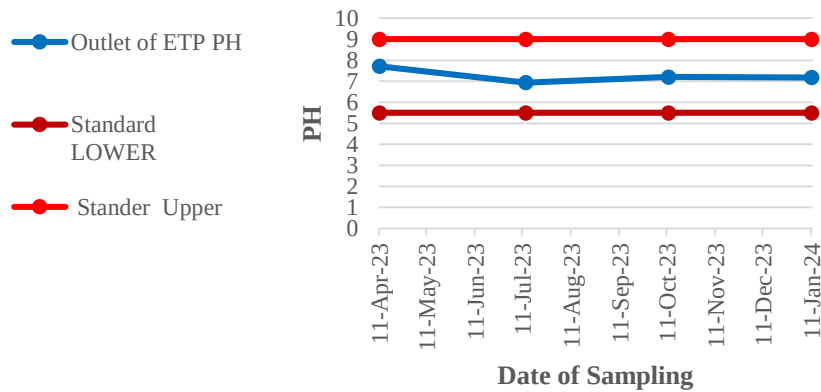
Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring station:** Outlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.72	<4.0	32	24
13-Jul-23	6.94	<4.0	40	28
12-Oct-23	7.21	<4.0	42	20
11-Jan-24	7.18	<4.0	36	40

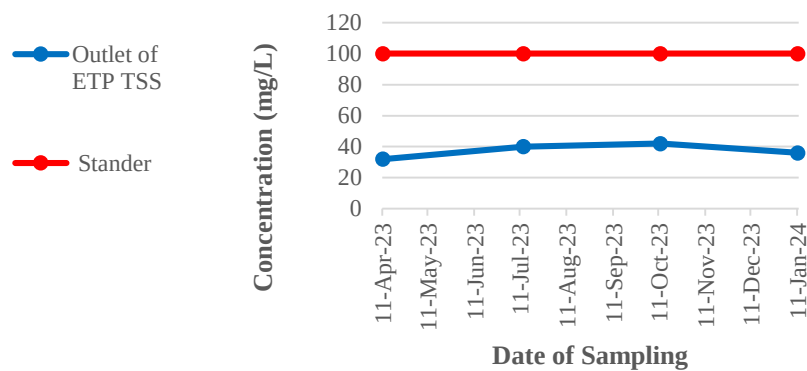
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Outlet of ETP



Graph Showing for TSS of Outlet of ETP



Graph Showing for COD of Outlet of ETP

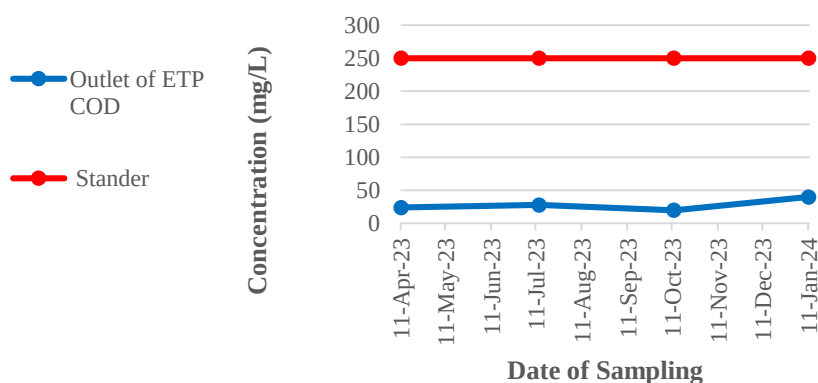
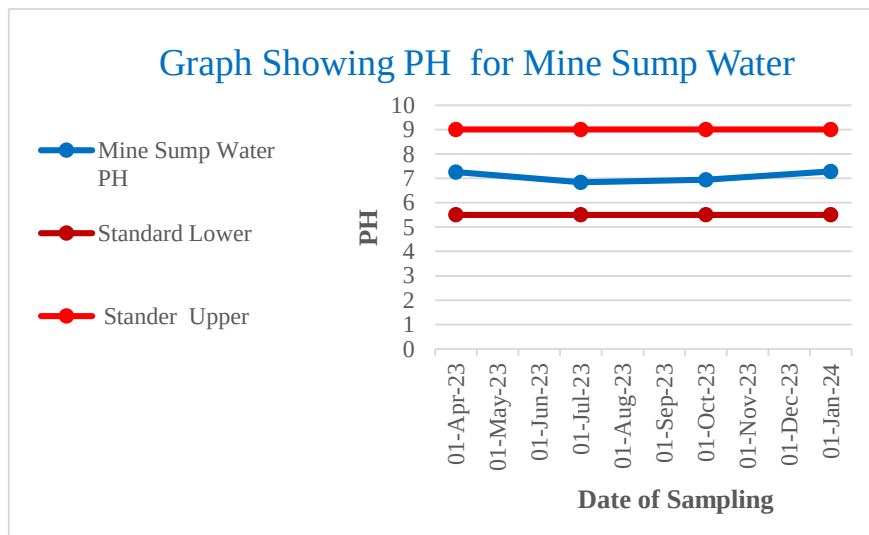


Table:9.19

Area: Lakhanpur**Project:** Lilari OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.25	<4.0	48	44
13-Jul-23	6.83	<4.0	38	20
12-Oct-23	6.94	<4.0	56	32
11-Jan-24	7.28	<4.0	32	24

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



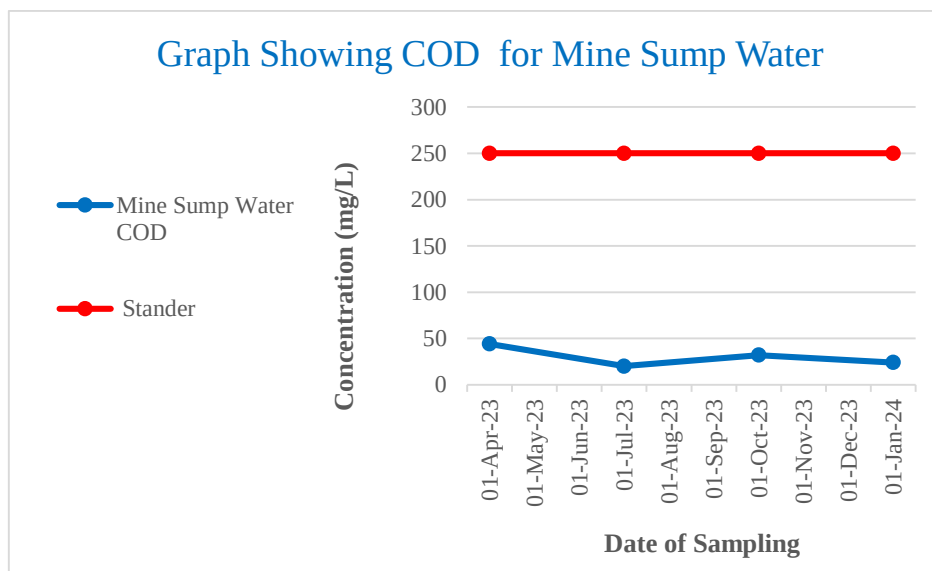
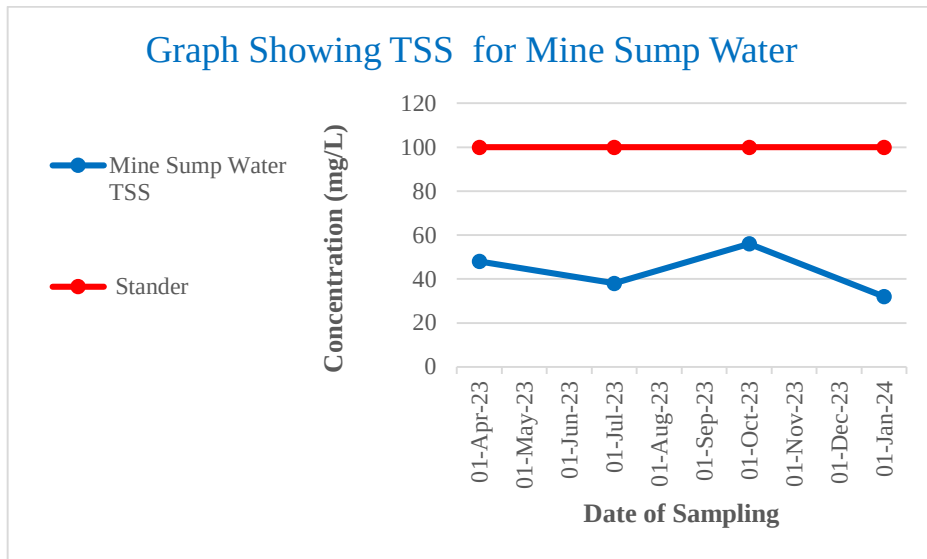


Table:9.20

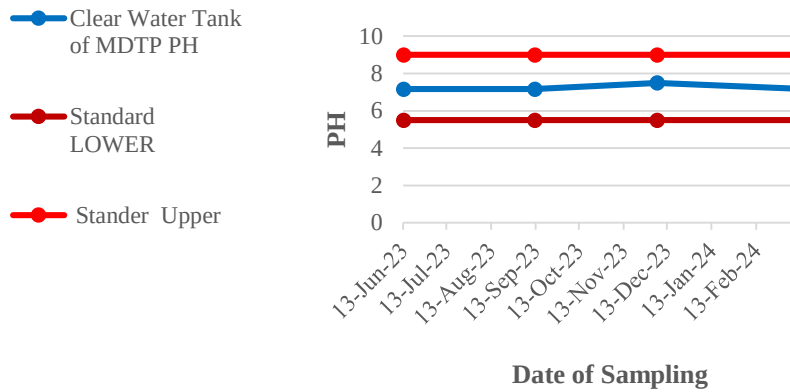
Area: Lakhanpur**Project:** Belpahar OCP**Monitoring station:** Clear Water Tank of MDTP

Date of Sampling	pH	Oil & Grease	TSS	COD
13-Jun-23	7.16	<4.0	30	28
12-Sep-23	7.16	<4.0	36	20
06-Dec-23	7.5	<4.0	44	28
12-Mar-24	7.19	<4.0	36	28

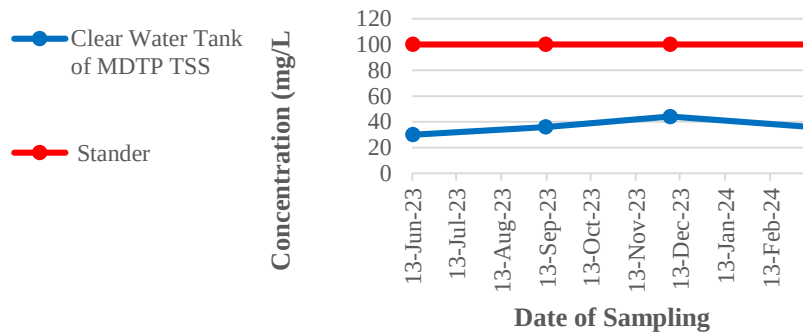
All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Clear Water Tank of MDTP



Graph Showing for TSS of Clear Water Tank of MDTP



Graph Showing for COD of Clear Water Tank of MDTP

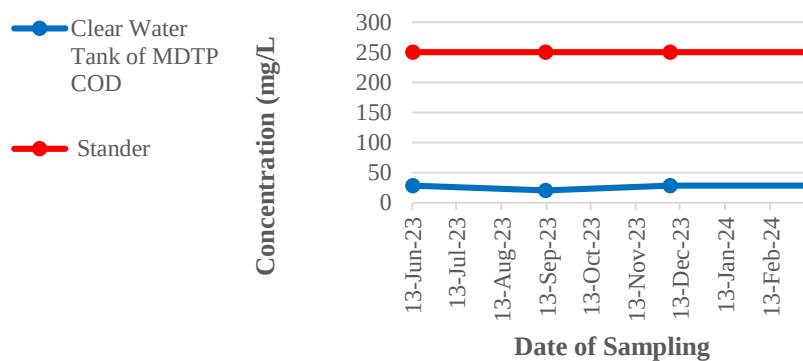


Table:9.21

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
13-Jun-23	6.94	<4.0	40	32
12-Sep-23	6.93	<4.0	48	28
06-Dec-23	4.47	<4.0	64	44
12-Mar-24	7.33	<4.0	40	32

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

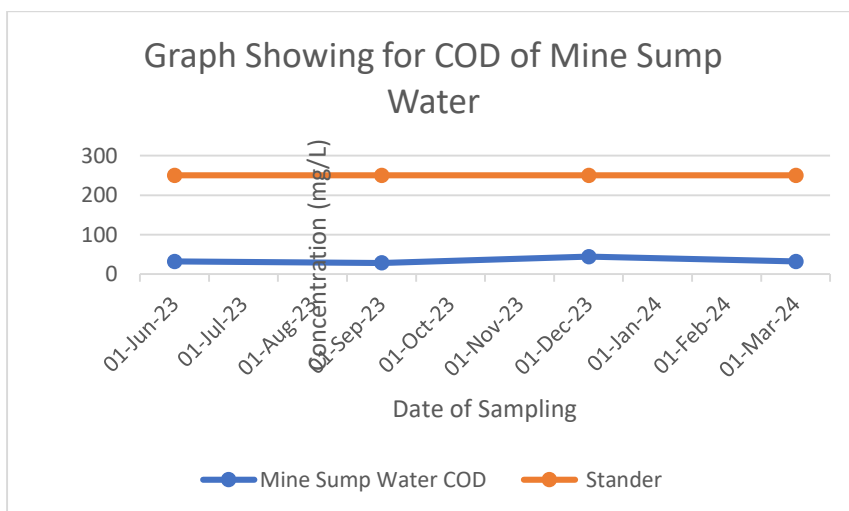
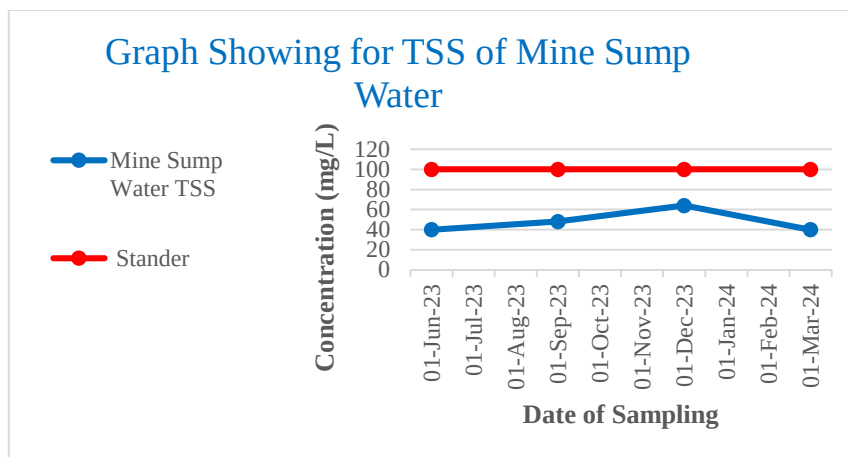
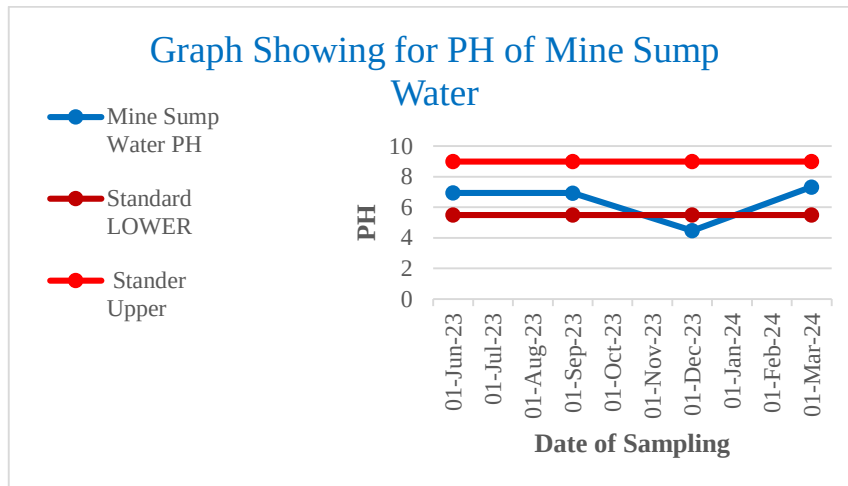


Table:9.22

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring station:** Clear Water Tank of Sewage Treatment Plant

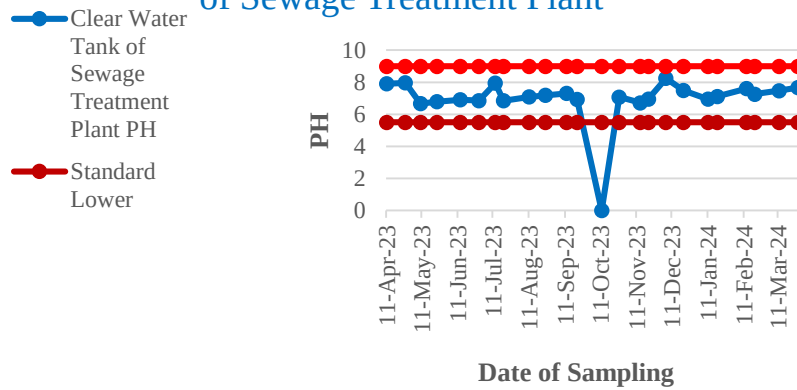
Date of Sampling	pH	TSS	BOD	MPN/100mL
11-Apr-23	7.91	18	<2	1.1
27-Apr-23	7.97	28	<2	1.1
10-May-23	6.67	30	<2	1.1 MPN FC /100 mL
24-May-23	6.79	36	<2	1.8 MPN FC /100 mL
13-Jun-23	6.91	34	<2	24
29-Jun-23	6.86	44	<2	21
13-Jul-23	7.95	58	<2	24
20-Jul-23	6.85	22	<2	25
11-Aug-23	7.09	46	<2	40
25-Aug-23	7.19	36	<2	33
12-Sep-23	7.31	30	<2	39
21-Sep-23	6.94	36	<2	33
12-Oct-23	Dry	Dry	-	34
27-Oct-23	7.08	24	<2	40
14-Nov-23	6.72	30	<2	33
21-Nov-23	6.96	40	<2	46
06-Dec-23	8.25	24	<2	34
21-Dec-23	7.49	30	<2	36
11-Jan-24	6.95	34	<2	79
19-Jan-24	7.12	40	<2	63
13-Feb-24	7.61	42	<2	47
20-Feb-24	7.26	36	<2	43
12-Mar-24	7.48	32	<2	34
28-Mar-24	7.67	28	<2	40

All values are in mg/L except p H & FC (MPN/100 mL))

	pH	TSS	BOD	MPN/100mL
G.S.R. 126 5 € Effluent discharge standards (applicable to all mode of disposal) Sewage Treatment Plants (STPs)	6.5-9.5	<100	30	<1000

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Graph Showing for PH of Clear Water Tank
of Sewage Treatment Plant



Graph Showing for TSS of Clear Water
Tank of Sewage Treatment Plant

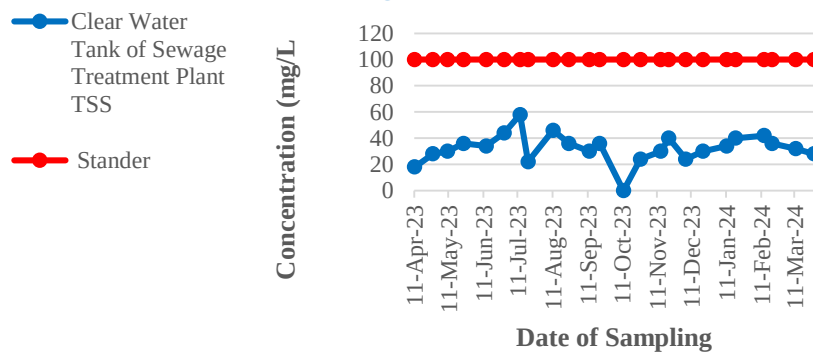


Table:9.23
Area: Lakhanpur
Project: Belpahar OCP
Monitoring: STP Inlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
11-Apr-23	7.76	28	<2	6.9
13-Jul-23	7.74	52	<2	33
12-Oct-23	Dry	Dry	-	63
11-Jan-24	6.92	26	<2	350

All values are in mg/L except p H & FC (MPN/100 mL))

	pH	TSS	BOD	MPN/100mL
G.S.R. 126 5 € Effluent discharge standards (applicable to all mode of disposal) Sewage Treatment Plants (STPs)	6.5-9.5	<100	30	<1000

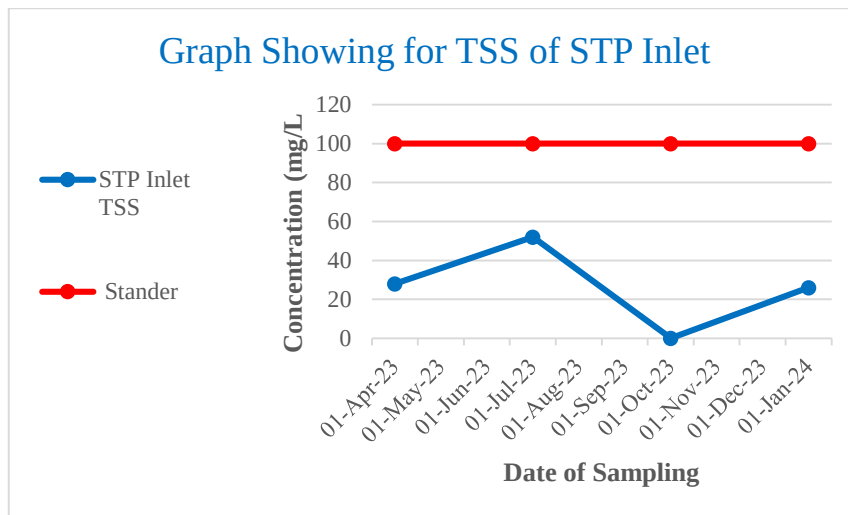
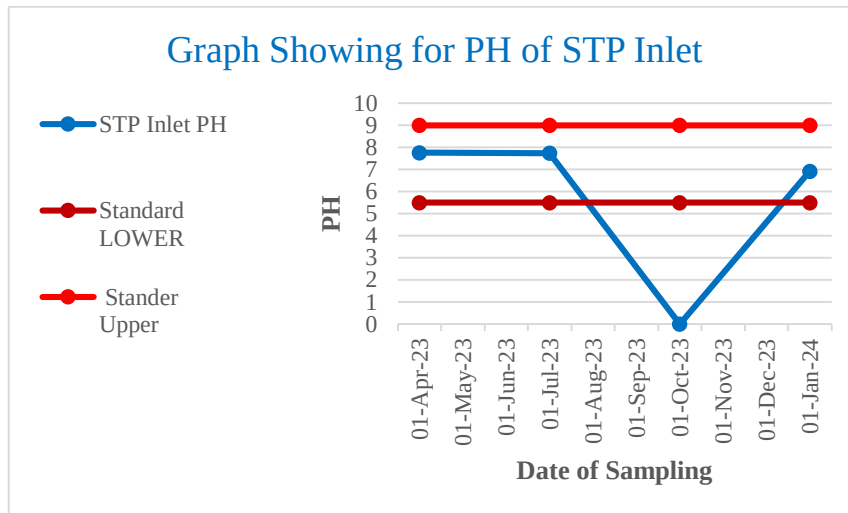


Table:9.24
Area: Lakhanpur
Project: Belpahar OCP
Monitoring station: Inlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.33	<4.0	38	20
13-Jul-23	6.94	<4.0	64	40
12-Oct-23	6.84	<4.0	68	40
11-Jan-24	6.89	<4.0	48	36

All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

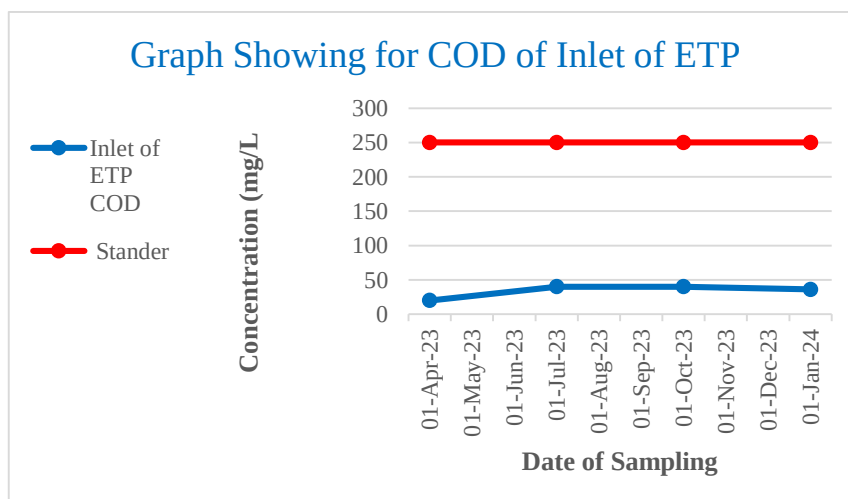
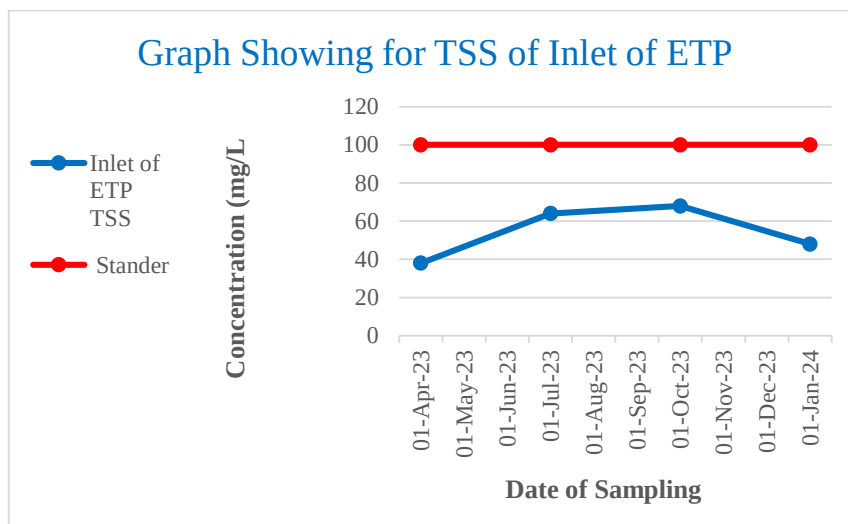
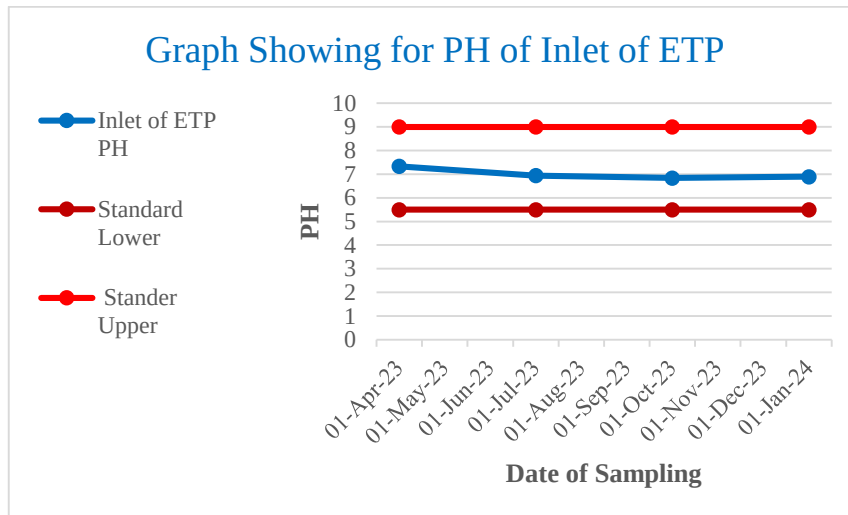


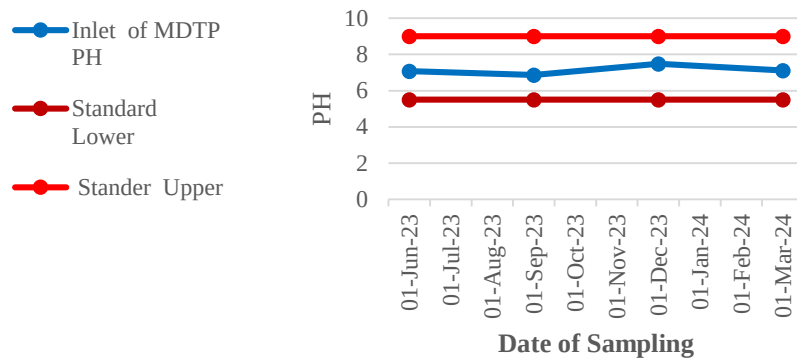
Table:9.25**Area:** Lakhanpur**Project:** Belpahar OCP**Monitoring station:** Inlet of MDTP

Date of Sampling	pH	Oil & Grease	TSS	COD
13-Jun-23	7.08	<4.0	24	20
12-Sep-23	6.86	<4.0	54	36
06-Dec-23	7.48	<4.0	48	36
12-Mar-24	7.11	<4.0	46	40

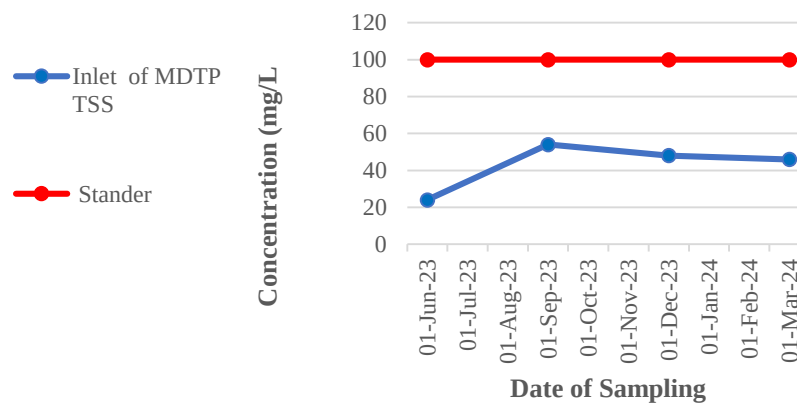
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Inlet of MDTP



Graph Showing for TSS of Inlet of MDTP



Graph Showing for COD of Inlet of MDTP

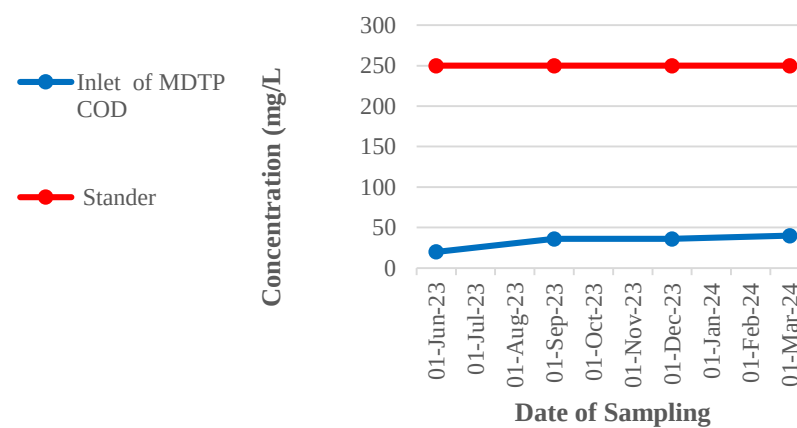


Table:9.26
Area: Lakhanpur

Project: Belpahar OCP

Monitoring station: Outlet of ETP

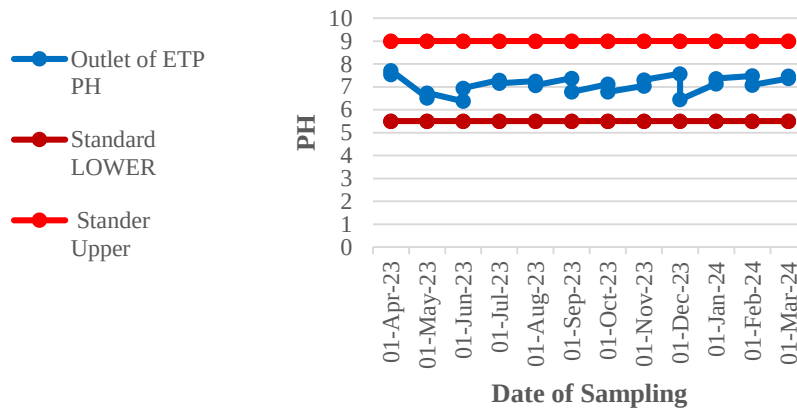
Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.54	<4.0	26	12
27-Apr-23	7.71	<4.0	34	20
10-May-23	6.52	<4.0	32	36
24-May-23	6.73	<4.0	40	40
13-Jun-23	6.38	<4.0	30	24
29-Jun-23	6.94	<4.0	54	36
13-Jul-23	7.29	<4.0	56	32
20-Jul-23	7.16	<4.0	18	24
11-Aug-23	7.25	<4.0	68	48
25-Aug-23	7.07	<4.0	54	32
12-Sep-23	7.38	<4.0	34	32
21-Sep-23	6.78	<4.0	48	40
12-Oct-23	7.12	<4.0	54	24
27-Oct-23	6.78	<4.0	38	28
13-Nov-23	7.04	<4.0	68	48
21-Nov-23	7.31	<4.0	38	32
06-Dec-23	7.57	<4.0	46	40
21-Dec-23	6.45	<4.0	38	36
11-Jan-24	7.14	<4.0	34	28
19-Jan-24	7.36	<4.0	30	24
13-Feb-24	7.48	<4.0	38	40
20-Feb-24	7.08	<4.0	38	32
12-Mar-24	7.37	<4.0	42	36
28-Mar-24	7.47	<4.0	48	44

All values are in mg/L except pH & FC (MPN/100 mL))

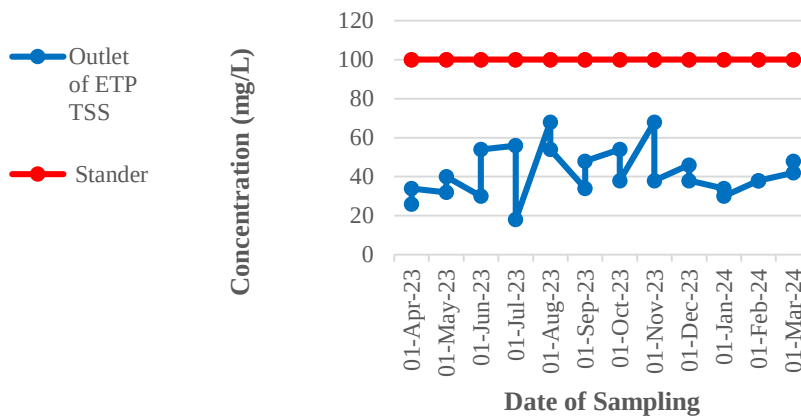
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

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Graph Showing for PH of Otlet of ETP



Graph Showing for TSS of Otlet of ETP



Graph Showing for COD of Otlet of ETP

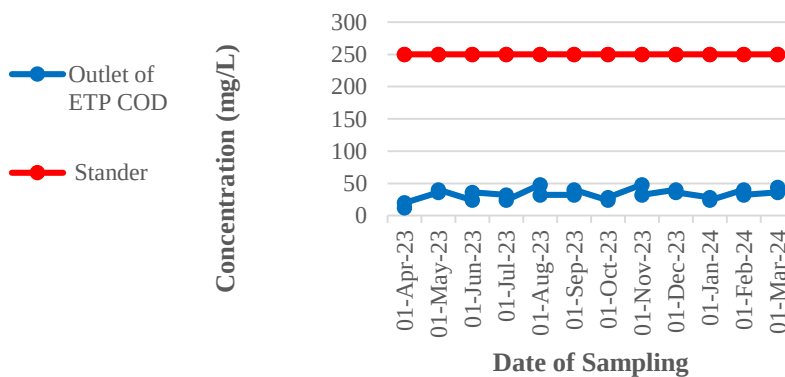


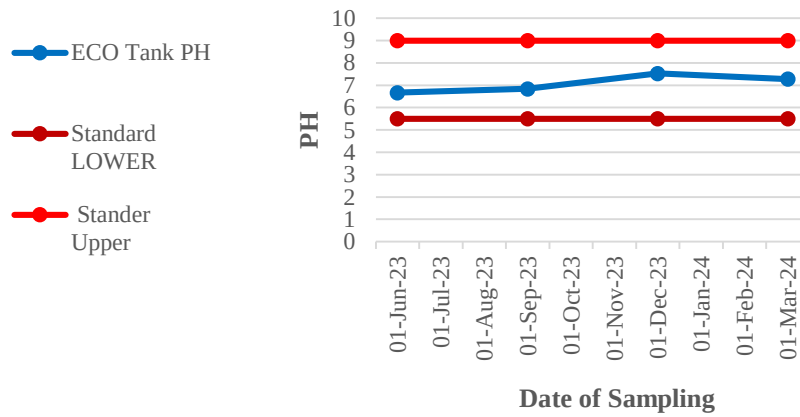
Table:9.27
Area: Lakhanpur
Project: Belpahar OCP
Monitoring station: ECO Tank

Date of Sampling	pH	Oil & Grease	TSS	COD
13-Jun-23	6.67	<4.0	26	20
12-Sep-23	6.84	<4.0	46	36
06-Dec-23	7.53	<4.0	58	36
12-Mar-24	7.28	<4.0	34	20

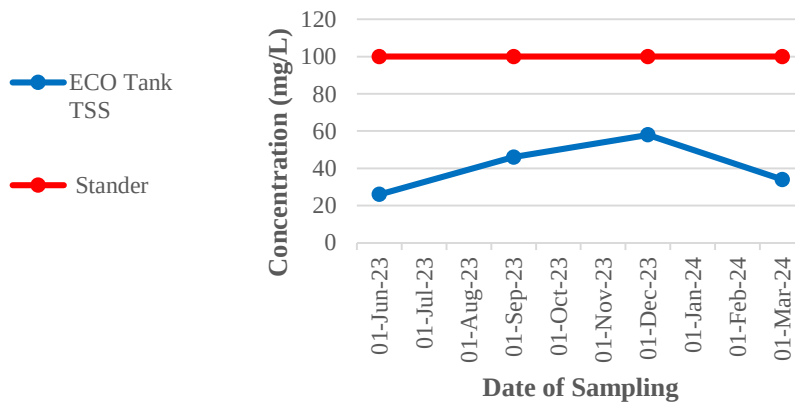
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of ECO Tank



Graph Showing for TSS of ECO Tank



Graph Showing for COD of ECO Tank

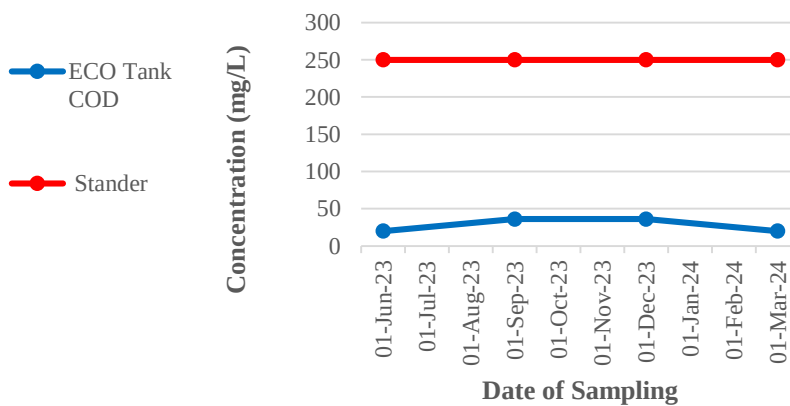


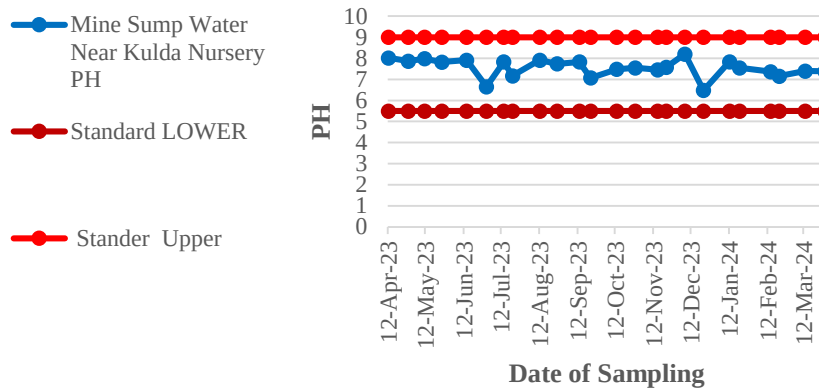
Table:9.28

Area: Basundhara**Project:** Kulda OCP**Monitoring station:** Mine Sump Water Near Kulda Nursery

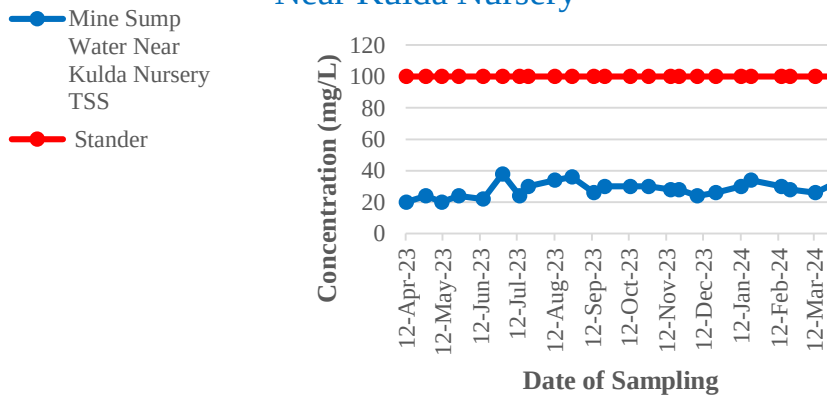
Date of Sampling	pH	Oil & Grese	TSS	COD	
12-Apr-23	8.02	<4.0	20	16	
28-Apr-23	7.87	<4.0	24	28	
11-May-23	7.98	<4.0	20	16	
25-May-23	7.82	<4.0	24	20	
14-Jun-23	7.91	<4.0	22	20	
30-Jun-23	6.65	<4.0	38	12	
14-Jul-23	7.83	<4.0	24	28	
21-Jul-23	7.17	<4.0	30	16	
12-Aug-23	7.91	<4.0	34	28	
26-Aug-23	7.74	<4.0	36	12	
13-Sep-23	7.83	<4.0	26	20	
22-Sep-23	7.07	<4.0	30	32	
13-Oct-23	7.48	<4.0	30	20	
28-Oct-23	7.55	<4.0	30	24	
15-Nov-23	7.46	<4.0	28	20	
22-Nov-23	7.58	<4.0	28	12	
07-Dec-23	8.2	<4.0	24	12	
22-Dec-23	6.48	<4.0	26	24	
12-Jan-24	7.84	<4.0	30	32	
20-Jan-24	7.55	<4.0	34	28	
14-Feb-24	7.37	<4.0	30	32	
21-Feb-24	7.15	<4.0	28	16	
13-Mar-24	7.4	<4.0	26	16	
29-Mar-24	7.38	<4.0	32	24	
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

All values are in mg/L except p H & FC (MPN/100 mL))

Graph Showing for PH of Mine Sump Water
Near Kulda Nursery



Graph Showing for TSS of Mine Sump Water
Near Kulda Nursery



Graph Showing for COD of Mine Sump
Water Near Kulda Nursery

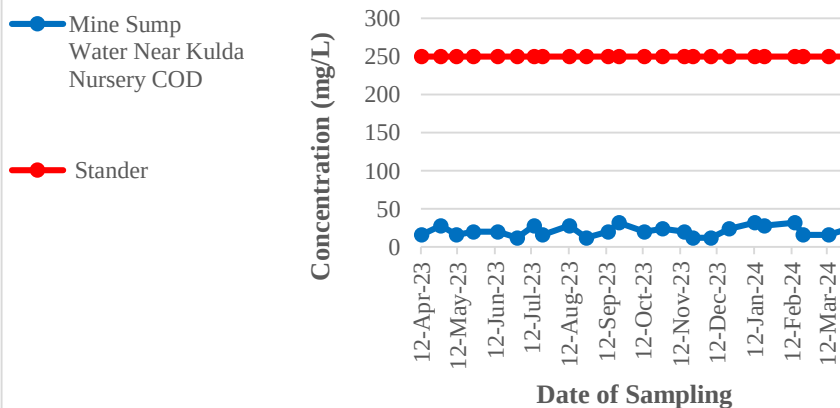


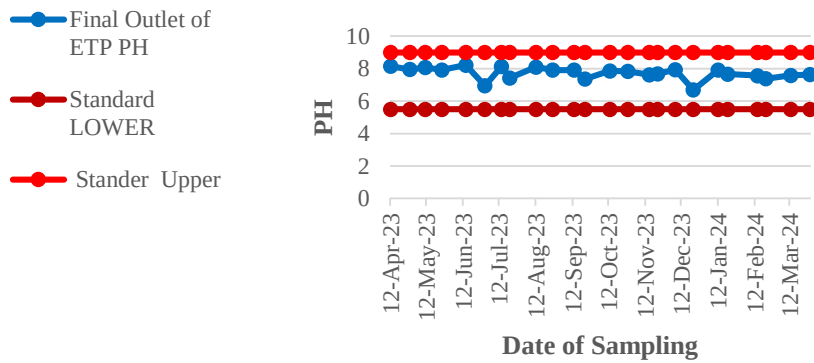
Table:9.29

Area: Basundhara**Project:** Kulda OCP**Monitoring station:** Final Outlet Of ETP

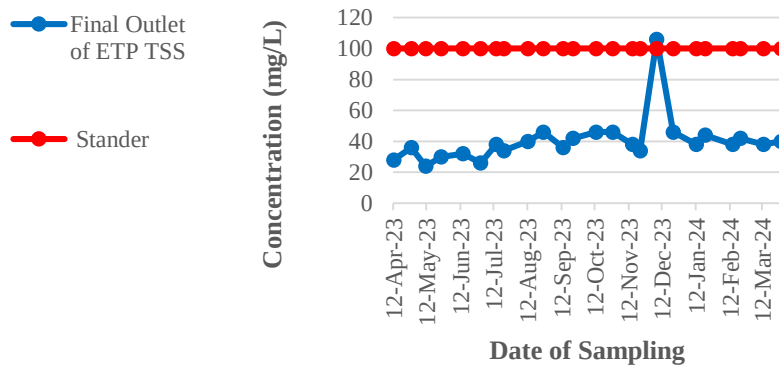
Date of Sampling	pH	Oil & Grese	TSS	COD	
12-Apr-23	8.15	<4.0	28	32	
28-Apr-23	7.95	<4.0	36	28	
11-May-23	8.07	<4.0	24	32	
25-May-23	7.92	<4.0	30	24	
14-Jun-23	8.22	<4.0	32	24	
30-Jun-23	6.95	<4.0	26	16	
14-Jul-23	8.14	<4.0	38	32	
21-Jul-23	7.43	<4.0	34	20	
12-Aug-23	8.1	<4.0	40	44	
26-Aug-23	7.91	<4.0	46	16	
13-Sep-23	7.91	<4.0	36	24	
22-Sep-23	7.36	<4.0	42	36	
13-Oct-23	7.86	4	46	28	
28-Oct-23	7.83	4.4	46	32	
15-Nov-23	7.63	<4.0	38	32	
22-Nov-23	7.69	<4.0	34	28	
07-Dec-23	7.93	4.2	106	156	
22-Dec-23	6.69	<4.0	46	40	
12-Jan-24	7.92	<4.0	38	20	
20-Jan-24	7.67	<4.0	44	32	
14-Feb-24	7.57	<4.0	38	40	
21-Feb-24	7.38	<4.0	42	36	
13-Mar-24	7.59	<4.0	38	24	
29-Mar-24	7.64	<4.0	40	32	
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

All values are in mg/L except p H & FC (MPN/100 mL))

Graph Showing for PH of Final Outlet of ETP



Graph Showing for TSS of Final Outlet of ETP



Graph Showing for COD of Final Outlet of ETP

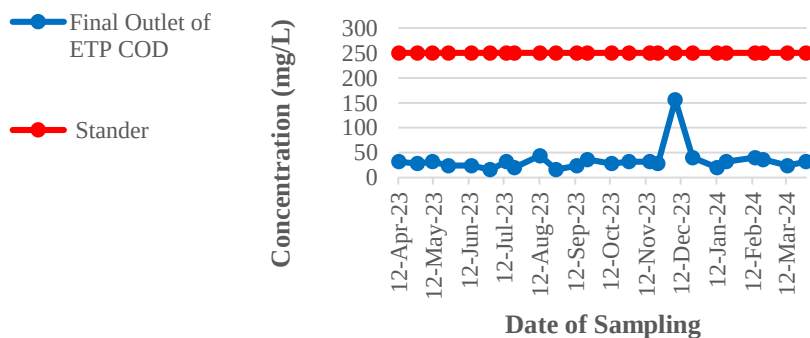


Table:9.30

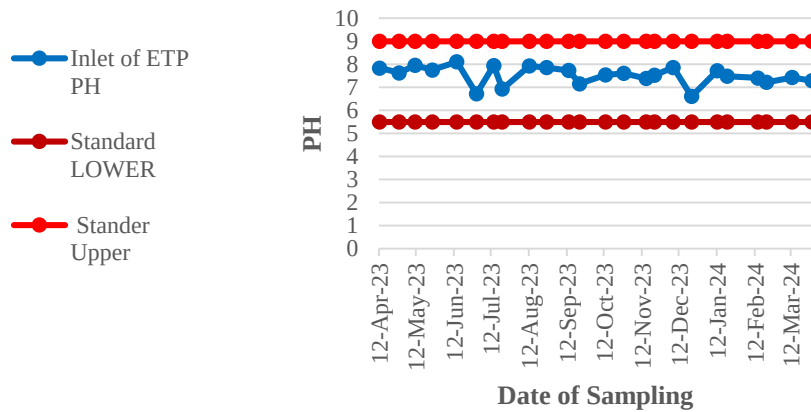
Area: Basundhara**Project:** Kulda OCP**Monitoring station:** Inlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.84	<4.0	64	40
28-Apr-23	7.63	<4.0	54	36
11-May-23	7.96	<4.0	38	40
25-May-23	7.76	<4.0	44	32
14-Jun-23	8.11	<4.0	40	32
30-Jun-23	6.72	<4.0	30	20
14-Jul-23	7.95	<4.0	48	44
21-Jul-23	6.93	<4.0	68	28
12-Aug-23	7.93	<4.0	54	24
26-Aug-23	7.86	<4.0	58	36
13-Sep-23	7.74	<4.0	48	32
22-Sep-23	7.16	<4.0	56	44
13-Oct-23	7.54	5.2	86	60
28-Oct-23	7.61	5.4	92	72
15-Nov-23	7.39	<4.0	62	52
22-Nov-23	7.53	<4.0	46	40
07-Dec-23	7.87	4.8	128	160
22-Dec-23	6.61	<4.0	78	112
12-Jan-24	7.73	<4.0	54	36
20-Jan-24	7.49	<4.0	62	40
14-Feb-24	7.41	<4.0	82	52
21-Feb-24	7.22	<4.0	56	44
13-Mar-24	7.43	<4.0	54	48
29-Mar-24	7.29	<4.0	62	48

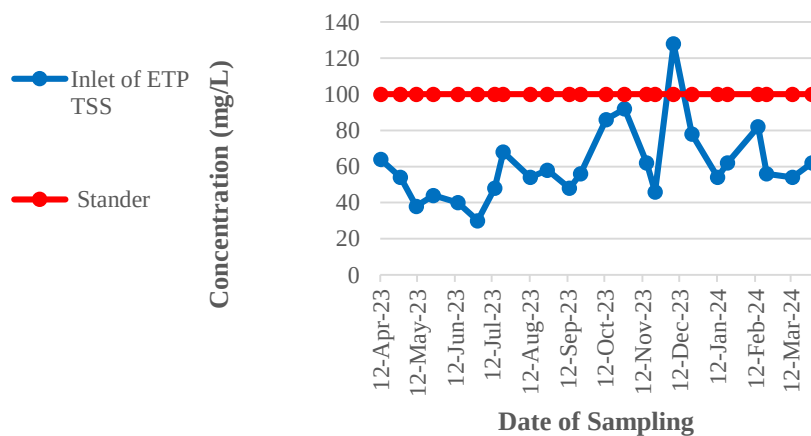
All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Inlet of ETP



Graph Showing for TSS of Inlet of ETP



Graph Showing for COD of Inlet of ETP

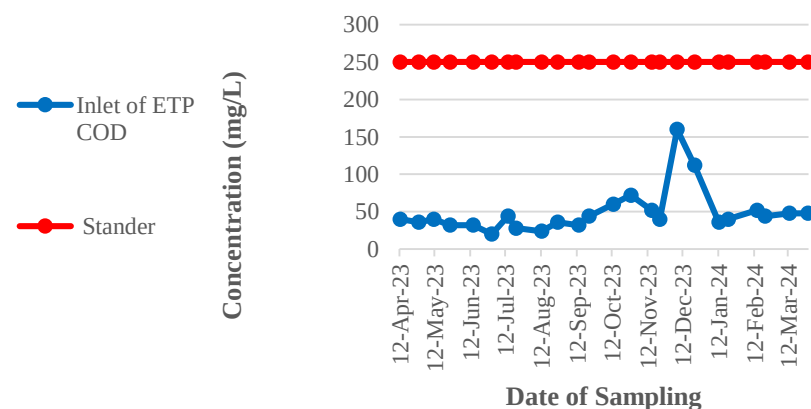


Table:9.31

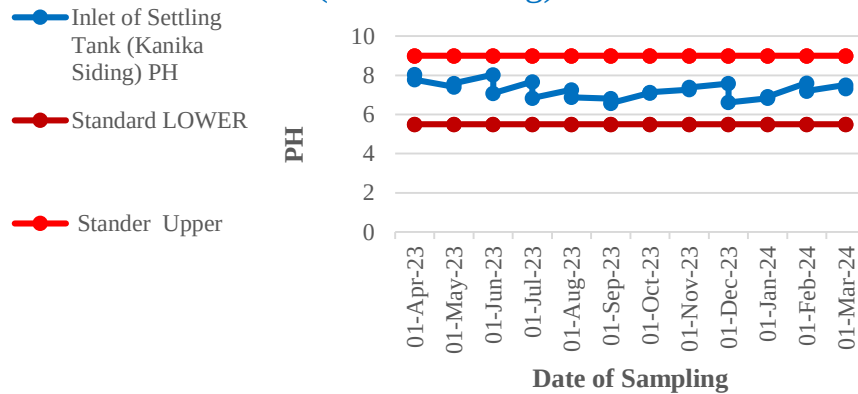
Area: Basundhara**Project:** Garjanbahal OCP**Monitoring station:** Inlet of Settling Tank (Kanika Siding

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	8.04	5.2	88	48
28-Apr-23	7.78	4.8	74	40
11-May-23	7.41	<4.0	48	36
25-May-23	7.59	<4.0	24	20
14-Jun-23	8.03	<4.0	46	40
30-Jun-23	7.08	<4.0	34	16
14-Jul-23	7.67	<4.0	42	32
21-Jul-23	6.84	<4.0	38	36
12-Aug-23	7.26	<4.0	66	40
26-Aug-23	6.88	<4.0	58	32
13-Sep-23	6.81	<4.0	52	40
22-Sep-23	6.58	<4.0	54	32
13-Oct-23	7.1	4.8	78	68
28-Oct-23	7.13	5	84	68
15-Nov-23	7.27	<4.0	54	44
22-Nov-23	7.39	<4.0	40	36
07-Dec-23	7.58	<4.0	74	44
22-Dec-23	6.62	<4.0	68	48
12-Jan-24	6.83	<4.0	50	48
20-Jan-24	6.91	<4.0	58	40
14-Feb-24	7.61	<4.0	74	48
21-Feb-24	7.2	<4.0	64	48
13-Mar-24	7.51	<4.0	58	40
29-Mar-24	7.33	<4.0	52	40

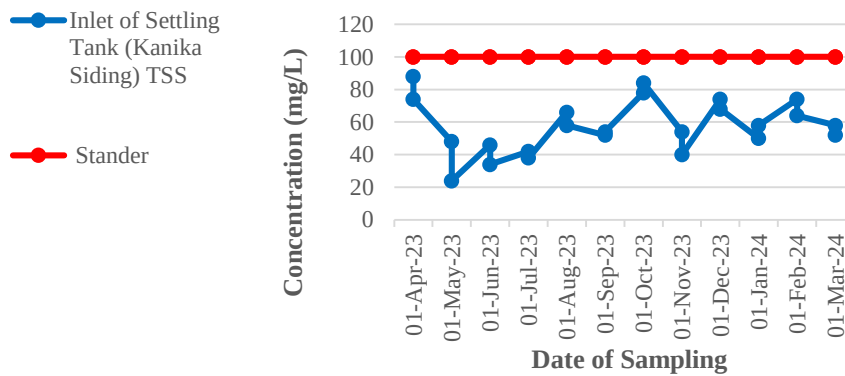
All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Inlet of Settling Tank (Kanika Siding)



Graph Showing for TSS of Inlet of Settling Tank (Kanika Siding)



Graph Showing for COD of Inlet of Settling Tank (Kanika Siding)

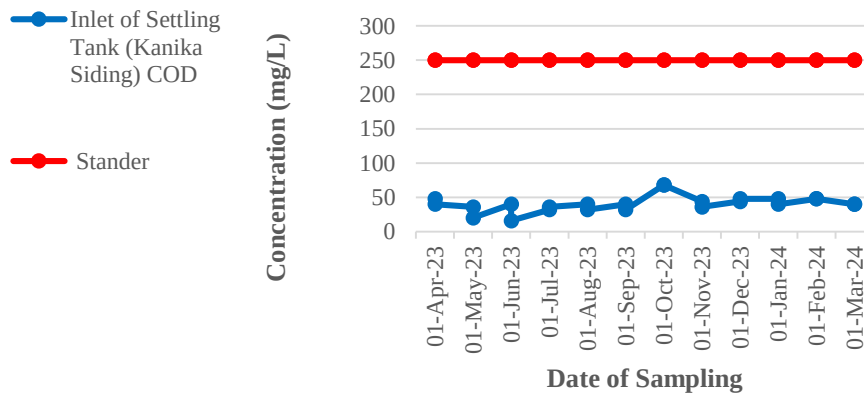


Table:9.32

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring station:**Outlet of Settling Tank (Kanika Siding)

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	8.23	<4.0	72	36
28-Apr-23	7.95	4.2	58	32
11-May-23	7.57	<4.0	36	24
25-May-23	7.74	<4.0	30	32
14-Jun-23	8.14	<4.0	34	24
30-Jun-23	7.25	<4.0	30	32
14-Jul-23	7.88	<4.0	38	24
21-Jul-23	7.15	<4.0	26	32
12-Aug-23	7.47	<4.0	52	24
26-Aug-23	7.3	<4.0	44	12
13-Sep-23	7.46	<4.0	40	36
22-Sep-23	6.76	<4.0	40	24
13-Oct-23	7.28	4.2	54	36
28-Oct-23	7.34	4.2	62	48
15-Nov-23	7.48	<4.0	34	28
22-Nov-23	7.53	<4.0	32	16
07-Dec-23	7.63	<4.0	52	32
22-Dec-23	6.75	<4.0	36	32
12-Jan-24	7.19	<4.0	38	24
20-Jan-24	7.17	<4.0	44	36
14-Feb-24	7.76	<4.0	36	40
21-Feb-24	7.42	<4.0	48	32
13-Mar-24	7.69	<4.0	40	32
29-Mar-24	7.72	<4.0	34	28

All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD., RI VII, BHUBANESWAR

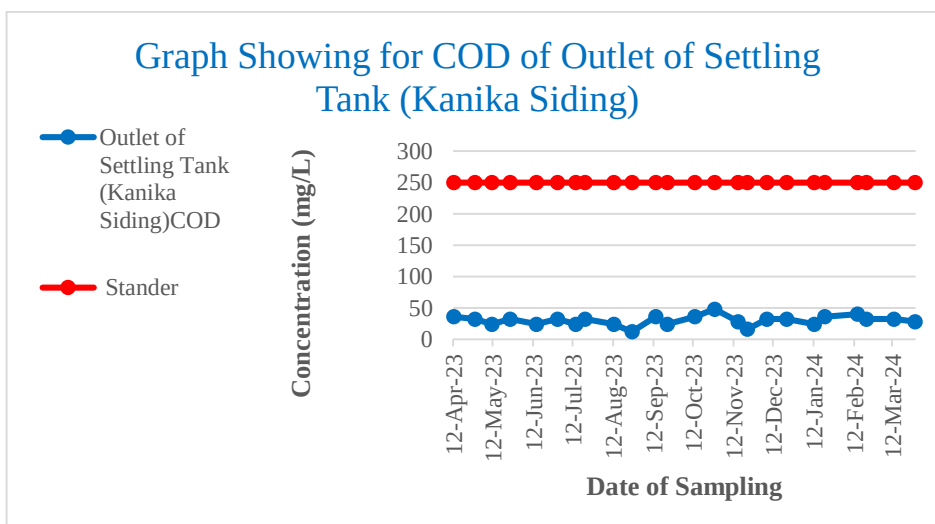
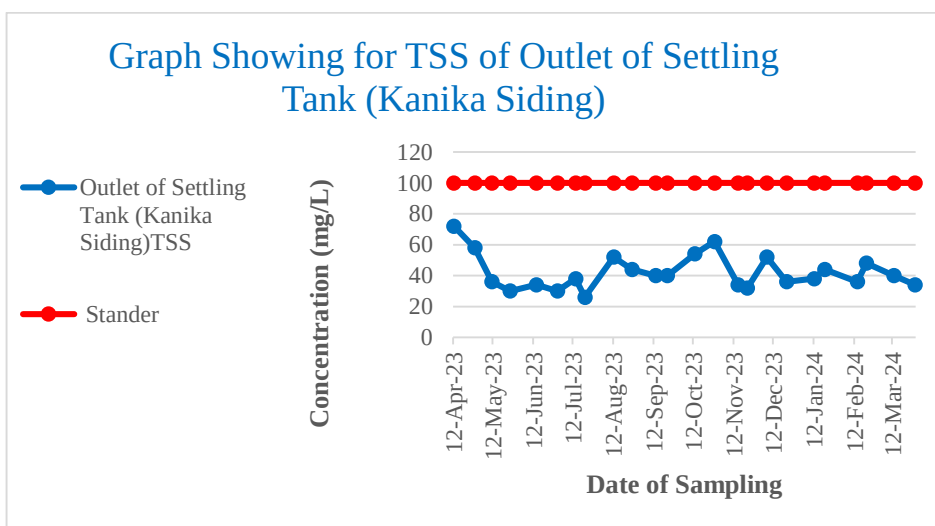
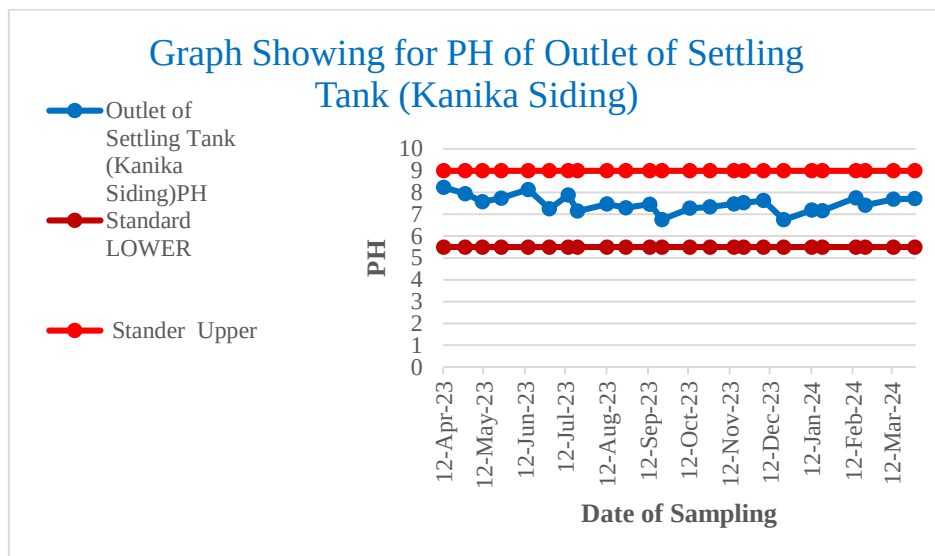


Table:9.33

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.94	<4.0	26	28
28-Apr-23	7.81	<4.0	30	24
11-May-23	7.62	<4.0	22	20
25-May-23	7.66	<4.0	26	16
14-Jun-23	8.19	<4.0	32	24
30-Jun-23	6.96	<4.0	40	32
14-Jul-23	7.91	<4.0	24	20
21-Jul-23	7.06	<4.0	22	24
12-Aug-23	7.52	<4.0	38	32
26-Aug-23	7.24	<4.0	34	44
13-Sep-23	7.42	<4.0	30	20
22-Sep-23	6.83	<4.0	32	20
13-Oct-23	7.22	<4.0	26	16
28-Oct-23	7.2	<4.0	34	20
15-Nov-23	7.23	<4.0	26	12
22-Nov-23	7.3	<4.0	28	20
07-Dec-23	8.24	<4.0	22	12
22-Dec-23	6.44	<4.0	24	16
12-Jan-24	7.33	<4.0	26	20
20-Jan-24	7.25	<4.0	30	24
14-Feb-24	7.54	<4.0	24	16
21-Feb-24	7.24	<4.0	36	28
13-Mar-24	7.47	<4.0	32	20
29-Mar-24	7.45	<4.0	26	16

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

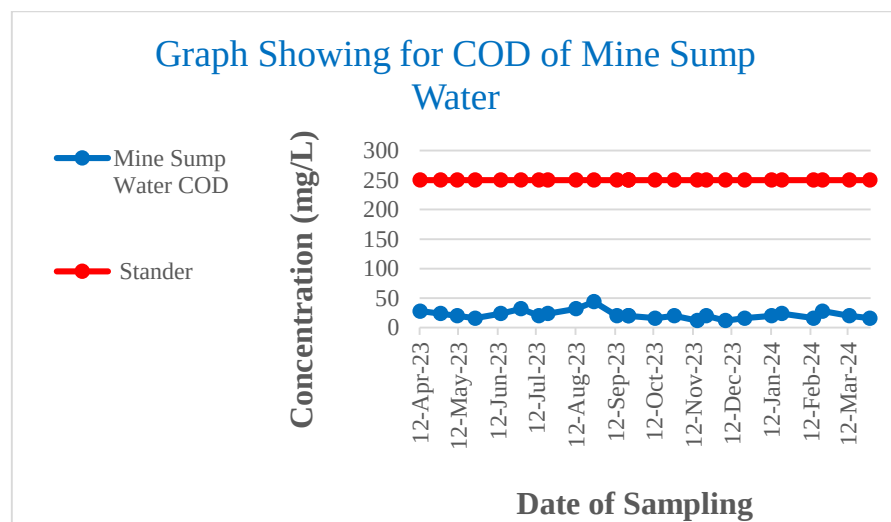
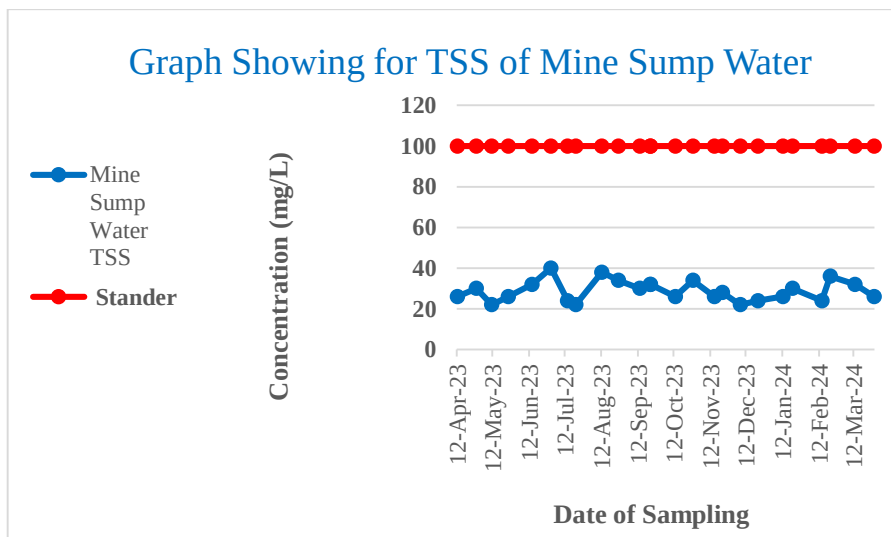
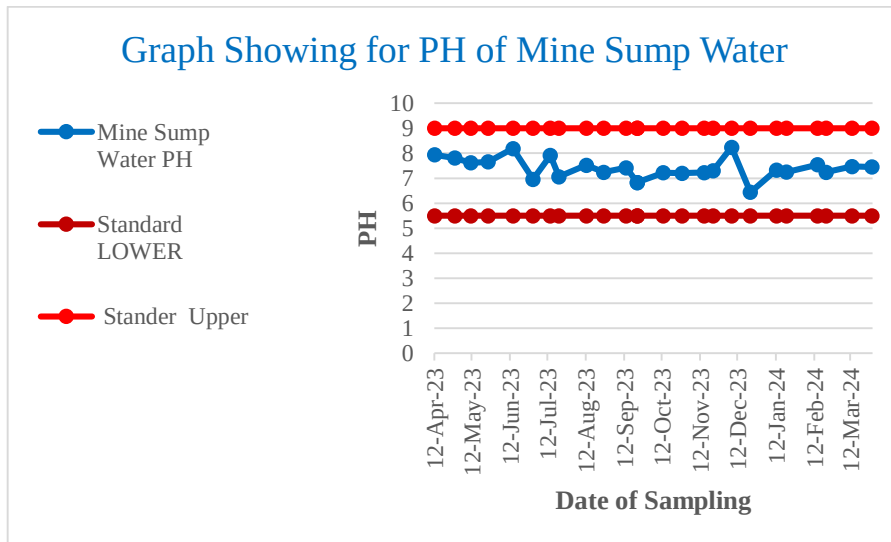


Table:9.34

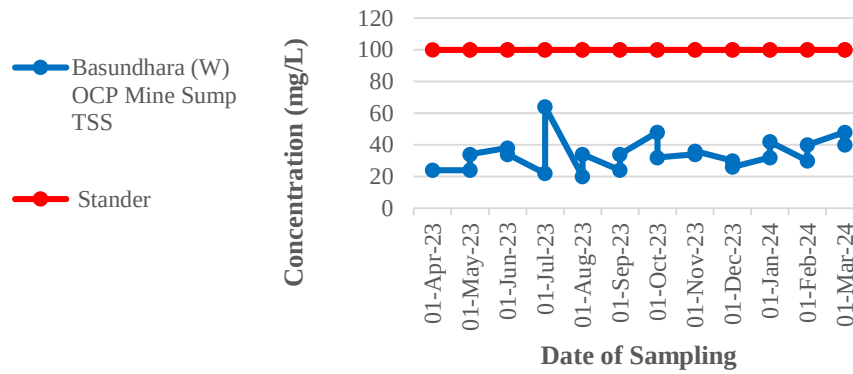
Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring station:** Basundhara (W) OCP Mine Sump

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.72	<4.0	24	12
11-May-23	7.83	<4.0	24	20
25-May-23	7.61	<4.0	34	20
14-Jun-23	7.92	<4.0	38	28
28-Jun-23	7.59	<4.0	34	16
14-Jul-23	7.96	<4.0	22	32
21-Jul-23	7.35	<4.0	64	20
12-Aug-23	7.48	<4.0	20	32
26-Aug-23	7.27	<4.0	34	20
13-Sep-23	7.48	<4.0	24	20
22-Sep-23	6.79	<4.0	34	16
13-Oct-23	7.09	<4.0	48	20
28-Oct-23	7.42	<4.0	32	24
15-Nov-23	7.19	<4.0	34	20
22-Nov-23	7.24	<4.0	36	24
07-Dec-23	8.2	<4.0	30	24
22-Dec-23	6.51	<4.0	26	32
12-Jan-24	7.69	<4.0	32	12
20-Jan-24	7.53	<4.0	42	24
14-Feb-24	7.47	<4.0	30	20
21-Feb-24	7.34	<4.0	40	32
13-Mar-24	7.59	<4.0	48	44
29-Mar-24	7.73	<4.0	40	28

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing TSS for Basundhara (W) OCP Mine Sump



Graph Showing COD for Basundhara (W) OCP Mine Sump

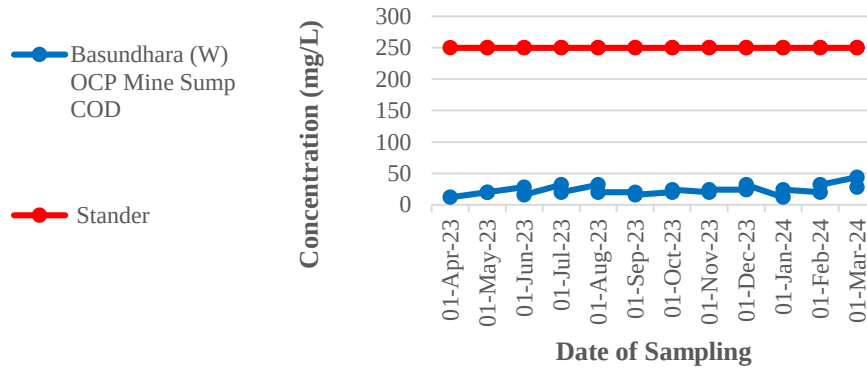


Table:9.35

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring station:** Inlet of Settling Pond at Excavation Workshop, B(W) OCP

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Jun-23	7.8	<4.0	28	24
13-Sep-23	7.76	4.8	78	48
07-Dec-23	7.9	5.8	148	128

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

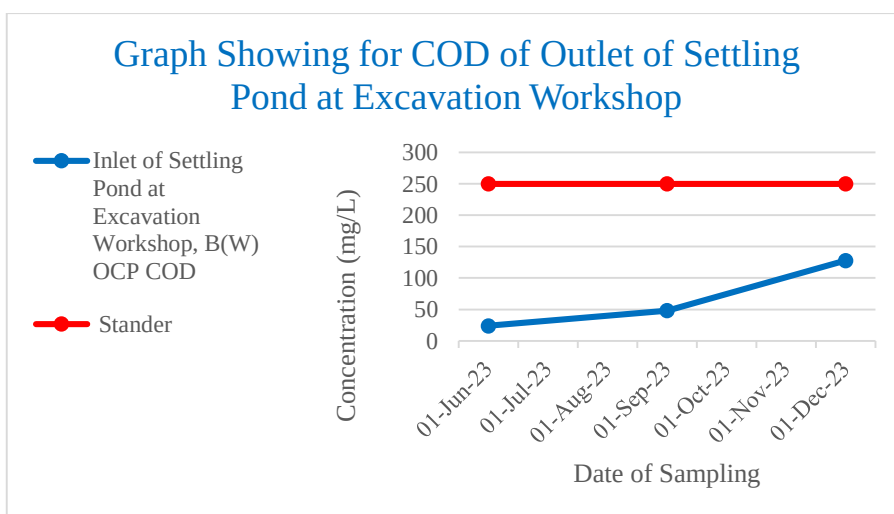
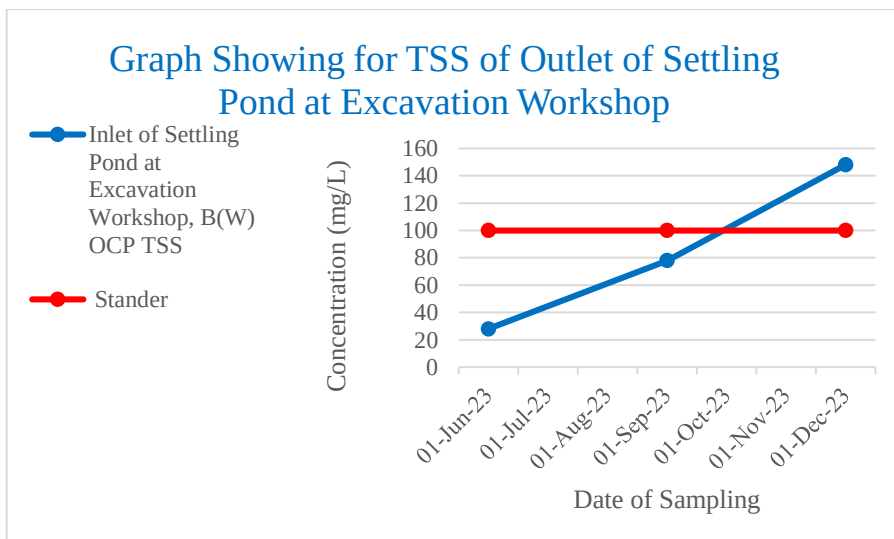
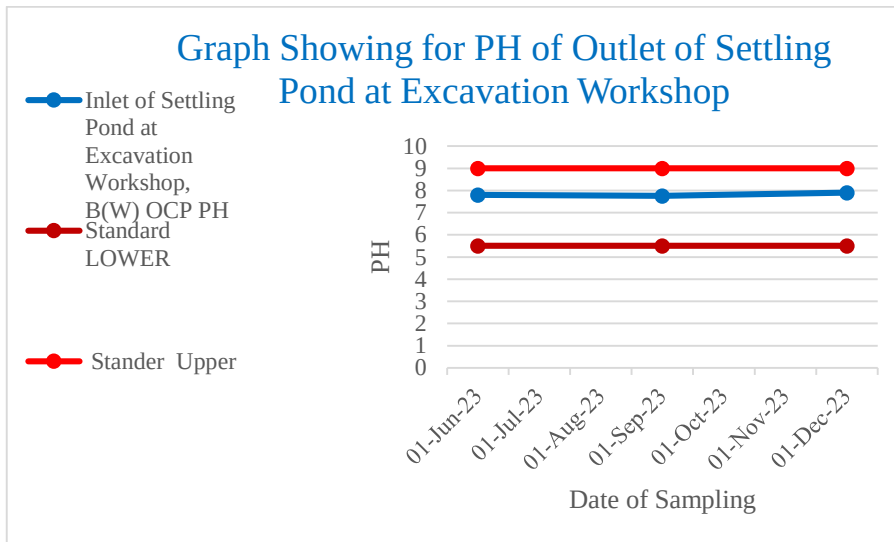


Table:9.36

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring station:** M1-Basundhara (E) OCP's Sump

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	8.03	<4.0	30	24
28-Apr-23	7.89	<4.0	38	20
11-May-23	7.63	<4.0	20	12
25-May-23	7.49	<4.0	26	16
14-Jun-23	8.23	<4.0	44	36
30-Jun-23	6.12	<4.0	40	24
14-Jul-23	8.14	<4.0	18	24
21-Jul-23	6.92	<4.0	26	40
12-Aug-23	7.83	<4.0	22	12
26-Aug-23	7.66	<4.0	28	28
13-Sep-23	7.52	<4.0	18	24
22-Sep-23	6.72	<4.0	30	20
13-Oct-23	7.28	<4.0	22	12
28-Oct-23	7.33	<4.0	36	16
15-Nov-23	7.33	<4.0	28	16
22-Nov-23	7.29	<4.0	30	12
07-Dec-23	8.25	<4.0	26	16
22-Dec-23	6.58	<4.0	30	24
12-Jan-24	7.47	<4.0	40	16
20-Jan-24	7.31	<4.0	46	28
14-Feb-24	7.38	<4.0	26	12
21-Feb-24	7.21	<4.0	44	36
13-Mar-24	7.47	<4.0	42	28
29-Mar-24	7.61	<4.0	34	16

All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

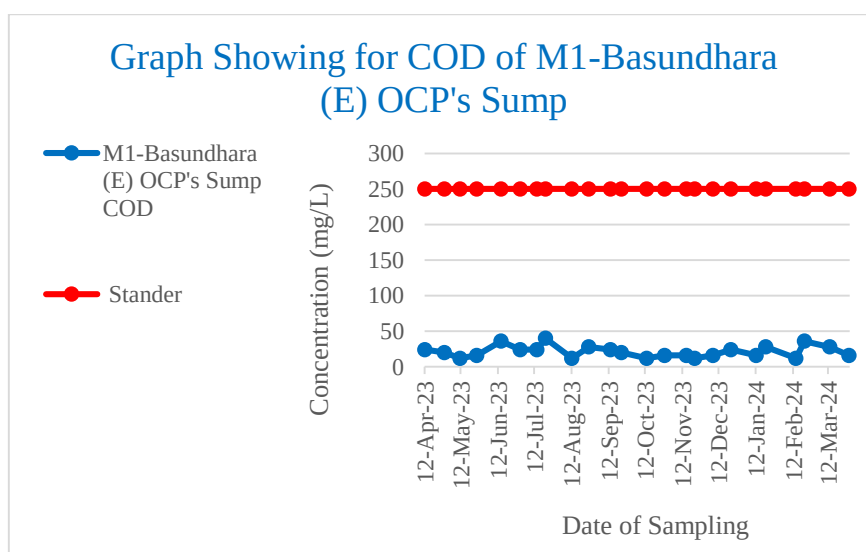
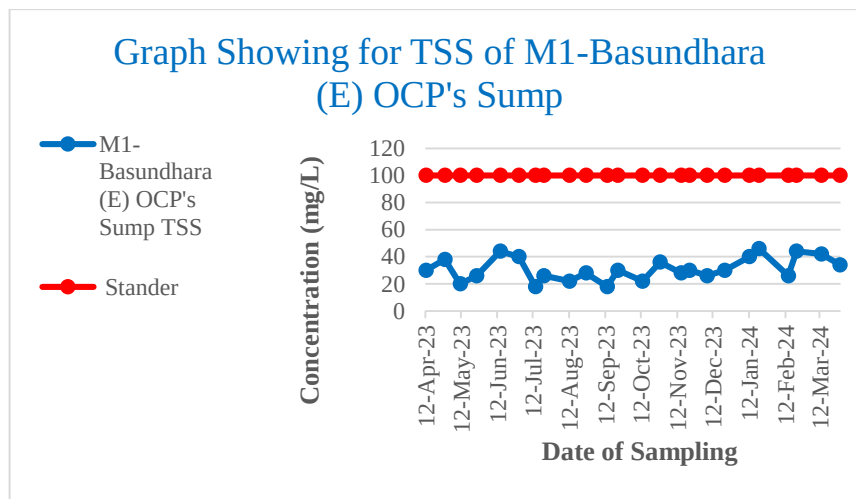
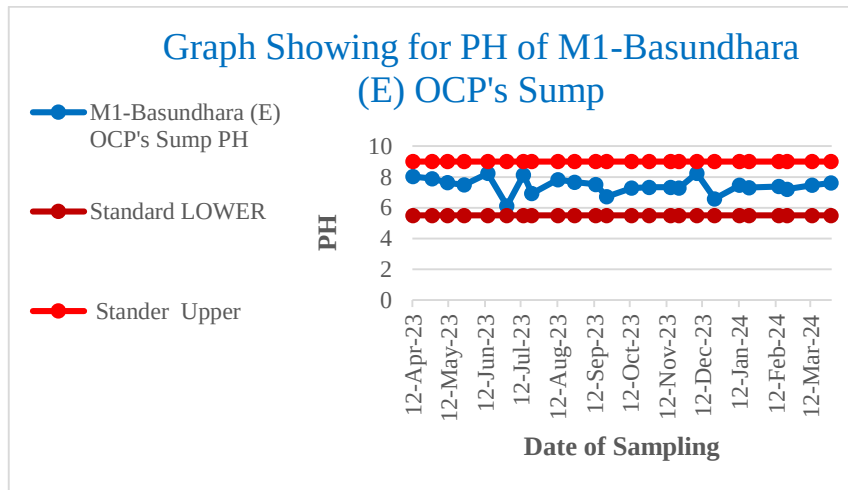


Table:9.37

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring station:** Outlet of Settling Pond at Excavation Workshop, B(W) OCP

Date of Sampling	pH	Oil & Grese	TSS	COD
14-Jun-23	8.16	<4.0	18	16
13-Sep-23	7.93	<4.0	56	32
07-Dec-23	7.95	4.6	112	120

All values are in mg/L except p H & FC (MPN/100 mL))

Table:9.38

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring station:** Outlet of ETP at Excavation Workshop,
B(W)OCP(PH,TSS,O&G,COD)

Date of Sampling	pH	Oil & Grese	TSS	COD
13-Mar-24	7.43	<4.0	36	20

All values are in mg/L except p H & FC (MPN/100 mL))

Table:9.39

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring station:** Inlet to ETP at Excavation Workshop,
B(W)OCP(PH,TSS,COD,O&G)

Date of Sampling	pH	Oil & Grese	TSS	COD
13-Mar-24	7.19	<4.0	48	36

Table:9.40

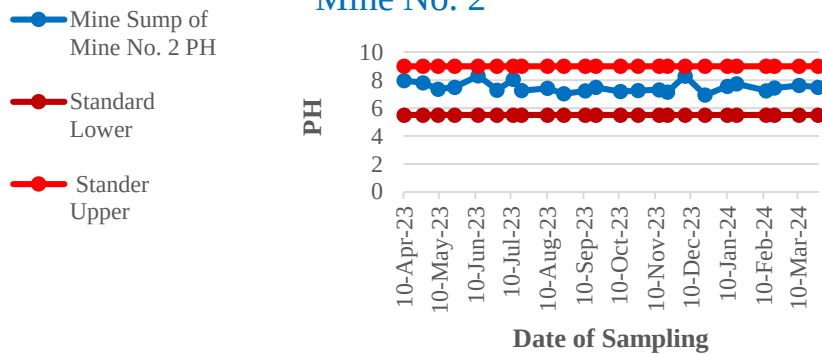
Area: Orient**Project:** Orient Mine No. 1 & 2**Monitoring station:** Mine Sump of Mine No. 2

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.98	<4.0	28	16
26-Apr-23	7.81	<4.0	36	20
09-May-23	7.36	<4.0	30	32
23-May-23	7.49	<4.0	36	28
12-Jun-23	8.31	<4.0	30	20
28-Jun-23	7.29	<4.0	28	28
12-Jul-23	8.06	<4.0	28	32
19-Jul-23	7.25	<4.0	28	44
10-Aug-23	7.42	<4.0	38	24
24-Aug-23	7.03	<4.0	30	36
11-Sep-23	7.23	<4.0	24	32
20-Sep-23	7.48	<4.0	32	16
11-Oct-23	7.19	<4.0	22	12
26-Oct-23	7.25	<4.0	30	16
13-Nov-23	7.31	<4.0	20	12
20-Nov-23	7.15	<4.0	38	24
05-Dec-23	8.3	<4.0	36	40
22-Dec-23	6.93	<4.0	28	32
10-Jan-24	7.56	<4.0	34	32
18-Jan-24	7.73	<4.0	42	36
12-Feb-24	7.24	<4.0	34	32
19-Feb-24	7.44	<4.0	44	48
11-Mar-24	7.62	<4.0	48	32
27-Mar-24	7.49	<4.0	38	40

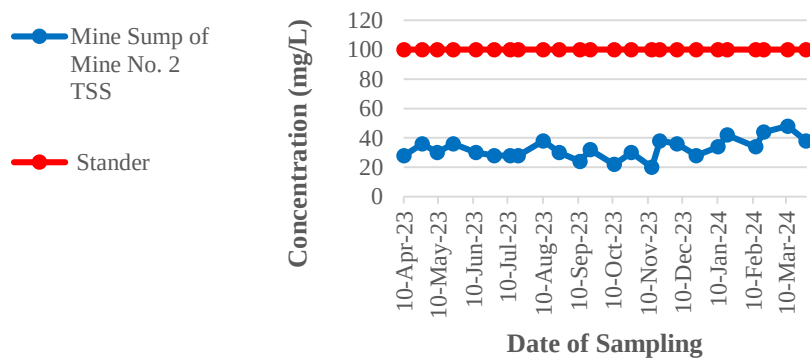
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Mine Sump of
Mine No. 2



Graph Showing for TSS of Mine Sump of
Mine No. 2



Graph Showing for COD of Mine Sump of
Mine No. 2

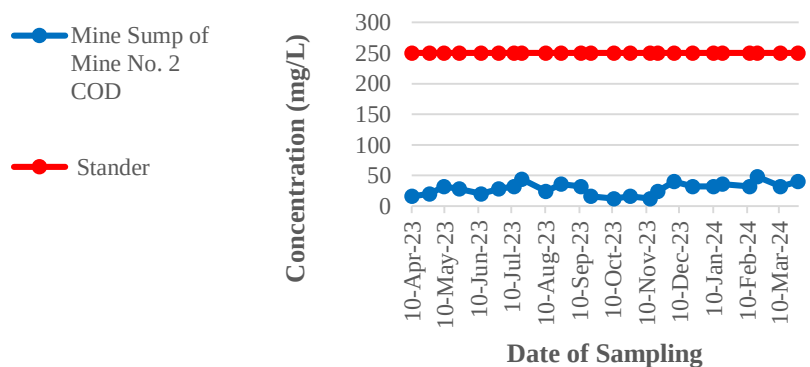


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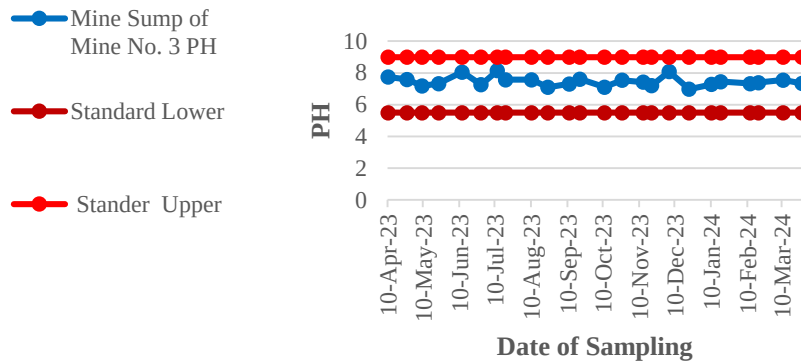
Area: Orient**Project:** Orient Mine No. 3**Monitoring station:** Mine Sump of Mine No. 3

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.75	<4.0	22	12
26-Apr-23	7.59	<4.0	28	24
09-May-23	7.18	<4.0	40	36
23-May-23	7.33	<4.0	32	40
12-Jun-23	8.06	<4.0	26	16
28-Jun-23	7.26	<4.0	32	24
12-Jul-23	8.15	<4.0	30	20
19-Jul-23	7.57	<4.0	18	28
10-Aug-23	7.57	<4.0	40	28
24-Aug-23	7.1	<4.0	36	20
11-Sep-23	7.31	<4.0	28	16
20-Sep-23	7.61	<4.0	36	32
11-Oct-23	7.11	<4.0	36	24
26-Oct-23	7.54	<4.0	24	20
13-Nov-23	7.42	<4.0	26	20
20-Nov-23	7.2	<4.0	40	32
05-Dec-23	8.09	<4.0	32	16
22-Dec-23	6.98	<4.0	22	24
10-Jan-24	7.28	<4.0	38	28
18-Jan-24	7.45	<4.0	46	40
12-Feb-24	7.33	<4.0	16	12
19-Feb-24	7.39	<4.0	38	32
11-Mar-24	7.55	<4.0	34	24
27-Mar-24	7.34	<4.0	26	28

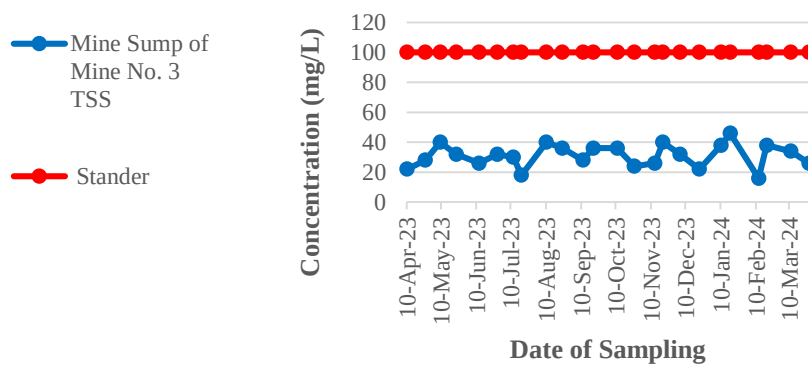
All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Mine Sump of
Mine No. 3



Graph Showing for TSS of Mine Sump of
Mine No. 3



Graph Showing for COD of Mine Sump of
Mine No. 3

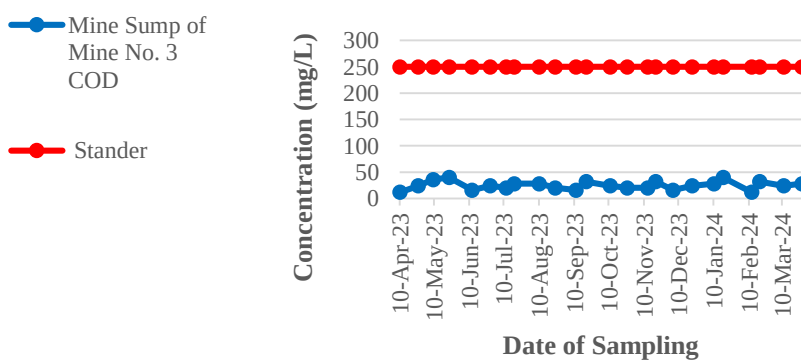


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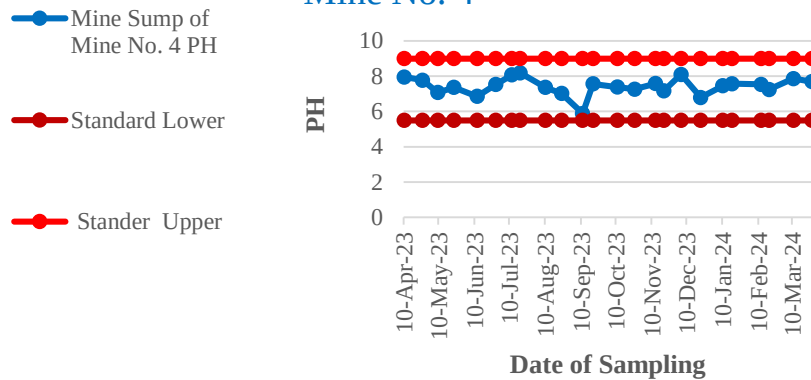
Area: Orient**Project:** Orient Mine No. 4**Monitoring station:** Mine Sump of Mine No. 4

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.95	<4.0	26	24
26-Apr-23	7.77	<4.0	36	20
09-May-23	7.07	<4.0	22	28
23-May-23	7.36	<4.0	28	36
12-Jun-23	6.86	<4.0	30	24
28-Jun-23	7.53	<4.0	26	12
12-Jul-23	8.07	<4.0	30	32
19-Jul-23	8.19	<4.0	38	24
10-Aug-23	7.36	<4.0	44	28
24-Aug-23	7.02	<4.0	32	32
11-Sep-23	5.89	<4.0	36	12
20-Sep-23	7.56	<4.0	44	36
11-Oct-23	7.38	<4.0	24	12
26-Oct-23	7.26	<4.0	34	8
13-Nov-23	7.58	<4.0	18	8
20-Nov-23	7.16	<4.0	28	16
05-Dec-23	8.1	<4.0	26	12
22-Dec-23	6.79	<4.0	22	24
10-Jan-24	7.45	<4.0	28	24
18-Jan-24	7.57	<4.0	34	16
12-Feb-24	7.54	<4.0	26	16
19-Feb-24	7.25	<4.0	40	28
11-Mar-24	7.86	<4.0	46	40
27-Mar-24	7.69	<4.0	54	44

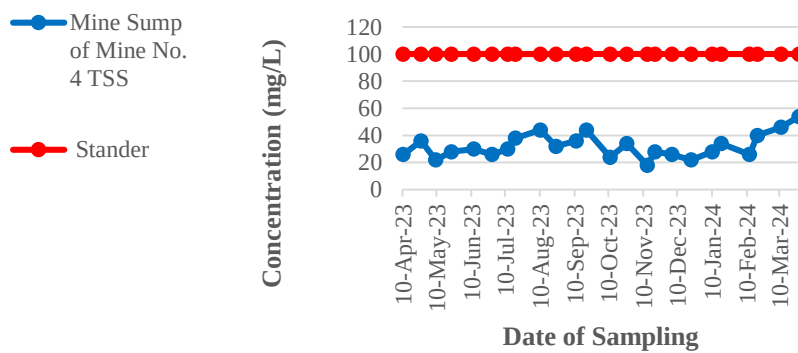
All values are in mg/L except pH & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30

Graph Showing for PH of Mine Sump of Mine No. 4



Graph Showing for TSS of Mine Sump of Mine No. 4



Graph Showing for COD of Mine Sump of Mine No. 4

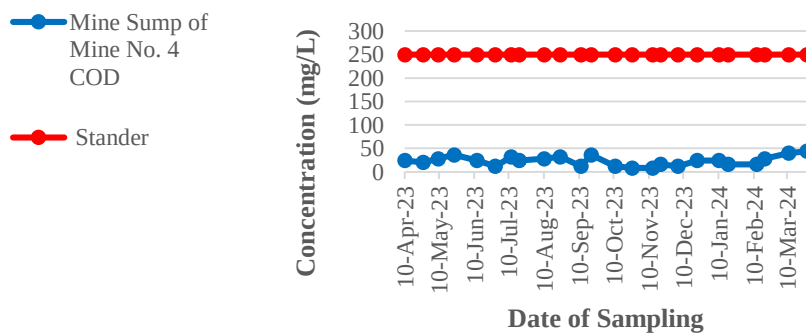


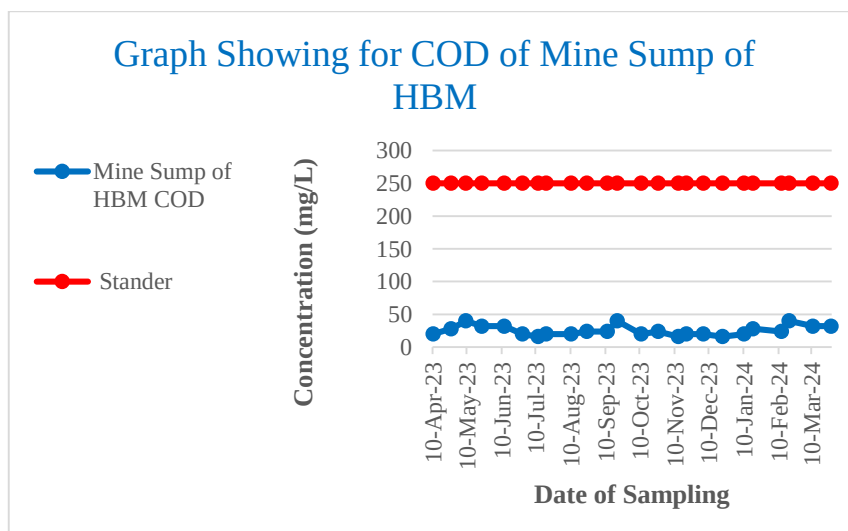
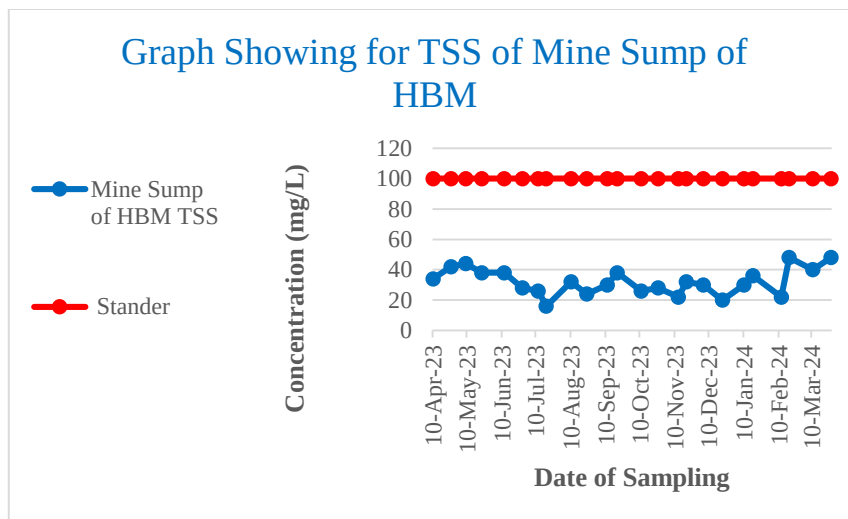
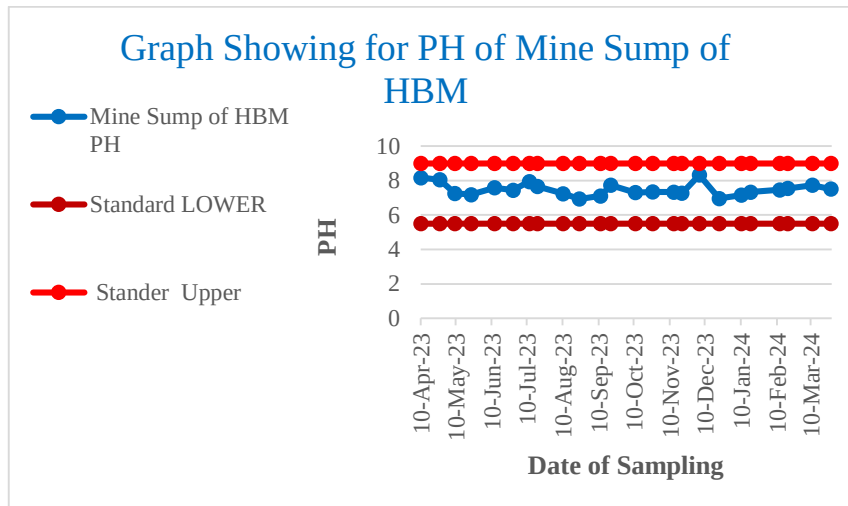
Table:9.43

Area: Orient**Project:** HBI Mine**Monitoring station:** Mine Sump of HBM

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	8.17	<4.0	34	20
26-Apr-23	8.05	<4.0	42	28
09-May-23	7.26	<4.0	44	40
23-May-23	7.19	<4.0	38	32
12-Jun-23	7.59	<4.0	38	32
28-Jun-23	7.45	<4.0	28	20
12-Jul-23	7.95	<4.0	26	16
19-Jul-23	7.66	<4.0	16	20
10-Aug-23	7.24	<4.0	32	20
24-Aug-23	6.93	<4.0	24	24
11-Sep-23	7.11	<4.0	30	24
20-Sep-23	7.73	<4.0	38	40
11-Oct-23	7.31	<4.0	26	20
26-Oct-23	7.34	<4.0	28	24
13-Nov-23	7.33	<4.0	22	16
20-Nov-23	7.27	<4.0	32	20
05-Dec-23	8.33	<4.0	30	20
22-Dec-23	6.96	<4.0	20	16
10-Jan-24	7.16	<4.0	30	20
18-Jan-24	7.33	<4.0	36	28
12-Feb-24	7.46	<4.0	22	24
19-Feb-24	7.55	<4.0	48	40
11-Mar-24	7.73	<4.0	40	32
27-Mar-24	7.51	<4.0	48	32

All values are in mg/L except p H & FC (MPN/100 mL))

MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



EFFLUENT 22 PARAMETERS QUALITY DATA

Table: 9.44

Area: Ib valley

Project: Samleswari OCP

Project (OCP / UG)	Smleswari OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Discharge point of Mine sump water	
Date of Sampling	20-Nov-2023	
Colour(Hazen)	3	—
Odour	Unobjectionable	—
Temperature(°C)	27	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.82	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.33	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.05	3
Zinc(mg/L)	0.1	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.33	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	0.6	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.45

Area: Ib valley**Project:** Samleswari OCP

Project (OCP / UG)	Smleswari OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	20-Nov-2023	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	26	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.49	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.22	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.07	3
Zinc(mg/L)	0.13	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.36	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	0.12	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.46

Area: Ib valley**Project:** Lajkura OCP

Project (OCP / UG)	Lajkura OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Outlet of MDTP	
Date of Sampling	20-Nov-2023	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	28	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.26	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.44	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.09	3
Zinc(mg/L)	1.48	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	1.32	3
Fluoride(mg/L)	0.41	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	7.45	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.47

Area: Ib valley**Project:** Lajkura OCP

Project (OCP / UG)	Lajkura OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	20-Nov-2023	
Colour(Hazen)	3	—
Odour	Unobjectionable	—
Temperature(°C)	23	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.54	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.44	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.03	3
Zinc(mg/L)	1.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	0.97	3
Fluoride(mg/L)	0.34	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	6.91	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.48

Area: Lakhanpur**Project:** Lilari OCP

Project (OCP / UG)	Lilari OCP		MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water		
Date of Sampling	10-May-2023	21-Nov-2023	
Colour(Hazen)	3	1	–
Odour	Unobjectionable	Unobjectionable	–
Temperature(°C)	30	23	
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.46	0.50	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.23	4.44	100
BOD [3 days at 27°C] (mg/L)	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.01	<0.01	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	0.43	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	0.21	3
Fluoride(mg/L)	0.36	0.33	2
Sulphide (mg/L)	0.034	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	1.86	2
Iron(mg/L)	0.1	<0.1	3
Disolved Phosphate(mg/L)	<4	<4	5

Table: 9.49

Area: Lakhanpur**Project:** Lakhanpur OCP

Project (OCP / UG)	Lakhanpur OCP		MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water		
Date of Sampling	10-May-2023	21-Nov-2023	
Colour(Hazen)	2	2	–
Odour	Unobjectionable	Unobjectionable	–
Temperature(°C)	27	22	
Nitrate Nitrogen(mg/L)(As N)	<0.5	0.51	10
Ammonical Nitrogen , mg/l (As N)	0.45	0.78	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.34	2.22	100
BOD [3 days at 27°C] (mg/L)	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.01	<0.01	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	0.47	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	0.21	3
Fluoride(mg/L)	0.32	0.35	2
Sulphide (mg/L)	0.062	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	1.92	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4	<4	5

Table: 9.50

Area: Lakhanpur**Project:** Belpahar OCP

Project (OCP / UG)	Belpahar OCP		MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water		
Date of Sampling	10-May-2023	21-Nov-2023	
Colour(Hazen)	3	3	—
Odour	Unobjectionable	Unobjectionable	—
Temperature(°C)	28	24	
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.36	0.61	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.34	3.33	100
BOD [3 days at 27°C] (mg/L)	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.01	<0.001	2
Copper(mg/L)	<0.03	0.08	3
Zinc(mg/L)	<0.04	0.47	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	0.22	3
Fluoride(mg/L)	0.43	0.40	2
Sulphide (mg/L)	0.019	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	1.83	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4	<4	5

Table: 9.51

Area: Mahalaxmi**Project:** Basundhara OCP

Project (OCP / UG)	Basundhara OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	M1- Basundhara (E) OCP Sump	
Date of Sampling	22-Nov-2023	
Colour(Hazen)	4	–
Odour	Unobjectionable	–
Temperature(°C)	24	
Nitrate Nitrogen(mg/L)(As N)	3.33	10
Ammonical Nitrogen , mg/l (As N)	0.71	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.33	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.07	3
Zinc(mg/L)	0.06	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.45	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.52

Area: Mahalaxmi**Project:** Basundhara OCP

Project (OCP / UG)	Basundhara OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Basundhara (W) OCP Mine Sump	
Date of Sampling	22-Nov-2023	
Colour(Hazen)	4	—
Odour	Unobjectionable	—
Temperature(°C)	23	
Nitrate Nitrogen(mg/L)(As N)	3.35	10
Ammonical Nitrogen , mg/l (As N)	0.70	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.44	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.05	3
Zinc(mg/L)	0.28	5
Selenium(mg/L)	<0.001	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.36	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	0.63	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.53
Area: Basundhara
Project: Kulda OCP

Project (OCP / UG)	Kulda OCP				MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of ETP				
Date of Sampling	11-May-2023	26-Aug-2023	22-Nov-2023	14-Feb-2024	
Colour(Hazen)	1	2	3	3	—
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	—
Temperature (°C)		25.2	27	26	
Nitrate Nitrogen(mg/L) (As N)	<0.5	<0.5	0.79	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.29	1.33	0.57	<0.2	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.34	4.44	2.22	2.25	100
BOD [3 days at 27°C] (mg/L)	<2	<2	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	<0.005	<0.005	0.2
Lead, mg/l	0.023	<0.005	<0.005	<0.005	0.1
Hexavelent Chromium (mg/L)	<0.05	<0.05	<0.05	<0.05	0.1
Total Chromium (mg/L)	<0.10	<0.01	<0.01	<0.01	2
Copper (mg/L)	<0.03	<0.03	0.04	0.06	3
Zinc (mg/L)	0.17	0.05	0.08	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.05
Cadmium (mg/L)	<0.001	<0.001	<0.001	<0.001	2.0
Nickel (mg/L)	0.12	<0.02	<0.1	<0.02	3
Fluoride (mg/L)	0.52	0.43	0.40	0.52	2
Sulphide (mg/L)	0.054	<0.1	<0.1	<0.1	2.0
Phenolic Compounds (mg/L)	<0.001	<0.001	<0.001	<0.001	1.0
Manganese (mg/L)	3.42	<0.04	0.25	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4	<4	<4	<4	5

Table: 9.54

Area: Basundhara**Project:** Kulda OCP

Project (OCP / UG)	Kulda OCP				MoEF-Sch-VI Standards
NAME OF THE STATION	Final Outlet of ETP				
Date of Sampling	11-May-2023	26-Aug-2023	22-Nov-2023	14-Feb-2024	
Colour(Hazen)	2	1	2	4	—
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	—
Temperature(°C)	26	25.3	26	27	
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	0.90	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.52	0.29	0.51	1.16	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.23	1.11	3.33	3.38	100
BOD [3 days at 27°C] (mg/L)	<2	<2	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	<0.005	<0.005	0.2
Lead, mg/l	0.016	<0.005	<0.005	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.10	<0.01	<0.01	<0.01	2
Copper(mg/L)	0.03	<0.03	<0.03	0.06	3
Zinc(mg/L)	0.07	0.05	0.08	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.02	<0.1	<0.02	3
Fluoride(mg/L)	0.46	0.36	0.30	0.48	2
Sulphide (mg/L)	0.041	<0.1	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	<0.001	<0.001	1.0
Manganese(mg/L)	0.23	<0.04	0.09	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4	<4	<4	<4	5

Table: 9.55

Area: Basundhara**Project:** Kulda OCP

Project (OCP / UG)	Kulda OCP				MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water near Kulda Nursery				
Date of Sampling	11-May-2023	26-Aug-2023	22-Nov-2023	14-Feb-2024	
Colour(Hazen)	3	2	2	2	—
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	—
Temperature(°C)		25.1	25	26.5	
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	3.37	<0.05	10
Ammonical Nitrogen , mg/l (As N)	0.27	0.59	0.56	1.29	50
Total Kjeldhal Nitrogen, mg/l (As N)	1.11	2.22	2.22	4.50	100
BOD [3 days at 27°C] (mg/L)	<2	<2	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	<0.005	<0.005	0.2
Lead, mg/l	0.015	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.10	<0.01	<0.01	<0.01	2
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	3
Zinc(mg/L)	0.07	0.11	0.15	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.02	<0.1	<0.02	3
Fluoride(mg/L)	0.63	0.34	0.37	0.72	2
Sulphide (mg/L)	0.077	<0.1	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	<0.001	<0.001	1.0
Manganese(mg/L)	0.5	<0.04	0.08	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4	<4	<4	<4	5

Table: 9.56

Area: Basundhara**Project:** Garjhanbahal OCP

Project (OCP / UG)	Garjhanbahal OCP	
NAME OF THE STATION	Outlet of Settling tank (Kanika Siding)	MoEF-Sch-VI Standards
Date of Sampling	22-Nov-2023	
Colour(Hazen)	3	—
Odour	Unobjectionable	—
Temperature(°C)	26	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.54	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.33	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	0.1	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.37	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.57

Area: Basundhara**Project:** Garjhanbahal OCP

Project (OCP / UG)	Garjhanbahal OCP	
NAME OF THE STATION	Inlet of Settling tank (Kanika Siding)	MoEF-Sch-VI Standards
Date of Sampling	22-Nov-2023	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	26	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.59	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.44	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	<0.1	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.39	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	0.08	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.58

Area: Basundhara**Project:** Garjhanbahal OCP

Project (OCP / UG)	Garjhanbahal OCP	
NAME OF THE STATION	Mine Sump Water	MoEF-Sch-VI Standards
Date of Sampling	22-Nov-2023	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	23	
Nitrate Nitrogen(mg/L)(As N)	3.29	10
Ammonical Nitrogen , mg/l (As N)	0.83	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.22	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.05	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.43	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	0.06	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.59

Area: Orient**Project:** Orient Mine No.2

Project (OCP / UG)	Orient Mine No.2	
NAME OF THE STATION	Mine Sump. of Mine No.2	MoEF-Sch-VI Standards
Date of Sampling	20-Nov-2023	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	23	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.75	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.33	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.04	3
Zinc(mg/L)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.39	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	0.06	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.60

Area: Orient**Project:** Orient Mine No.3

Project (OCP / UG)	Orient Mine No.3	
NAME OF THE STATION	Mine Sump. of Mine No.3	MoEF-Sch-VI Standards
Date of Sampling	20-Nov-2023	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	24	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.02	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.22	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	0.11	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.36	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	0.05	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.61

Area: Orient**Project:** HBI Mine

Project (OCP / UG)	HBI Mine	
NAME OF THE STATION	Mine Sump. of HBM	MoEF-Sch-VI Standards
Date of Sampling	20-Nov-2023	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(oC)	24	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.95	50
Total Kjeldhal Nitrogen, mg/l (As N)	4.44	100
BOD [3 days at 27oC] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	<0.03	3
Zinc(mg/L)	0.08	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.47	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	0.06	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

Table: 9.62

Area: Orient**Project:** Orient Mine No.4

Project (OCP / UG)	Orient Mine No.4	
NAME OF THE STATION	Mine Sump. of Mine No.4	MoEF-Sch-VI Standards
Date of Sampling	20-Nov-2023	
Colour(Hazen)	3	—
Odour	Unobjectionable	—
Temperature(°C)	23	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.51	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.22	100
BOD [3 days at 27°C] (mg/L)	<2	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.01	2
Copper(mg/L)	0.03	3
Zinc(mg/L)	0.08	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.43	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.04	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4	5

9.2.2: SURFACE WATER ANALYSIS RESULTS

Table: 9.63

Area: Ib valley

Project: Samaleswari OCP

Project/OCP	Samaleswari OCP	
NAME OF STATIONS	Pandren Nallah Near Global Washery	
Date of sampling	17-May-23	27-Nov-23
pH	7.95	7.54
Dissolved Oxygen(mg/L)	6.5	5.3
BOD (3 days 27°C (mg/L)	<2	<2
Color (Hazen unit)	3	3
Total dissolved solids (mg/L)	148	168
TSS(mg/L)	28	28
Total Hardness(mg/L)	60	100.81
Copper(mg/L)	0.04	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	19.82	15.55
Sulphate(mg/L)	15.36	47.80
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.38
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	0.007	<0.005
Zinc(mg/L)	0.05	0.04
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	11	25
Hexavalent Chromium,(mg/L)	-	<0.05

Table:9.64
Area: Ib valley
Project: Samaleswari OCP

Project/OCP	Samaleswari OCP	
NAME OF STATIONS	Pandren Nallah Before Confluence Point With Lilari Nallah	
Date of Sampling	17-May-23	27-Nov-23
pH	8.06	7.69
Dissolved Oxygen(mg/L)	5.8	6.8
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	4	2
Total dissolved solids (mg/L)	142	174
TSS(mg/L)	32	32
Total Hardness(mg/L)	60	116.94
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	17.84	17.5
Sulphate(mg/L)	10.53	46.59
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.41
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.05	0.06
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	12	26
Hexavalent Chromium,(mg/L)	--	<0.05

Table:9.65
Area: Ib valley
Project: Samaleswari OCP

Project/OCP	Samaleswari OCP	
NAME OF STATIONS	Lajkura Pond Water	
Date of Sampling	17-May-23	27-Nov-23
pH	8.13	7.78
Dissolved Oxygen(mg/L)	6.1	5.9
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	1	3
Total dissolved solids (mg/L)	388	382
TSS(mg/L)	38.52	38
Total Hardness(mg/L)	285	274.20
Copper(mg/L)	0.04	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	35.68	36.94
Sulphate(mg/L)	95.37	127.32
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.33
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.18	0.11
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	6.1	21
Hexavalent Chromium,(mg/L)	--	<0.05

Table: 9.66
Area: Ib valley
Project: Lajkura OCP

Project/OCP	Lajkura OCP	
NAME OF STATIONS	U/S of Baghmara Nala at Discharge Point	
Date of Sampling	17-May-23	27-Nov-23
pH	8.18	7.59
Dissolved Oxygen(mg/L)	6.8	6.4
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	1
Total dissolved solids (mg/L)	128	128
TSS(mg/L)	28	36
Total Hardness(mg/L)	68	84.68
Copper(mg/L)	0.05	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	17.84	9.72
Sulphate(mg/L)	21.31	13.78
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.36
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.13	0.06
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	11	12
Hexavalent Chromium,(mg/L)	--	<0.05

Table:9.67
Area: Ib valley
Project: Lajkura OCP

Project/OCP	Lajkura OCP	
NAME OF STATIONS	D/S of Baghmara Nala at Discharge Point	
Date of sampling	17-May-23	27-Nov-23
pH	8.32	7.71
Dissolved Oxygen(mg/L)	6.4	6.2
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	1	2
Total dissolved solids (mg/L)	134	148
TSS(mg/L)	34	44
Total Hardness(mg/L)	72	104.84
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	19.82	11.66
Sulphate(mg/L)	24.52	11.83
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.93
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	0.014	<0.005
Zinc(mg/L)	0.09	0.07
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	9.1	17
Hexavalent Chromium,(mg/L)	--	<0.05

Table: 9.68

Area: Lakhanpur**Project:** Lakhanpur

Project/OCP	Lakhanpur			
NAME OF STATIONS	Pulijhor Stream Near Tingismal Village as u/s for Lakhanpur OCP			
Date of sampling	18-May-23	22-Aug-23	28-Nov-23	29-Jan-24
pH	7.72	7.20	7.41	7.61
Dissolved Oxygen(mg/L)	7.0	8.0	6.8	6.9
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	4	3	2	3
Total dissolved solids (mg/L)	64	62	162	190
TSS(mg/L)	36	34	22	30
Total Hardness(mg/L)	32.0	33.0	96.78	88.48
Copper(mg/L)	<0.03	<0.03	<0.03	0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	19.82	20.00	9.72	14
Sulphate(mg/L)	13.27	13.00	63.17	58.21
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	<0.3	0.35	0.64
Cadmium(mg/L)	0.0018	0.0018	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	0.011	0.011	<0.005	<0.005
Zinc(mg/L)	0.090	0.090	0.05	0.09
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	6.8	10	10	43
Hexavalent Chromium,(mg/L)	-	<0.05	<0.05	<0.05

Table: 9.69
Area: Lakhanpur
Project: Lakhanpur

Project/OCF	Lakhanpur			
NAME OF STATIONS	Pulijhor stream Near Darlipalil Village before Confluence to Lilari Nallah as d/s Water of Lakhanpur OCP			
Date of sampling	18-May-23	22-Aug-23	28-Nov-23	29-Jan-24
pH	7.83	7.70	7.49	7.72
Dissolved Oxygen(mg/L)	6.2	7.0	6.4	6.8
BOD (3 days 27°c(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	2	2	1	4
Total dissolved solids (mg/L)	68	67	348	376
TSS(mg/L)	44	42	28	36
Total Hardness(mg/L)	36.0	37.0	262.11	253.36
Copper(mg/L)	<0.03	<0.03	<0.03	0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	21.80	22.00	11.66	15.66
Sulphate(mg/L)	9.71	10.00	136.34	143.6
Nitrate(mg/L)	<2	<2	<2.0	<2.0
Fluoride(mg/L)	<0.3	<0.3	0.43	0.78
Cadmium(mg/L)	0.0016	0.0016	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	0.010	0.010	<0.005	<0.005
Zinc(mg/L)	0.110	0.110	0.05	0.08
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	6	11	17	48
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.70
Area: Lakhanpur
Project: Lakhanpur

	Lakhanpur			
NAME OF STATIONS	Lilari Nallah Near Kudaloi Village as u/s of Lakhanpur OCP			
Date of sampling	18-May-23	22-Aug-23	28-Nov-23	29-Jan-24
pH	7.69	7.06	7.32	7.48
Dissolved Oxygen(mg/L)	5.8	6.8	6.3	6.8
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	2	2	1
Total dissolved solids (mg/L)	56	58	188	206
TSS(mg/L)	42	50	30	38
Total Hardness(mg/L)	32.0	16.19	125.00	112.60
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	0.15	<0.1	<0.1
Chlorides(mg/L)	17.8	5.95	9.72	17.61
Sulphate(mg/L)	3.17	24.25	63.29	64.23
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.36	0.41	0.53
Cadmium(mg/L)	0.0014	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	0.011	<0.005	<0.005	<0.005
Zinc(mg/L)	0.13	0.08	<0.04	0.08
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	12	23	26	40
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.71
Area: Lakhanpur
Project: Lakhanpur

Project/OCP	Lakhanpur			
NAME OF STATIONS	Lilari Nallah Near Lilari Bridge as d/s of Lakhanpur OCP			
Date of sampling	18-May-23	22-Aug-23	28-Nov-23	29-Jan-24
pH	7.74	7.18	7.38	7.56
Dissolved Oxygen(mg/L)	5.2	6.4	5.9	6.3
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	4	4	5
Total dissolved solids (mg/L)	60	66	332	358
TSS(mg/L)	54	56	42	46
Total Hardness(mg/L)	36	20.24	262.11	241.3
Copper(mg/L)	<0.03	<0.03	<0.03	0.03
Iron(mg/L)	<0.1	0.14	<0.1	<0.1
Chlorides(mg/L)	19.82	5.95	13.61	19.57
Sulphate(mg/L)	5.29	23.25	130.12	163.9
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.47	0.47	0.66
Cadmium(mg/L)	0.0017	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	0.010	<0.005	<0.005	<0.005
Zinc(mg/L)	0.10	0.07	0.04	0.06
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	9.2	26	32	47
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.72
Area: Lakhanpur
Project: Lakhanpur

Project/OCP	Lakhanpur			
NAME OF STATIONS	Karlajori Pond			
Date of sampling	18-May-23	22-Aug-23	28-Nov-23	29-Jan-24
pH	8.12	7.08	7.61	7.48
Dissolved Oxygen(mg/L)	6.9	7.0	5.4	6.2
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	4	3	2	2
Total dissolved solids (mg/L)	128	62	82	90
TSS(mg/L)	62	55	30	36
Total Hardness(mg/L)	40.0	40.0	56.45	48.26
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	51.53	50	7.78	9.78
Sulphate(mg/L)	8.34	8.00	8.05	10.23
Nitrate(mg/L)	<2	<2	<2.0	<2.0
Fluoride(mg/L)	<0.3	<0.3	0.33	0.39
Cadmium(mg/L)	0.0013	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	0.07	0.07	<0.04	0.04
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	11	20	31	58
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.73

Area: Lakhanpur**Project:** Belpahar

Project/OCF	Belpahar			
NAME OF STATIONS	Adhapada village			
Date of sampling	18-May-23	22-Aug-23	28-Nov-23	29-Jan-24
pH	7.91	7.11	7.45	7.57
Dissolved Oxygen(mg/L)	6.0	6.3	5.8	6.5
BOD (3 days 27°C(mg/L)	<2.0	<2	<2	<2
Color (Hazen unit)	1	3	1	1
Total dissolved solids (mg/L)	110	59	88	96
TSS(mg/L)	36	49	20	32
Total Hardness(mg/L)	44	17.00	60.49	68.37
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	35.68	36.00	9.72	11.74
Sulphate(mg/L)	12.67	13.00	5.37	6.23
Nitrate(mg/L)	<2	<2	<2.0	<2.0
Fluoride(mg/L)	<0.3	<0.3	0.31	0.48
Cadmium(mg/L)	0.0012	0.0012	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	0.11	0.11	<0.04	0.05
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	15	26	32	70
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.74

Area: Mahalaxmi**Project:** Basundhara (W)

Project/OCP	Basundhara (W)	
NAME OF STATIONS	Basundhara River u/s point near Tilkipara	
Date of sampling	23-Aug-23	30-Jan-24
pH	7.33	7.49
Dissolved Oxygen(mg/L)	6.6	6.6
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	3
Total dissolved solids (mg/L)	70	82
TSS(mg/L)	36	34
Total Hardness(mg/L)	24.29	32.17
Copper(mg/L)	<0.03	0.04
Iron(mg/L)	0.14	<0.1
Chlorides(mg/L)	3.96	7.83
Sulphate(mg/L)	27.63	32.14
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.43	0.51
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.09	0.05
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	12	41
Hexavalent Chromium,(mg/L)	<0.05	<0.05

Table: 9.75

Area: Mahalaxmi**Project:** Basundhara (W)

Project/OCP	Basundhara (W)	
NAME OF STATIONS	Basundhara River d/s point near Tilkipara	
Date of sampling	23-Aug-23	30-Jan-24
pH	7.39	7.60
Dissolved Oxygen(mg/L)	6.5	6.0
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	4	4
Total dissolved solids (mg/L)	78	86
TSS(mg/L)	44	38
Total Hardness(mg/L)	16.19	24.13
Copper(mg/L)	<0.03	0.03
Iron(mg/L)	0.13	<0.1
Chlorides(mg/L)	5.95	9.78
Sulphate(mg/L)	29.13	26.12
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.48	0.64
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.09	0.05
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	17	49
Hexavalent Chromium,(mg/L)	<0.05	<0.05

Table: 9.76

Area: Basundhara**Project:** Kulda OCP

Project/OCP	Kulda OCP			
NAME OF STATIONS	Basundhara River near Bankibahal bridge as u/s water			
Date of sampling	19-May-23	23-Aug-23	29-Nov-23	30-Jan-24
pH	7.95	7.28	7.57	7.39
Dissolved Oxygen(mg/L)	6.4	6.3	6.7	6.7
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	3	2	1
Total dissolved solids (mg/L)	82	68	128	142
TSS(mg/L)	40	42	22	30
Total Hardness(mg/L)	40	20.24	104.84	84.45
Copper(mg/L)	<0.03	<0.03	<0.03	0.04
Iron(mg/L)	<0.1	0.21	<0.1	<0.1
Chlorides(mg/L)	21.8	3.96	7.78	11.74
Sulphate(mg/L)	16.24	27.00	13.66	16.28
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.35	0.39	0.42
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	<0.04	0.05	<0.04	0.04
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	9.2	14	33	31
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.77

Area: Basundhara**Project:** Kulda OCP

Project/OCP	Kulda OCP			
NAME OF STATIONS	Basundhara River near Barpali Village as d/s water			
Date of sampling	19-May-23	23-Aug-23	29-Nov-23	30-Jan-24
pH	8.19	7.19	7.63	7.51
Dissolved Oxygen(mg/L)	6.1	6	6.0	6.2
BOD (3 days 27°C(mg/L)	<2.0	<2	<2	<2
Color (Hazen unit)	1	4	1	2
Total dissolved solids (mg/L)	104	128	92	108
TSS(mg/L)	44	33	28	38
Total Hardness(mg/L)	56	68	52.42	64.35
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	0.13	<0.1	0.11
Chlorides(mg/L)	23.78	23.78	9.72	14
Sulphate(mg/L)	17.32	17.32	16.83	18.31
Nitrate(mg/L)	<2	<2	<2.0	<2.0
Fluoride(mg/L)	<0.3	<0.3	0.46	0.56
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	0.07	0.09	<0.04	<0.04
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	8.3	21	40	43
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.78

Area: Basundhara**Project:** Kulda OCP

Project/OCP	Kulda OCP			
NAME OF STATIONS	Chattanjhor near Tumulia village as u/s water			
Date of sampling	19-May-23	23-Aug-23	29-Nov-23	30-Jan-24
pH	7.85	7.16	7.48	7.61
Dissolved Oxygen(mg/L)	5.7	6.6	6.3	6.2
BOD (3 days 27°C(mg/L)	<2.0	<2	<2	<2
Color (Hazen unit)	2	1	3	2
Total dissolved solids (mg/L)	52	80	88	94
TSS(mg/L)	36	48	38	32
Total Hardness(mg/L)	20	28.34	52.42	44.24
Copper(mg/L)	0.05	<0.03	<0.03	0.03
Iron(mg/L)	0.1	0.18	<0.1	<0.1
Chlorides(mg/L)	7.93	5.95	9.72	9.78
Sulphate(mg/L)	14.36	21.13	6.22	8.34
Nitrate(mg/L)	<2	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.34	0.37	0.46
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	0.07	0.08	<0.04	0.05
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	10	21	32	33
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.79

Area: Basundhara**Project:** Kulda OCP

Project/OCP	Kulda OCP			
NAME OF STATIONS	Chattanjhor near Siarmal chowk as d/s water			
Date of sampling	19-May-23	23-Aug-23	29-Nov-23	30-Jan-24
pH	7.96	7.25	7.55	7.69
Dissolved Oxygen(mg/L)	5.1	6.4	5.8	5.8
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	4	2	4	4
Total dissolved solids (mg/L)	64	64	76	82
TSS(mg/L)	42	52	32	26
Total Hardness(mg/L)	44	24.29	40.32	32.17
Copper(mg/L)	0.03	<0.03	<0.03	0.03
Iron(mg/L)	0.16	0.19	<0.1	<0.1
Chlorides(mg/L)	9.91	5.95	7.78	7.83
Sulphate(mg/L)	13.47	22.88	6.71	9.23
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.39	0.44	0.72
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	0.12	0.06	<0.04	0.06
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	10	23	38	39
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.80

Area: Basundhara**Project:** Kulda OCP

Project/OCP	Kulda OCP			
NAME OF STATIONS	Kund pond water			
Date of sampling	19-May-23	23-Aug-23	29-Nov-23	30-Jan-24
pH	7.51	7.11	7.43	7.31
Dissolved Oxygen(mg/L)	6.3	6.4	6.0	6.6
BOD (3 days 27°C (mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	3	2	4
Total dissolved solids (mg/L)	50	52	80	96
TSS(mg/L)	32	56	38	34
Total Hardness(mg/L)	32	12.15	56.45	56.30
Copper(mg/L)	0.04	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	0.32	<0.1	0.11
Chlorides(mg/L)	11.89	3.96	5.83	9.78
Sulphate(mg/L)	9.24	29.75	7.93	5.86
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.37	0.37	0.48
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	<0.04	0.06	<0.04	0.04
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	13	26	47	84
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.81**Area: Basundhara****Project: Garjanbahal**

Project/OCP	Garjanbahal
NAME OF STATIONS	Basundhara River near Bankibahal bridge as u/s water (Reported only)
Date of sampling	19-May-23
pH	7.95
Dissolved Oxygen(mg/L)	6.4
BOD (3 days 27°C(mg/L)	<2
Color (Hazen unit)	3
Total dissolved solids (mg/L)	82
TSS(mg/L)	40
Total Hardness(mg/L)	40
Copper(mg/L)	<0.03
Iron(mg/L)	<0.1
Chlorides(mg/L)	21.8
Sulphate(mg/L)	16.24
Nitrate(mg/L)	<2.0
Fluoride(mg/L)	<0.3
Cadmium(mg/L)	<0.001
Arsenic(mg/L)	<0.005
Lead(mg/L)	<0.005
Zinc(mg/L)	<0.04
Oil & Grease (mg/L)	<4.0
Selenium(mg/L)	<0.005
Total Chromium (mg/L)	<0.01
Phenolics(mg/L)	<0.001
MPN (Index/100 ml)	9.2
Hexavalent Chromium,(mg/L)	--

Table: 9.82**Area:** Basundhara**Project:** Garjanbahal

Project/OCP	Garjanbahal
NAME OF STATIONS	Basundhara River near Barpali Village as d/s water (Reported only)
Date of sampling	19-May-23
pH	8.19
Dissolved Oxygen(mg/L)	6.1
BOD (3 days 27°C(mg/L)	<2.0
Color (Hazen unit)	1
Total dissolved solids (mg/L)	104
TSS(mg/L)	44
Total Hardness(mg/L)	56
Copper(mg/L)	<0.03
Iron(mg/L)	<0.1
Chlorides(mg/L)	23.78
Sulphate(mg/L)	17.32
Nitrate(mg/L)	<2
Fluoride(mg/L)	<0.3
Cadmium(mg/L)	<0.001
Arsenic(mg/L)	<0.005
Lead(mg/L)	<0.005
Zinc(mg/L)	0.07
Oil & Grease (mg/L)	<4.0
Selenium(mg/L)	<0.005
Total Chromium (mg/L)	<0.01
Phenolics(mg/L)	<0.001
MPN (Index/100 ml)	8.3

Table: 9.83**Area: Basundhara****Project: Garjanbahal**

Project/OCP	Garjanbahal			
NAME OF STATIONS	Basundhara River near Bandhpalli village as d/s water			
Date of sampling	19-May-23	23-Aug-23	29-Nov-23	30-Jan-24
pH	7.88	8.32	7.54	7.42
Dissolved Oxygen(mg/L)	6.6	6.4	6.7	6.0
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	4	1	1	3
Total dissolved solids (mg/L)	118	134	72	84
TSS(mg/L)	40	34	30	38
Total Hardness(mg/L)	56	72	48.39	48.26
Copper(mg/L)	0.05	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	19.82	19.82	7.78	5.87
Sulphate(mg/L)	30.55	24.52	5.98	8.12
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	<0.3	0.31	0.40
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	0.014	<0.005	<0.005
Zinc(mg/L)	<0.04	0.09	<0.04	<0.04
Oil & Grease (mg/L)	<4.0	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001
MPN (Index/100 ml)	6.8	12	39	58
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05	<0.05

Table: 9.84

Area: Orient**Project:** Orient Mine No. 1 & 2

Project/OCP	Orient Mine No. 1 & 2	
NAME OF STATIONS	U/S of Baghmara stream at Discharge Point	
Date of sampling	19-May-23	27-Nov-23
pH	8.01	7.67
Dissolved Oxygen(mg/L)	5.5	6.6
BOD (3 days 27°C(mg/L)	<2.0	<2
Color (Hazen unit)	3	1
Total dissolved solids (mg/L)	130	104
TSS(mg/L)	36	36
Total Hardness(mg/L)	68.0	56.45
Copper(mg/L)	0	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	19.82	9.72
Sulphate(mg/L)	24.48	12.07
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.37
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.06	0.05
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	8.3	14
Hexavalent Chromium,(mg/L)	--	<0.05

Table: 9.85

Area: Orient**Project:** Orient Mine No. 1 & 2

Project/OCP	Orient Mine No. 1 & 2		
NAME OF STATIONS	D/S of Baghmara stream at Discharge Point		
Date of sampling	19-May-23	27-Nov-23	27-Nov-23
pH	8.12	7.70	7.70
Dissolved Oxygen(mg/L)	5.1	6.3	6.3
BOD (3 days 27°C(mg/L)	<2.0	<2	<2
Color (Hazen unit)	1	2	2
Total dissolved solids (mg/L)	138	122	122
TSS(mg/L)	44	44	44
Total Hardness(mg/L)	60.0	68.55	68.55
Copper(mg/L)	0	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1
Chlorides(mg/L)	21.8	11.66	11.66
Sulphate(mg/L)	34.54	11.83	11.83
Nitrate(mg/L)	<2.0	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.41	0.41
Cadmium(mg/L)	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005
Zinc(mg/L)	<0.04	<0.04	<0.04
Oil & Grease (mg/L)	<4.0	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001	<0.001
MPN (Index/100 ml)	10	17	17
Hexavalent Chromium,(mg/L)	--	<0.05	<0.05

Table: 9.86

Area: Orient**Project:** Orient Mine No. 3

Project/OCP	Orient Mine No. 3	
NAME OF STATIONS	Pond Water at Budhijam Village	
Date of sampling	19-May-23	27-Nov-23
pH	8.04	7.81
Dissolved Oxygen(mg/L)	6.4	6.0
BOD (3 days 27°C(mg/L)	<2.0	<2
Color (Hazen unit)	3	2
Total dissolved solids (mg/L)	158	138
TSS(mg/L)	30	22
Total Hardness(mg/L)	92	72.58
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	39.64	19.44
Sulphate(mg/L)	24.36	15.12
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.36
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	<0.04	<0.04
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	10	25
Hexavalent Chromium,(mg/L)	--	<0.05

Table: 9.87

Area: Orient**Project:** HBI

Project/OCP	HBI	
NAME OF STATIONS	IB River near Kutabaga Village at Bridge Point	
Date of sampling	19-May-23	27-Nov-23
pH	8.16	7.93
Dissolved Oxygen(mg/L)	5.7	6.2
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	3
Total dissolved solids (mg/L)	168	118
TSS(mg/L)	34	24
Total Hardness(mg/L)	100	72.58
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	21.80	9.72
Sulphate(mg/L)	28.62	16.46
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.38
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	0.009	<0.005
Zinc(mg/L)	<0.04	<0.04
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	13	25
Hexavalent Chromium,(mg/L)	--	<0.05

Table: 9.88

Area: Orient**Project:** Orient Mine No. 4

Project/OCP	HBI	
NAME OF STATIONS	IB River Near Charbhati Village as u/s Water for IB Valley Coalfield	
Date of sampling	19-May-23	27-Nov-23
pH	8.23	7.82
Dissolved Oxygen(mg/L)	6.3	6.5
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	2
Total dissolved solids (mg/L)	112	154
TSS(mg/L)	24	28
Total Hardness(mg/L)	64	112.91
Copper(mg/L)	0	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	18	11.66
Sulphate(mg/L)	23.45	30.61
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.42
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	0.006	<0.005
Zinc(mg/L)	<0.04	<0.04
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	10	31
Hexavalent Chromium,(mg/L)	--	<0.05

Table: 9.89

Area: Orient**Project:** Orient Mine No. 4

Project/OCP	HBI	
NAME OF STATIONS	IB River Bridge of NH200 at Gondghora Village as u/s of Orient Area	
Date of sampling	19-May-23	27-Nov-23
pH	7.89	7.89
Dissolved Oxygen(mg/L)	6.8	6.0
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	1
Total dissolved solids (mg/L)	126	136
TSS(mg/L)	28	36
Total Hardness(mg/L)	72	88.71
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	19.82	13.61
Sulphate(mg/L)	25.65	32.32
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	<0.3	0.33
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	0.008	<0.005
Zinc(mg/L)	<0.04	0.05
Oil & Grease (mg/L)	<4.0	<4.0
Selenium(mg/L)	<0.005	<0.005
Total Chromium (mg/L)	<0.01	<0.01
Phenolics(mg/L)	<0.001	<0.001
MPN (Index/100 ml)	903	33
Hexavalent Chromium,(mg/L)	--	<0.05



WELL WATER LEVEL

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FOR WELL WATER LEVEL DATA

Table: 90

Area: Ib valley

Project: Samaleswari OCP

Monitoring Station: Well of Kudopali

Date of sampling	Water level Depth of Ground water level (in m)
23-May-23	3.25
17-Aug-23	3.12
20-Nov-23	2.27
23-Jan-24	6.2

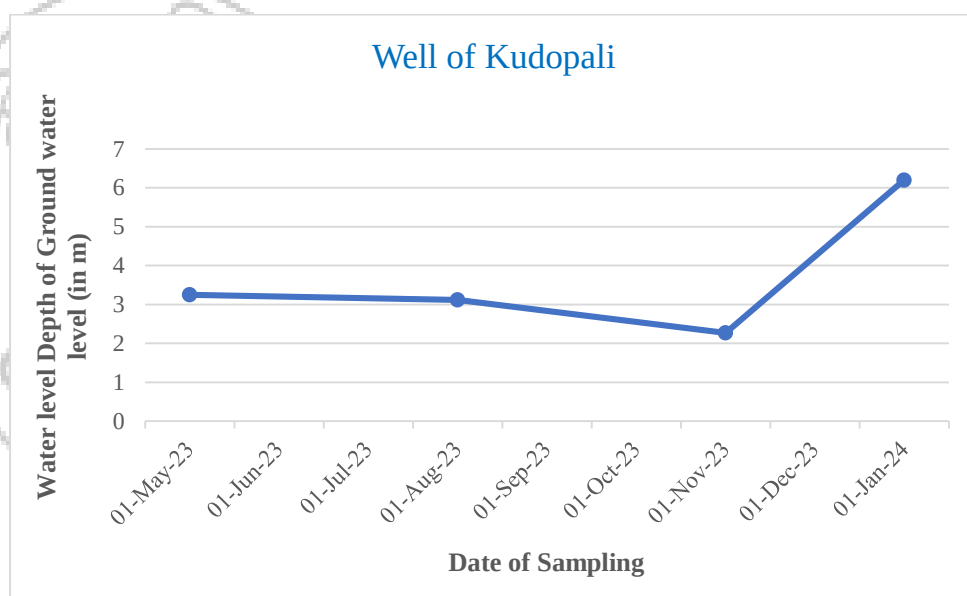


Table: 91

Area: Ib valley**Project:** Samaleswari OCP**Monitoring Station:** Well of Lajkura(Reported)

Date of sampling	Water level Depth of Ground water level (in m)
23-May-23	4.78
17-Aug-23	2.12
20-Nov-23	3
23-Jan-24	9.2

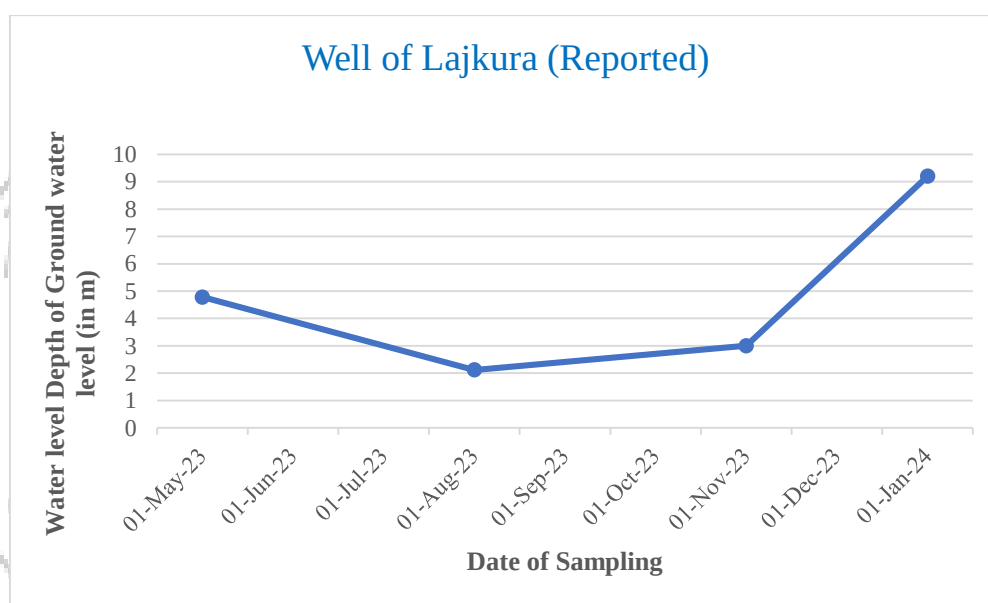


Table: 92

Area: Ib valley**Project:** Lajkura OCP**Monitoring Station:** Adarsh Nagar Colony Well Water

Date of sampling	Water level (bgl in meters)
23-May-23	4.19
17-Aug-23	2.32
20-Nov-23	3.5
23-Jan-24	8.5

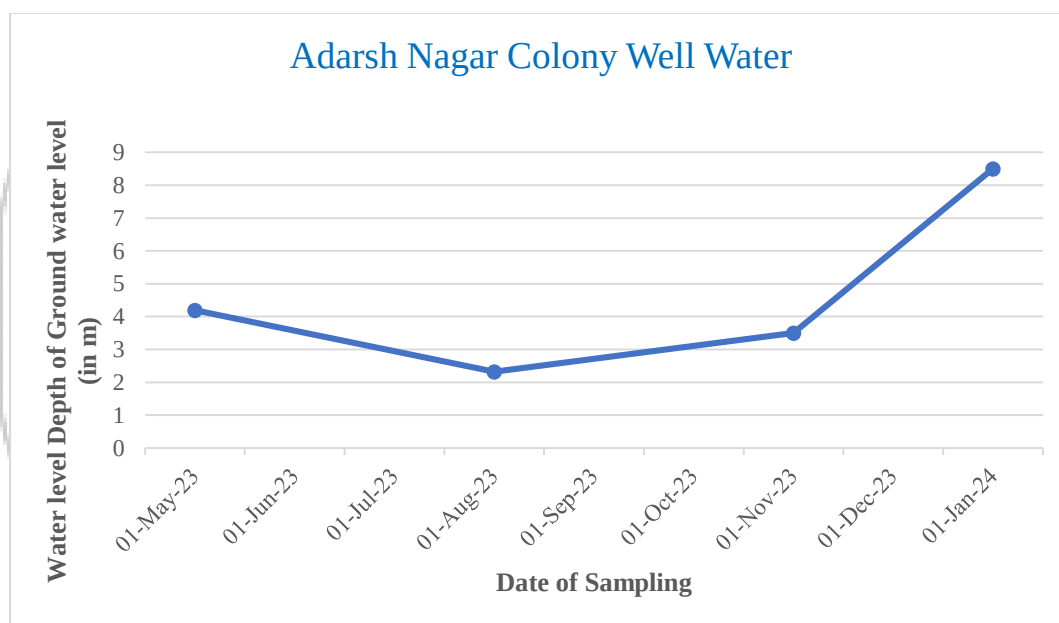


Table: 93

Area: Ib valley**Project:** Lajkura OCP**Monitoring Station:** Chhualibera Village Well Water

Date of sampling	Water level (bgl in meters)
23-May-23	2.87
17-Aug-23	0.85
20-Nov-23	3
23-Jan-24	7.8

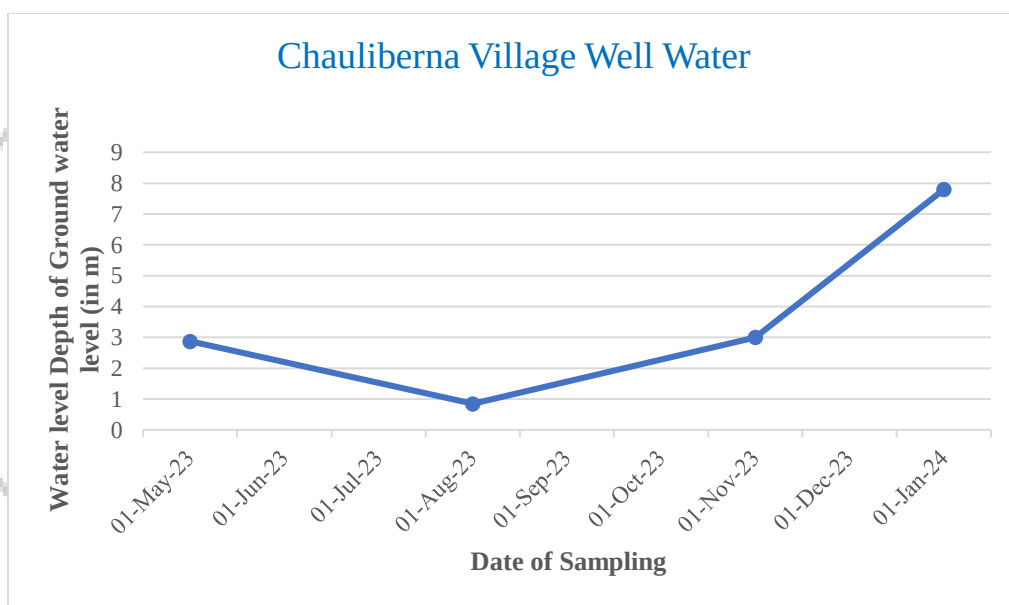


Table: 94

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring Station:** Khairkuni Village Well

Date of sampling	Water level (bgl in meters)
24-May-23	4.93
17-Aug-23	2.9
21-Nov-23	5.59
24-Jan-24	12.6

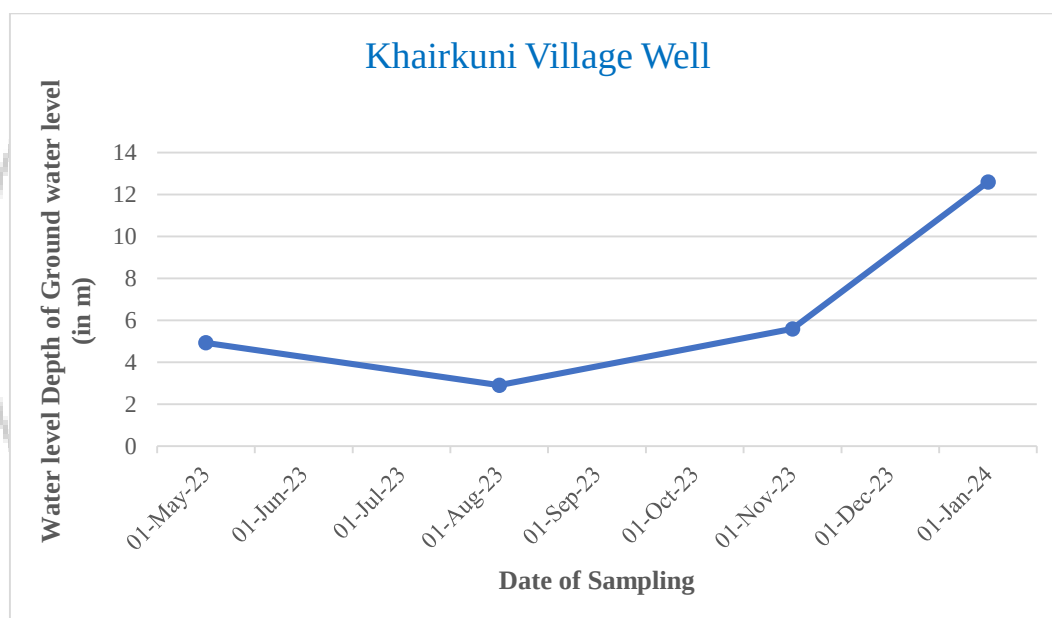


Table: 95

Area: Lakhanpur**Project:** Lakhanpur OCP**Monitoring Station:** Kansar Village Well

Date of sampling	Water level (bgl in meters)
24-May-23	3.86
17-Aug-23	1.82
21-Nov-23	2.59
24-Jan-24	11.1

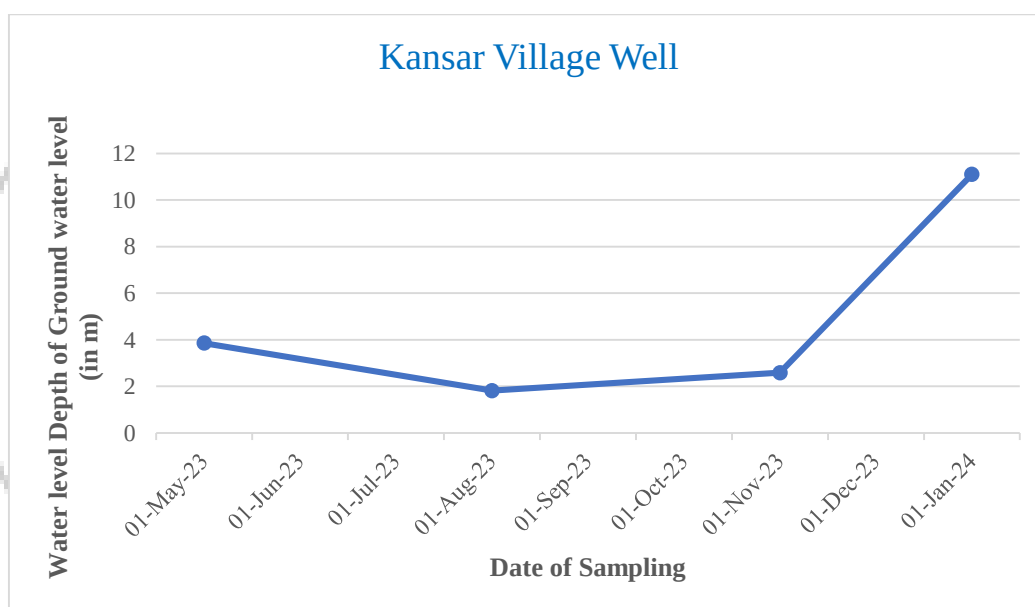


Table: 96

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring Station:** Ubuda Village Well

Date of sampling	Water level (bgl in meters)
24-May-23	4.98
17-Aug-23	1.98
21-Nov-23	5
24-Jan-24	11.7

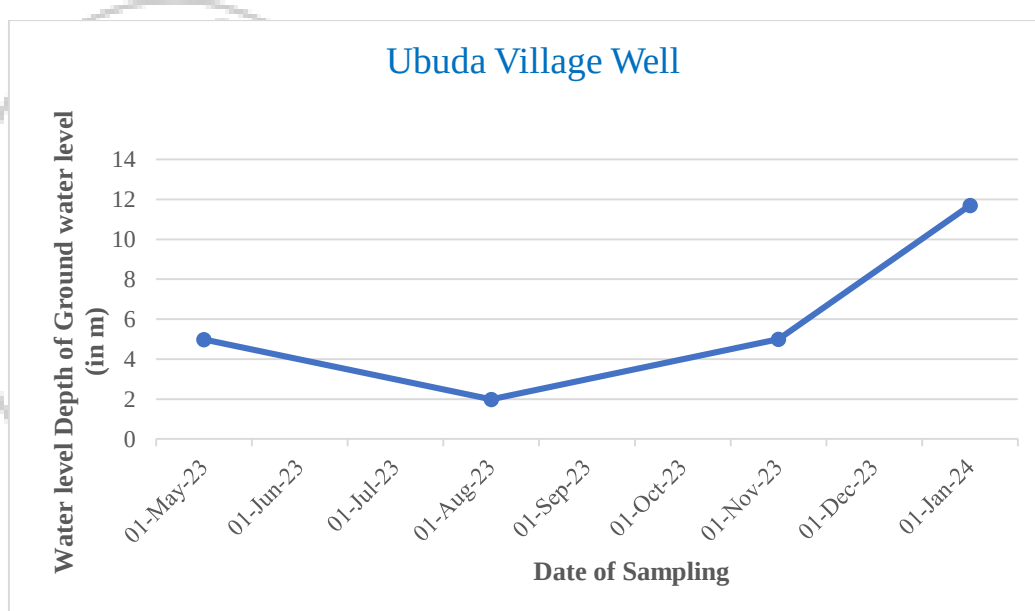


Table: 97

Area: Lakhanpur**Project:** Belpahar OCP**Monitoring Station:** Jurabaga Village Well

Date of sampling	Water level (bgl in meters)
24-May-23	4.52
17-Aug-23	1.56
21-Nov-23	3.6
24-Jan-24	9.2

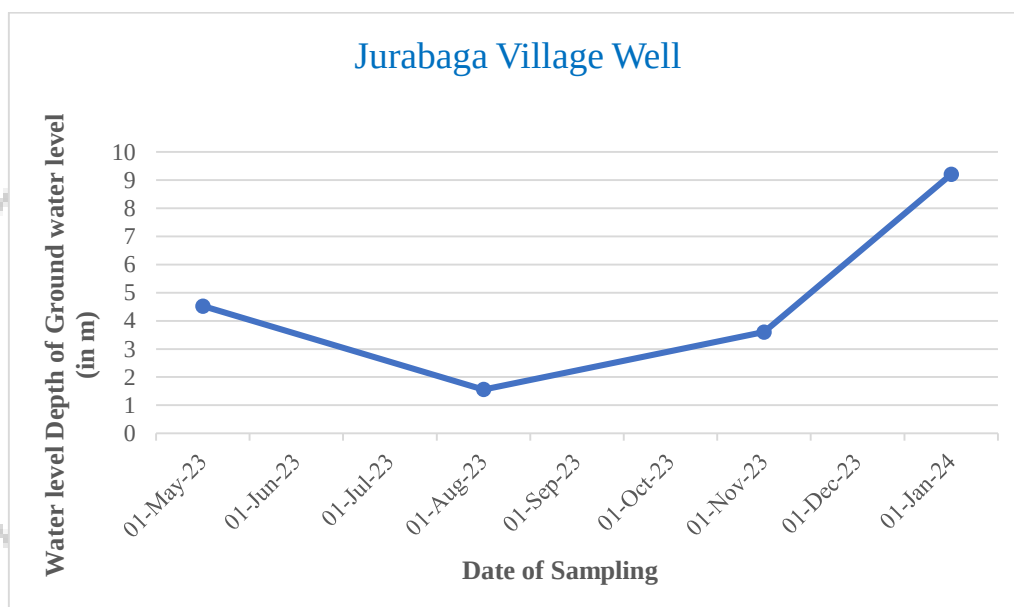


Table: 98

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring Station:** Tiklipada Village Well

Date of sampling	Water level (bgl in meters)
25-May-23	2.01
18-Aug-23	2.9
22-Nov-23	3.85
25-Jan-24	7.3

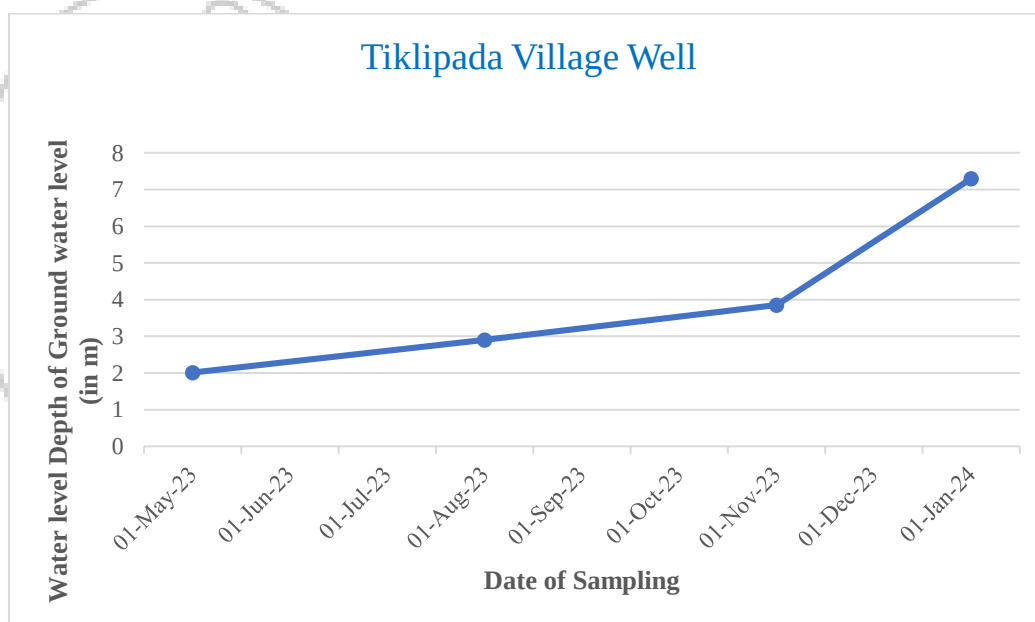


Table: 99

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring Station:** Sardega Village Well

Date of sampling	Water level (bgl in meters)
25-May-23	4.8
18-Aug-23	1.69
22-Nov-23	1.8
25-Jan-24	9.6

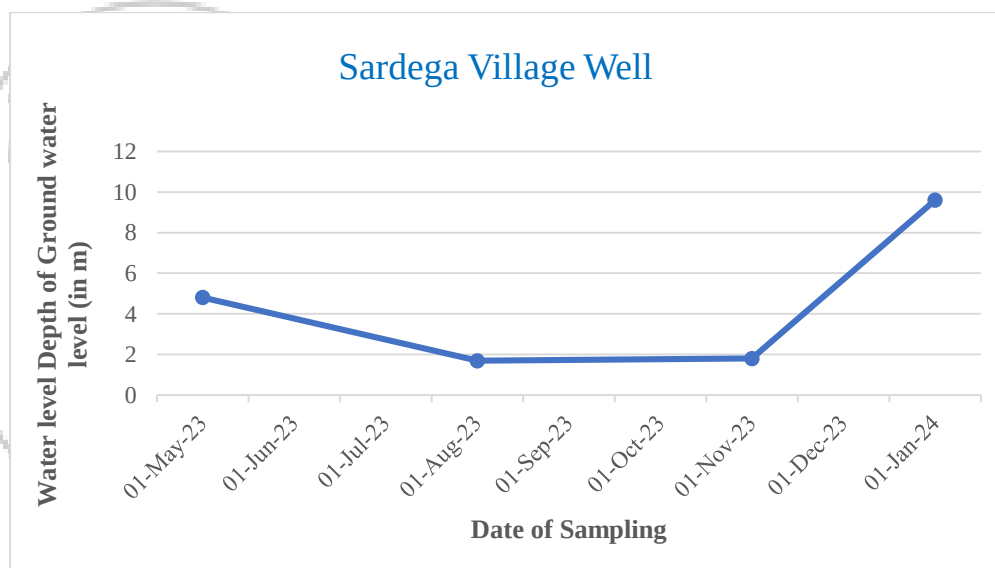


Table: 100

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** Well at Sahaspur

Date of sampling	Water level (bgl in meters)
25-May-23	2.82
18-Aug-23	1.67
22-Nov-23	2.47
25-Jan-24	6.8

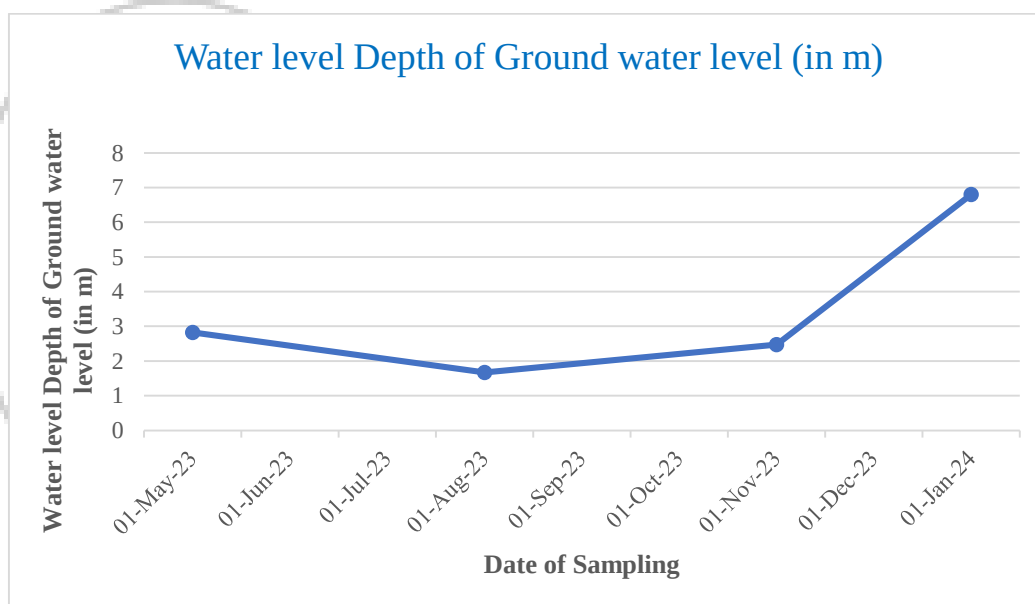


Table: 101

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** Well at Teleimal

Date of sampling	Water level (bgl in meters)
25-May-23	2.82
18-Aug-23	2.73
22-Nov-23	4
25-Jan-24	10.2

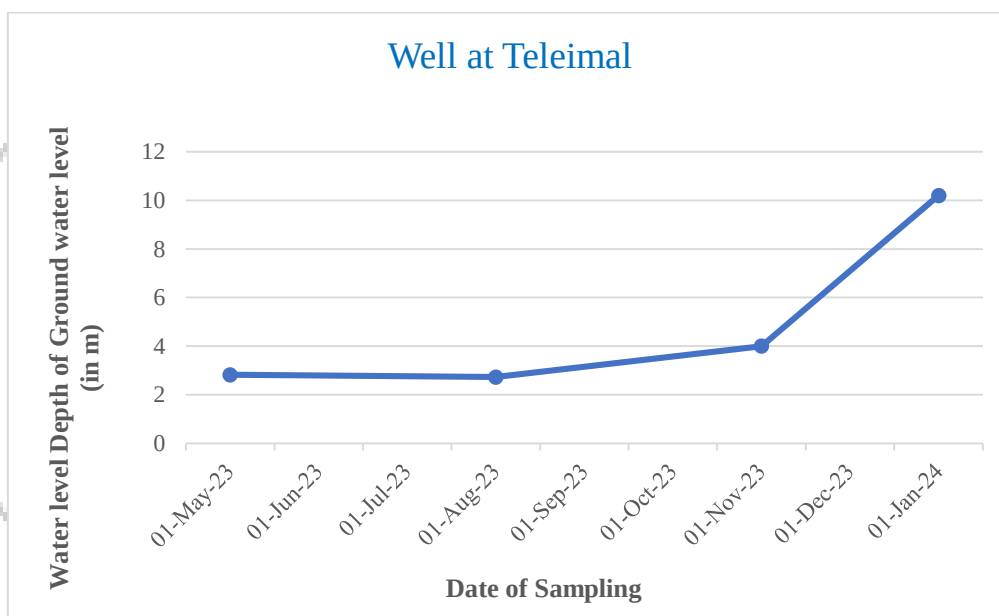


Table: 102

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** Well at Garjanbahal Village

Date of sampling	Water level (bgl in meters)
25-May-23	2.95
18-Aug-23	0.32
22-Nov-23	2.39
25-Jan-24	7.9

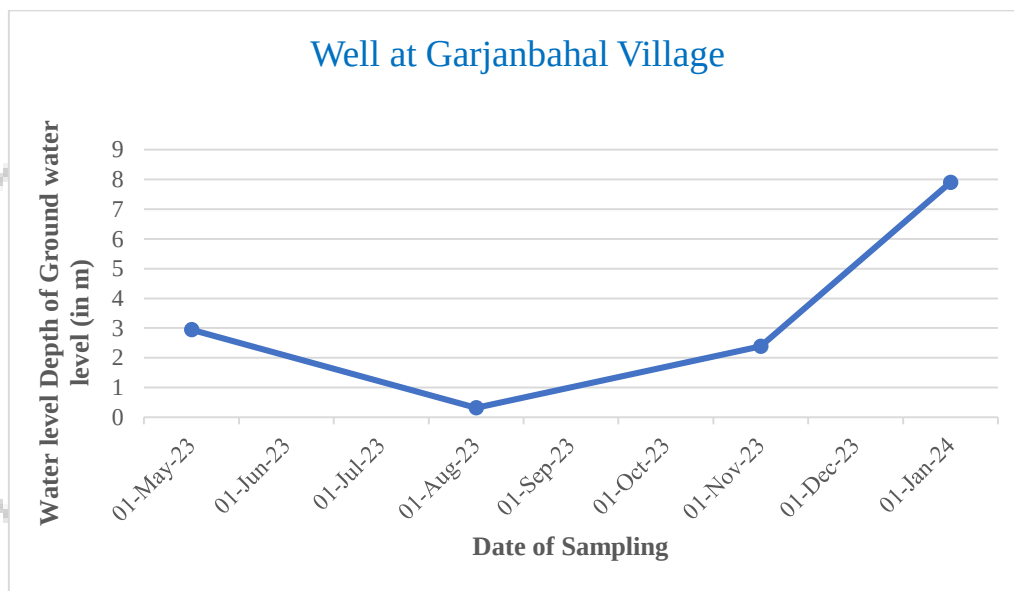


Table: 103

Area: Basundhara**Project:** Garjanbahal OCP**Monitoring Station:** South West of Coalface

Date of sampling	Water level (bgl in meters)
25-May-23	3.15
18-Aug-23	1.2
22-Nov-23	2.6
25-Jan-24	6.2

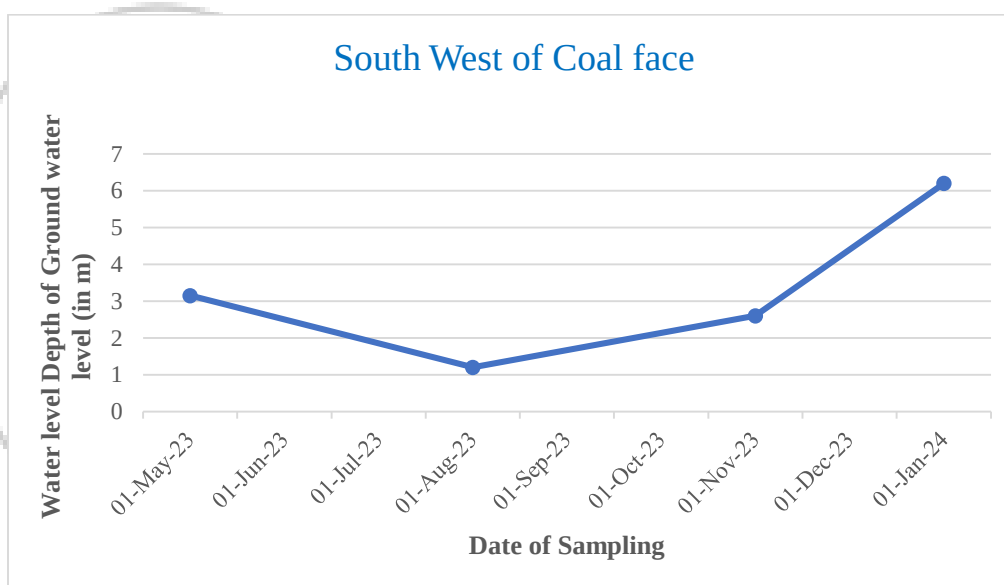


Table: 104

Area: Orient

Project: Orient Mine no. 2

Monitoring Station: Madhuban Nagar Well Water

Date of sampling	Water level (bgl in meters)
23-May-23	4.19
17-Aug-23	4.45
20-Nov-23	3.7
25-Jan-24	8.7

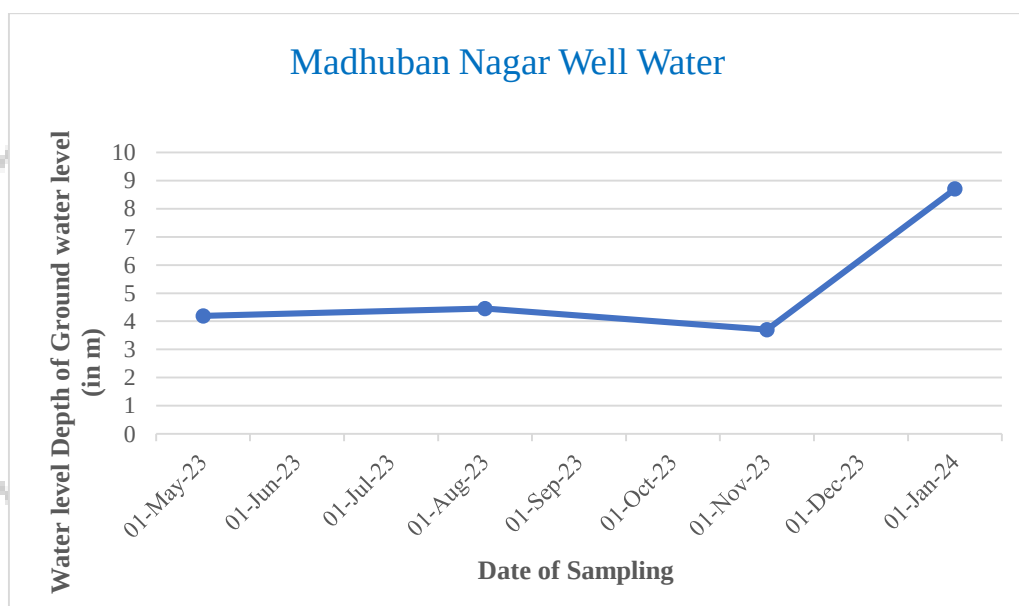


Table: 105

Area: Orient

Project: Orient Mine no. 2

Monitoring Station: Chhualiberna Village Well Water (Reported)

Date of sampling	Water level (bgl in meters)
24-May-23	2.87
17-Aug-23	0.85
20-Nov-23	3
23-Jan-24	7.8

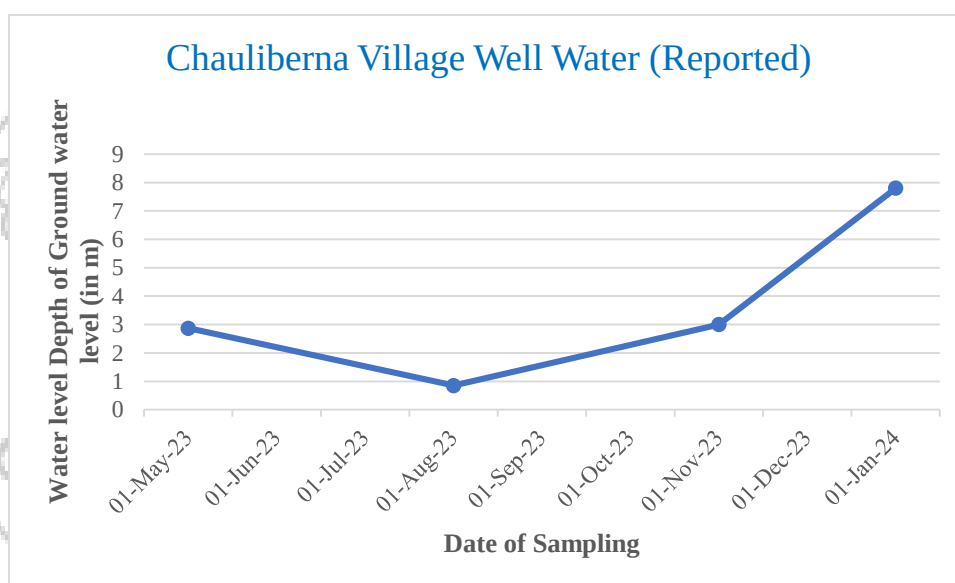


Table: 106

Area: Orient**Project:** Orient Mine no. 2**Monitoring Station:** Madhuban Nagar Well Water

Date of sampling	Water level (bgl in meters)
23-May-23	4.19
17-Aug-23	4.45
20-Nov-23	3.7
25-Jan-24	8.7

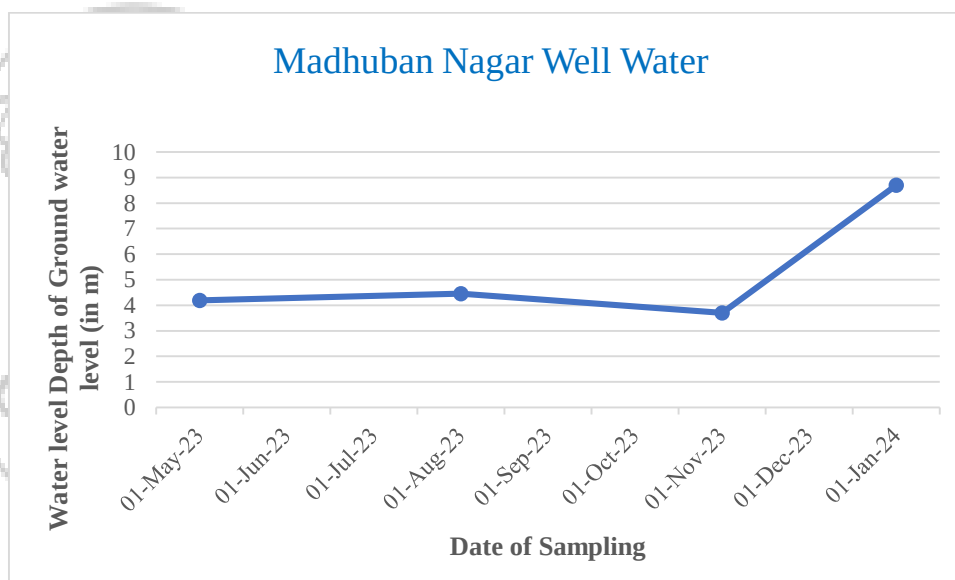


Table107

Area: Orient**Project:** Orient mine no. 3**Monitoring Station:** Well of Lajkura

Date of sampling	Water level (bgl in meters)
23-May-23	4.78
17-Aug-23	2.12
20-Nov-23	3
23-Jan-24	9.2

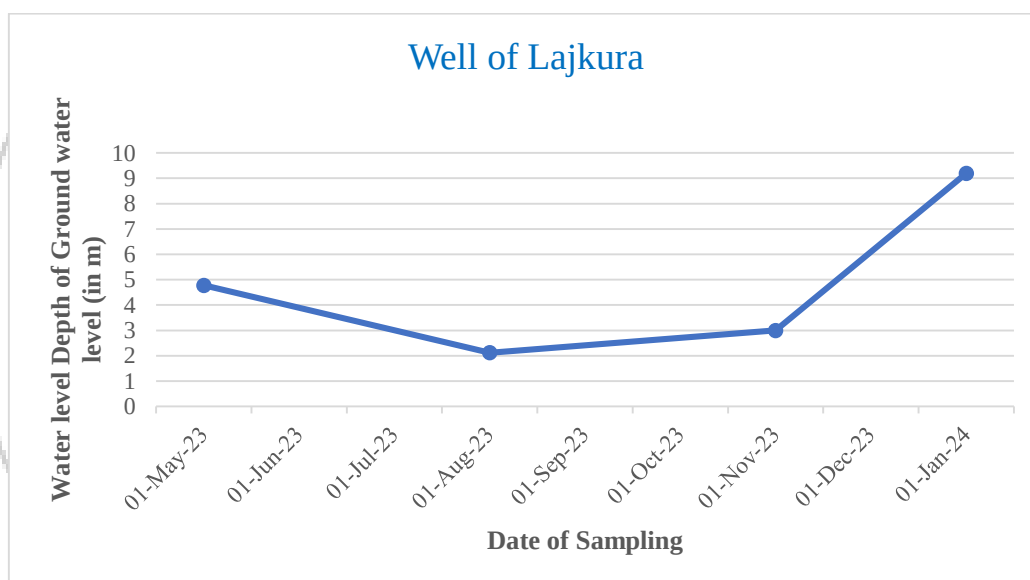


Table: 108

Area: Orient**Project:** Orient mine no. 4**Monitoring Station:** Adibasi Basti Village Well

Date of sampling	Water level (bgl in meters)
23-May-23	2.69
17-Aug-23	3.66
20-Nov-23	2
23-Jan-24	12.3

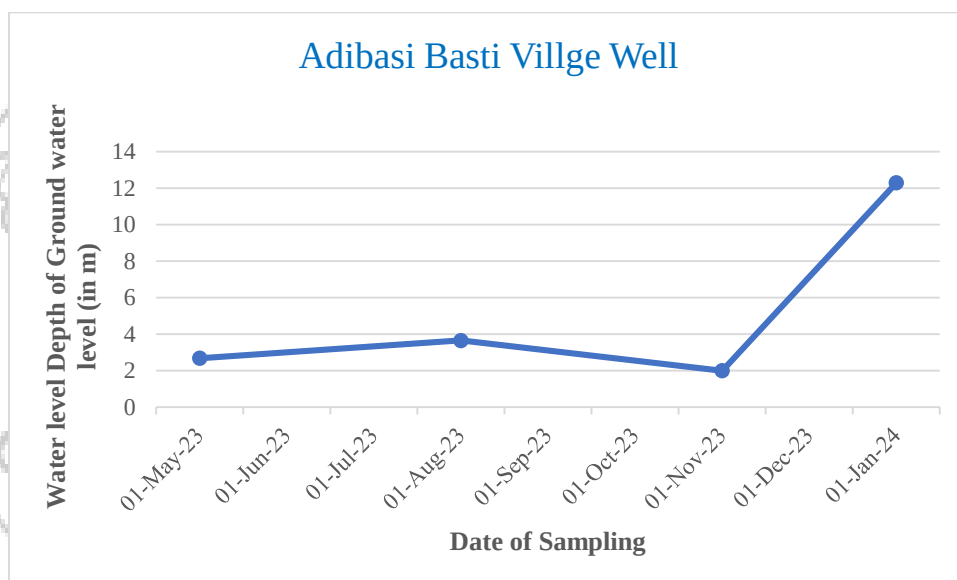


Table: 109

Area: Orient**Project:** Orient mine no. 4**Monitoring Station:** Jhopadi Basti Village Well

Date of sampling	Water level (bgl in meters)
23-May-23	4.04
17-Aug-23	0.75
20-Nov-23	DRY
23-Jan-24	5.9



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Table: 110

Area: Orient

Project: HBI

Monitoring Station: Ainlapali Village Well

Date of sampling	Water level (bgl in meters)
23-May-23	4.78
17-Aug-23	0.67
20-Nov-23	3.77
23-Jan-24	10.5

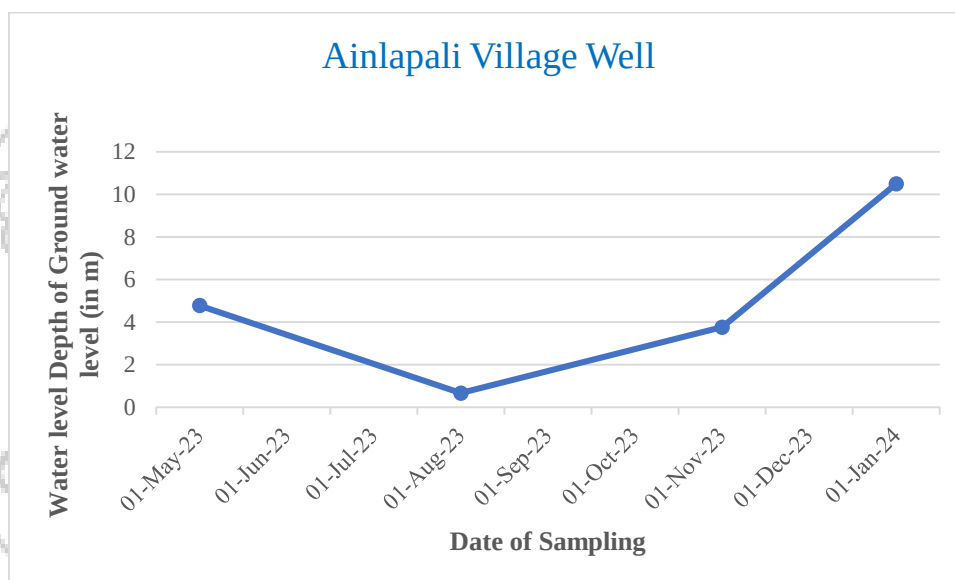


Table: 111

Area: Orient

Project: HBI

Monitoring Station: Chingriguda Village Well

Date of sampling	Water level (bgl in meters)
23-May-23	2.57
17-Aug-23	2.2
20-Nov-23	2.6
23-Jan-24	6.8

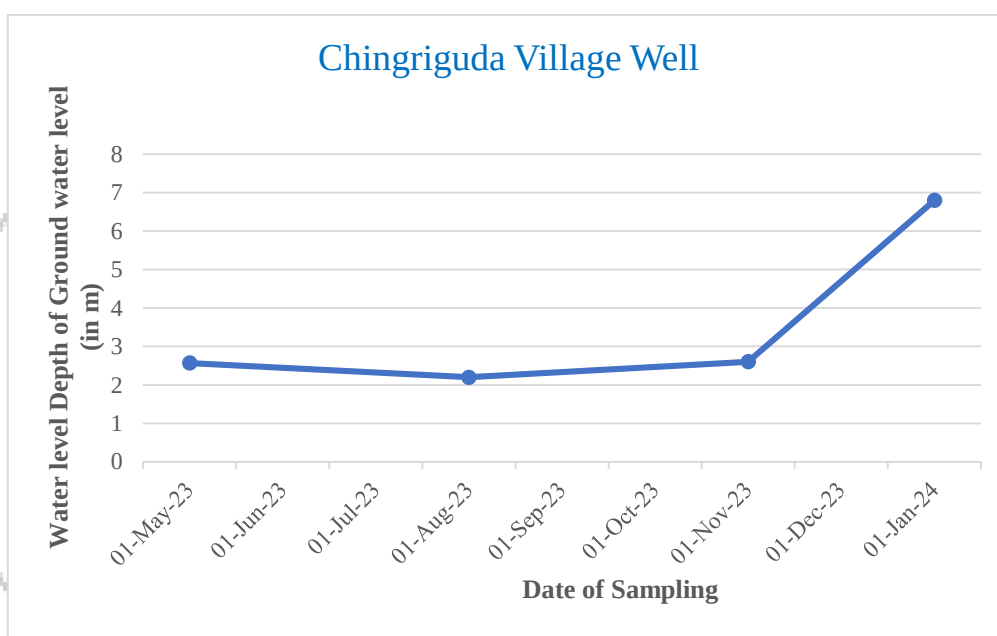


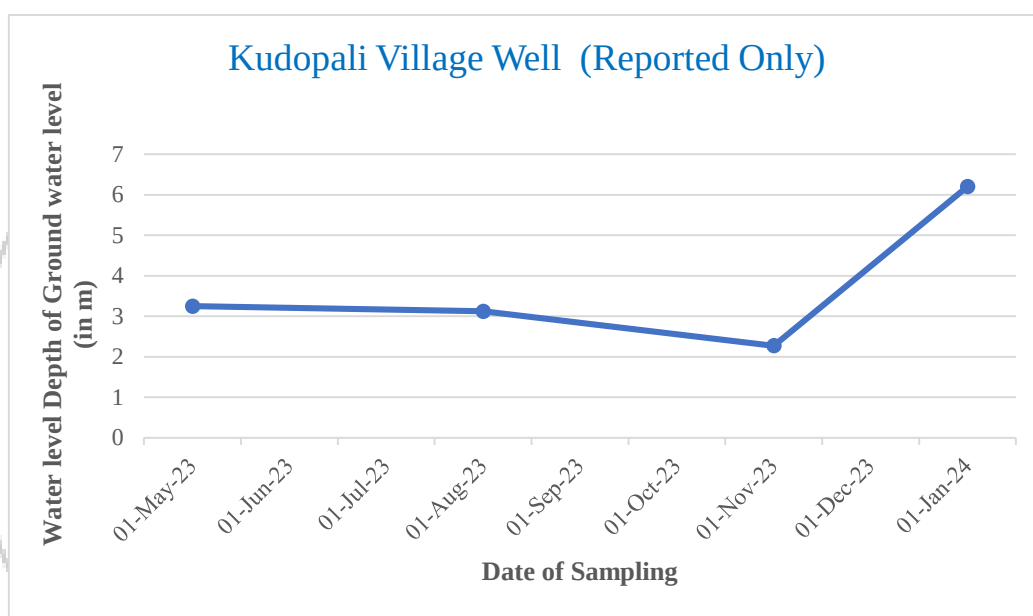
Table: 112

Area: Orient

Project: HBI

Monitoring Station: Kudopali Village Well (Reported Only)

Date of sampling	Water level (bgl in meters)
23-May-23	3.25
17-Aug-23	3.12
20-Nov-23	2.27
23-Jan-24	6.2



9.2.4 DRINKING WATER ANALYTICAL RESULTS

Table:113

Area: Ib valley

Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Well Water from Kudopali													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	1	1	4	1	1	3	1	3	3	3	3	5	15
Turbidity(NTU)	1	2	1	1	1	1	1	1	2.8	1.56	2	2	1	5
pH	7.84	7.93	8.11	7.73	7.81	8.21	8.05	7.82	8.06	8.12	8.03	7.91	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	131.4	120.4	129.3	124.6	120.6	106.1	77.5	118.3	104	108	112	104	200	600
Total Hardness (Ca CO ₃)(mg/L)	97	80	88.7	88.35	97.16	76.51	40.32	96.78	87.49	76.41	67.64	75.50	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	27.65	23.78	25.77	19.82	27.75	25.27	19.44	21.38	17.61	19.57	15.66	17.71	250	1000
Total Dissolve Solid(mg/L)	156	172	194	166	208	186	166	198	158	184	198	214	500	2000
Calcium(mg/L)	22.63	19.39	17.78	16.10	22.72	19.39	12.93	29.09	16.23	14.37	17.56	20.68	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.04	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	1	2.78	4.36	1.00	11.5	7.82	14.74	2.07	5.48	8.36	7.56	5.86	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.34	0.33	0.37	0.32	0.33	0.83	0.64	0.52	0.54	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.21	0.14	0.12	0.21	0.29	0.19	0.13	0.04	0.1	<0.04	0.08	0.17	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:114

Area: Ib valley

Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap Water From Samaleswari OCP Colony													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	2	1	3	2	3	4	2	4	2	2	4	5	15
Turbidity(NTU)	1	2	2	2	1	2	2	2	1.4	1.24	2	2	1	5
Ph	7.97	8.03	8.06	7.84	8.16	8.28	8.08	8.04	8.10	8.09	8.05	7.96	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	135.7	124.9	121.9	116.6	124.6	114.2	85.7	110.2	112	104	100	96	200	600
Total Hardness (Ca CO3)(mg/L)	97	96	93	92.37	105.26	116.78	120.97	137.10	76.71	72.39	63.66	71.52	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	25.67	21.8	23.78	19.82	25.77	23.33	21.38	21.38	17.61	17.61	19.57	15.74	250	1000
Total Dissolve Solid(mg/L)	162	180	178	158	212	198	208	218	164	180	190	204	500	2000
Calcium(mg/L)	21.01	16.16	14.55	19.32	24.34	22.63	27.47	22.63	17.85	19.16	22.36	22.27	75	200
Copper(mg/L)	<0.03	<0.03	0.04	0.03	<0.03	<0.03	0.06	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	1	3	3.61	1.13	10.3	7.4	13.33	3.5	1.92	3.69	4.28	5.12	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.36	0.42	0.45	0.43	0.38	0.79	0.57	0.63	0.68	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.22	0.16	0.14	0.15	0.2	0.1	0.15	0.08	0.2	<0.04	0.12	0.10	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:115
Area: Ib valley
Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Water from IWSS, IB Valley Area													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	3	1	2	3	2	3	1	4	1	3	2	5	15
Turbidity(NTU)	1	2	1	2	1	1	1	2	1.1	1.01	1	2	1	5
Ph	8.13	8.08	8.21	7.91	8.11	8.32	8.09	8.10	8.22	8.16	8.09	8.01	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	127.2	116	133.8	116.6	116.6	114.2	81.6	118.3	108	108	104	108	200	600
Total Hardness (Ca CO3)(mg/L)	101	76	68.6	92.37	93.11	92.62	76.62	104.84	84.79	76.41	79.58	91.39	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	23.7	19.82	23.78	17.84	27.75	25.27	17.5	23.33	17.61	19.57	17.61	19.68	250	1000
Total Dissolve Solid(mg/L)	154	166	204	176	198	192	180	206	160	176	196	218	500	2000
Calcium(mg/L)	27.47	24.24	21.01	17.71	24.34	22.63	17.78	25.86	21.09	23.95	20.76	23.86	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	1	3	5.12	1.50	11.3	6.9	13.59	3.3	4.16	6.38	7.84	8.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.40	0.35	0.43	0.35	0.45	0.77	0.72	0.48	0.72	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.20	0.16	0.13	0.17	0.37	0.16	0.15	0.10	0.05	0.17	0.07	0.14	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:116
Area: Ib valley
Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Well Water From Lajkura													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	3	3	1	2	3	2	2	3	2	4	1	5	15
Turbidity(NTU)	1	2	1	1	2	1	1	1	1.7	1.27	1	2	1	5
pH	7.92	7.79	8.05	7.87	8.03	8.34	8.10	8.15	8.08	8.03	8.10	8.07	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	127.2	120.4	129.3	120.6	124.6	110.2	77.5	110.2	104	104	108	100	200	600
Total Hardness (Ca CO ₃)(mg/L)	97	92	76.6	88.35	109.31	96.64	76.62	129.04	92.86	80.43	87.53	95.37	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	25.67	21.8	21.8	19.82	25.77	25.27	19.44	21.38	17.61	15.65	19.57	17.71	250	1000
Total Dissolve Solid(mg/L)	148	160	198	170	218	190	174	204	154	162	204	224	500	2000
Calcium(mg/L)	24.24	22.63	24.24	19.32	25.96	19.39	19.39	29.09	16.23	17.56	14.37	17.50	75	200
Copper(mg/L)	<0.03	<0.03	0.05	<0.03	0.03	<0.03	<0.03	<0.03	0.04	0.04	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	1	3	2.15	0.38	10.0	6.7	13.72	2.3	5.06	7.15	8.38	6.18	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.45	0.34	0.37	0.33	0.34	0.82	0.84	0.40	0.47	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.19	0.15	0.19	0.11	0.27	0.14	0.13	0.14	0.12	0.06	0.35	0.37	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:117

Area: Ib valley **Project:** Lajkura OCP

Project / OCP	Lajkura OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Madhuban Nagar Well Water													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	3	2	2	1	2	2	3	5	4	2	1	5	15
Turbidity(NTU)	2	3	2	2	2	2	2	2	<1.0	<1.0	1	2	1	5
pH	8.18	8.06	7.96	7.75	7.84	8.38	8.15	8.18	7.79	7.61	7.73	7.81	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	152.6	133.8	138.3	84.4	104.5	106.1	93.8	122.4	128	136	128	116	200	600
Total Hardness (Ca CO3)(mg/L)	194	165	153.2	128.5	137.65	132.88	137.10	165.33	153.43	144.78	147.22	131.13	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	86.9	77.3	93.15	31.71	27.75	31.10	23.33	40.80	46.97	48.92	45.01	41.33	250	1000
Total Dissolve Solid(mg/L)	324	308	340	278	246	272	258	306	286	302	328	298	500	2000
Calcium(mg/L)	53.33	50.10	54.95	40.24	40.57	42.02	45.25	59.80	50.30	52.69	54.29	44.53	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	0.05	<0.03	<0.03	0.04	0.06	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	35.70	30.46	26.34	41.50	37.1	26.9	36.80	30.0	34.42	29.36	26.48	22.76	200	400
Nitrate(mg/L)	17.54	16.13	22.12	20.37	19.8	18.24	17.68	19.12	12.31	11.98	11.28	11.7	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.41	0.45	0.31	0.40	0.30	0.97	0.60	0.44	0.37	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.21	0.10	0.20	0.14	0.23	0.34	0.27	0.08	0.16	0.57	0.32	0.13	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:118

Area: Ib valley **Project:** Lajkura OCP

Project / OCP	Lajkura OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Adarsh Nagar Colony Well Water													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	2	3	4	2	1	4	2	4	2	1	3	5	15
Turbidity(NTU)	2	3	2	1	2	2	2	2	<1.0	<1.0	1	3	1	5
pH	7.66	7.89	8.02	7.94	8.13	8.44	8.18	8.31	7.62	7.83	7.64	7.75	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	161.1	142.7	71.4	112.6	120.6	138.7	138.7	122.4	120	128	120	112	200	600
Total Hardness (Ca CO3)(mg/L)	157	116	125.00	92.37	161.94	132.88	141.13	161.30	121.13	108.58	119.36	107.29	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	84.93	73.33	17.84	19.82	51.53	50.54	42.77	38.88	43.05	45.01	41.1	39.36	250	1000
Total Dissolve Solid(mg/L)	312	288	208	178	298	308	328	314	270	294	308	286	500	2000
Calcium(mg/L)	45.25	40.4	38.79	17.71	45.44	45.25	42.02	56.56	34.08	38.32	41.52	36.58	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	33.67	33.67	24.36	0.50	42.6	34.49	41.28	30.85	26.75	32.36	30.40	26.72	200	400
Nitrate(mg/L)	17.26	15.94	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	11.31	11.02	10.74	11.2	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.45	0.33	0.36	0.44	0.31	0.94	0.48	0.79	0.49	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.15	0.19	0.17	0.06	0.24	0.16	1.73	0.22	0.2	<0.04	0.10	0.18	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table: 119
Area: Ib valley
Project: Lajkura OCP

Project / OCP	Lajkura OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Chhualibera Village Well Water													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	2	2	3	3	2	2	2	5	1	2	2	5	15
Turbidity(NTU)	2	3	2	2	1	1	2	1	<1.0	<1.0	2	3	1	5
pH	8.03	7.75	7.96	8.03	8.24	8.20	8.14	8.23	7.67	7.89	7.78	7.86	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	156.9	138.3	133.8	84.4	112.6	106.1	102	126.5	124	116	124	116	200	600
Total Hardness (Ca CO ₃)(mg/L)	198	161	169.4	132.5	105.26	128.86	137.10	133.07	157.47	148.80	151.19	162.92	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	82.95	79.3	91.17	33.69	31.71	33.05	23.33	29.16	46.97	43.05	37.18	35.42	250	1000
Total Dissolve Solid(mg/L)	330	318	354	292	216	280	270	236	294	288	334	314	500	2000
Calcium(mg/L)	64.65	58.18	53.33	38.63	19.47	46.87	43.64	22.63	47.06	49.50	54.29	54.08	75	200
Copper(mg/L)	<0.03	<0.03	0.040	<0.03	0.030	<0.03	<0.03	<0.03	<0.03	0.06	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	34.30	28.72	32.23	40.50	6.1	28.85	35.77	3.05	33.38	27.56	26.48	28.14	200	400
Nitrate(mg/L)	17.86	16.34	21.72	19.56	19.4	17.64	17.12	18.20	12.22	11.82	11.14	10.8	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.35	0.39	0.41	0.40	0.40	0.93	0.41	0.84	0.62	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.14	0.13	0.1	0.1	0.23	0.19	0.23	0.25	0.23	<0.04	0.17	0.14	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:120

Area: Ib valley

Project: Lajkura OCP

Project / OCP	Lajkura OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	VIP Guest House Tap Water													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	11-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	1	1	2	2	2	3	1	4	2	1	2	5	15
Turbidity(NTU)	1	2	1	1	1	1	1	1	<1.0	<1.0	1	2	1	5
pH	7.76	7.59	8.01	7.84	8.28	7.84	7.95	8.07	7.94	7.73	7.58	7.69	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	72.1	80.3	75.8	60.3	60.3	57.1	65.3	61.2	72	80	88	92	200	600
Total Hardness (Ca CO3)(mg/L)	81	72	68.6	84.34	76.92	76.51	84.68	104.84	84.79	92.50	107.43	99.34	200	600
Iron(mg/L)	0.16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.04	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	21.73	23.78	17.84	15.86	13.87	15.55	13.61	15.55	13.7	15.65	17.61	15.74	250	1000
Total Dissolve Solid(mg/L)	148	174	186	152	148	164	188	174	148	162	178	206	500	2000
Calcium(mg/L)	22.63	22.63	22.63	17.71	17.85	21.01	25.86	19.39	17.85	22.36	20.76	33.40	75	200
Copper(mg/L)	<0.03	<0.03	0.04	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	29.75	31.46	35.21	32.38	28.8	25.51	31.80	23.66	27.79	32.14	30.36	26.48	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.32	0.36	0.39	0.36	0.31	0.82	0.62	0.72	0.56	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.4	<0.04	0.23	0.33	0.19	0.31	0.18	0.09	0.12	0.07	0.04	0.10	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:121

Area: Lakhanpur OCP

Project: Lakhanpur OCP

Project / OCP	Lakhanpur OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	LKP Canteen Tap Water													
Date of Sampling	11-Apr-2023	10-May-2023	13-Jun-2023	6-Jul-2023	4-Aug-2023	12-Sep-2023	6-Oct-2023	9-Nov-2023	6-Dec-2023	11-Jan-2024	8-Feb-2024	12-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	1	4	1	4	4	2	3	3	4	4	5	15
Turbidity(NTU)	1	2	2	2	1	1	1	1	<1.0	<1.0	1	1	1	5
pH	8.21	8.06	8.10	8.01	8.14	8.14	7.92	7.89	7.97	7.88	7.61	7.73	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	55.1	53.5	80.3	76.4	56.3	49	49	53	60	64	72	84	200	600
Total Hardness (Ca CO3)(mg/L)	77	88	100.8	100.4	76.92	64.43	64.52	100.81	68.64	76.41	99.47	107.29	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	19.75	19.82	15.86	15.86	13.87	7.78	5.83	7.78	5.87	7.83	9.78	11.81	250	1000
Total Dissolve Solid(mg/L)	134	152	178	184	156	146	138	192	110	124	164	188	500	2000
Calcium(mg/L)	22.63	27.47	22.63	24.14	9.74	19.34	17.78	21.01	17.85	23.95	22.36	33.40	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	0.06	<0.03	0.05	0.03	0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	26.08	28.74	24.55	31.13	28.6	12.82	14.36	13.54	14.16	18.36	20.12	22.74	200	400
Nitrate(mg/L)	3.24	3.72	<2.0	<2.0	18.6	18.44	18.16	18.32	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.45	0.38	0.32	0.33	0.38	0.82	0.73	0.59	0.72	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.15	<0.04	<0.04	<0.04	0.11	<0.04	0.06	0.05	0.09	<0.04	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:122

Area: Lakhanpur

Project: Belpahar OCP

Project / OCP	Belpahar OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	IWSS Outlet													
Date of Sampling	11-Apr-2023	10-May-2023	13-Jun-2023	6-Jul-2023	4-Aug-2023	12-Sep-2023	6-Oct-2023	9-Nov-2023	6-Dec-2023	11-Jan-2024	8-Feb-2024	12-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	3	3	2	3	3	3	2	2	3	2	5	15
Turbidity(NTU)	1	2	1	1	1	1	1	1	<1.0	<1.0	2	2	1	5
pH	7.56	7.43	8.16	7.94	8.08	8.22	7.90	7.94	8.0	7.93	7.74	7.63	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	50.9	58	75.8	72.4	56.3	49	49	53	60	64	72	80	200	600
Total Hardness (Ca CO3)(mg/L)	73	72	64.5	92.37	89.06	64.43	60.49	84.68	181.69	189.02	190.98	202.65	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	21.73	17.84	15.86	15.86	13.87	7.78	7.78	9.72	7.83	5.87	7.83	9.84	250	1000
Total Dissolve Solid(mg/L)	128	146	162	172	164	158	132	178	106	218	226	254	500	2000
Calcium(mg/L)	24.24	22.63	17.78	27.36	25.96	21.01	14.55	29.09	17.85	25.55	20.76	30.22	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	0.03	0.06	0.04	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	25.44	26.18	21.34	30.88	28.9	14.36	13.97	50.73	15.19	16.25	19.24	20.18	200	400
Nitrate(mg/L)	4.28	3.96	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.40	0.41	0.37	0.30	0.45	0.79	0.48	0.64	0.42	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.15	<0.04	<0.04	<0.04	0.11	0.08	0.07	0.05	0.06	<0.04	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:123

Area: Mahalaxmi **Project:** Basundhara OCP

Project / OCP	Basundhara OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Water Treatment Plant Clear Water Reservoir													
Date of Sampling	12-Apr-2023	11-May-2023	14-Jun-2023	6-Jul-2023	5-Aug-2023	13-Sep-2023	7-Oct-2023	10-Nov-2023	7-Dec-2023	12-Jan-2024	6-Feb-2024	12-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	2	2	1	2	2	1	4	1	2	2	5	15
Turbidity(NTU)	2	2	2	3	1	1	1	1	<1.0	<1.0	1	1	1	5
pH	7.74	7.61	7.28	6.96	7.92	6.82	7.27	7.53	7.42	7.56	7.47	7.59	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	25.4	31.2	35.1	16.1	12.1	12.2	12.2	49.0	16	20	28	32	200	600
Total Hardness (Ca CO3)(mg/L)	161	177	165.3	160.84	109.31	84.56	68.55	84.68	96.90	88.48	99.47	91.39	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	11.85	15.85	29.70	5.95	5.95	5.83	7.78	7.78	3.91	7.83	11.74	7.87	250	1000
Total Dissolve Solid(mg/L)	220	238	256	216	172	142	156	170	140	158	172	158	500	2000
Calcium(mg/L)	54.95	50.10	54.95	33.80	19.47	21.01	19.39	25.86	19.47	27.15	23.95	27.04	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	91.27	85.23	74.38	109.38	75.0	69.5	59.75	39.8	73.64	58.24	54.2	46.72	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.02	2.11	2.72	2.34	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.58	0.42	0.48	0.39	0.43	0.87	0.92	0.72	0.33	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.20	0.15	0.05	0.15	0.11	0.20	0.27	0.18	0.23	0.09	0.06	0.11	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolic (mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:124

Area: Basundhara**Project: Kulda OCP**

Project / OCP	Kulda OCP					Indian Drinking Standards (IS-10500):2012
Monitoring Station	Well at Sahaspur					
Date of Sampling	11-May-2023	05-Aug-2023	10-Nov-2023	06-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	3	1	2	5	15
Turbidity(NTU)	2	2	2	2	1	5
pH	7.67	7.86	8.17	8.10	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	129.3	120.6	130.6	124	200	600
Total Hardness (Ca CO3)(mg/L)	225	242.90	206.65	222.81	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	87.21	99.1	52.49	45.01	250	1000
Total Dissolve Solid(mg/L)	298	364	348	322	500	2000
Calcium(mg/L)	50.10	58.42	56.56	60.68	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	9.49	46.5	43.3	46.10	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.32	0.35	0.93	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.13	0.05	0.07	0.09	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolic (mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:125

Area: Basundhara**Project: Kulda OCP**

Project / OCP	Kulda OCP					Indian Drinking Standards (IS-10500):2012
Monitoring Station	Well at Teleimal					
Date of Sampling	11-May-2023	5-Aug-2023	10-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	1	2	1	2	5	15
Turbidity(NTU)	2	2	2	2	1	5
pH	7.83	8.23	8.29	8.15	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	102.6	124.6	167.3	156	200	600
Total Hardness (Ca CO3)(mg/L)	92	230.76	270.17	25.66	200	600
Iron(mg/L)	<0.2	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	11.89	37.66	42.77	37.18	250	1000
Total Dissolve Solid(mg/L)	194	328	386	404	500	2000
Calcium(mg/L)	22.63	74.64	93.73	86.23	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	0.03	0.05	1.5
Manganese(mg/L)	0.45	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	14.05	51.8	38.9	35.74	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.36	0.31	0.64	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.08	0.07	0.11	0.10	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolic (mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:126

Area: Basundhara

Project: Garjanbahal OCP

Project / OCP	Garjanbahal OCP					Indian Drinking Standards (IS-10500):2012
Monitoring Station	Well at Garjanbahal Village					
Date of Sampling	11-May-2023	5-Aug-2023	10-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	1	1	3	5	15
Turbidity(NTU)	2	1	1	1	1	5
pH	7.97	8.12	8.04	8.13	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	151.6	72.4	32.6	28	200	600
Total Hardness (Ca CO3)(mg/L)	193	101.21	116.94	143.24	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	17.83	15.86	68.04	60.67	250	1000
Total Dissolve Solid(mg/L)	262	192	234	196	500	2000
Calcium(mg/L)	50.10	34.08	40.40	49.50	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.23	0.16	0.1	0.3
Sulphate(mg/L)	26.84	27.8	32.80	28.16	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.31	0.35	0.77	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.06	0.06	0.33	0.25	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:127

Area: Basundhara

Project: Garjanbahal OCP

Project / OCP	Garjanbahal OCP					Indian Drinking Standards (IS-10500):2012
Monitoring Station	South West of Coal face, Bihaimunda					
Date of Sampling	11-May-2023	5-Aug-2023	10-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	2	3	2	2	5	15
Turbidity(NTU)	2	1	3	3	1	5
pH	7.97	8.01	8.28	8.31	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	75.8	44.2	244.8	232	200	600
Total Hardness (Ca CO3)(mg/L)	100	89.06	342.75	350.13	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	17.83	37.66	149.67	138.95	250	1000
Total Dissolve Solid(mg/L)	166	154	538	564	500	2000
Calcium(mg/L)	12.93	25.96	103.43	108.58	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	24.94	10.6	23.29	26.42	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.32	0.4	0.49	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.22	0.17	0.10	0.30	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table: 128

Area: Orient**Project:** Orient Mine No. 1 & 2

Project / OCP	Orient Mine No. 1 & 2													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap Water at Budhijaam Colony													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	1	1	2	3	1	4	3	3	2	1	3	5	15
Turbidity(NTU)	1	2	1	1	1	1	1	1	<1.0	<1.0	1	2	1	5
pH	7.88	7.69	7.77	7.38	8.17	8.16	7.91	8.09	7.92	7.76	7.54	7.48	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	80.6	89.2	116	24.1	60.3	61.2	61.2	61.2	68	76	84	76	200	600
Total Hardness (Ca CO3)(mg/L)	89	84	84.7	80.3	80.97	88.59	84.68	72.58	96.90	92.50	99.47	87.42	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	21.73	25.77	49.55	13.87	15.86	15.55	13.61	15.55	13.7	17.61	21.53	23.61	250	1000
Total Dissolve Solid(mg/L)	154	208	248	168	140	162	180	180	156	174	202	182	500	2000
Calcium(mg/L)	21.01	24.24	27.47	17.71	17.85	21.09	24.24	21.01	19.47	25.55	30.34	27.04	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	31.01	35.28	39.92	31.88	26.4	23.3	31.67	30.61	29.35	34.15	36.20	38.56	200	400
Nitrate(mg/L)	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.39	0.34	0.4	0.35	0.36	0.86	0.40	0.72	0.59	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.29	0.28	0.19	0.23	0.15	0.1	0.22	0.15	0.15	0.19	0.39	0.17	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:129

Area: Orient

Project: Orient Mine No. 1 & 2

Project / OCP	Orient Mine No. 1 & 2													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Mine no 1 & 2 Filter Plant													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	4	4	1	4	1	1	4	4	3	1	2	5	15
Turbidity(NTU)	1	3	2	1	2	1	2	2	<1.0	<1.0	1	2	1	5
pH	8.12	7.87	7.91	8.13	8.09	8.34	8.20	8.13	7.85	7.94	7.78	7.63	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	63.6	71.4	129.3	108.5	100.5	110.2	118.3	93.8	120	128	136	124	200	600
Total Hardness (Ca CO3)(mg/L)	77	88	100.8	84.34	133.60	88.59	112.91	137.10	96.90	104.56	111.41	119.21	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	19.75	23.78	27.75	27.75	27.75	27.22	29.16	42.77	25.44	29.35	33.27	29.52	250	1000
Total Dissolve Solid(mg/L)	142	178	224	184	224	204	234	242	186	208	240	234	500	2000
Calcium(mg/L)	24.24	27.47	29.04	14.49	24.34	17.78	24.24	50.10	12.98	19.16	25.55	30.22	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	0.04	<0.03	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	30.63	26.46	22.37	8.63	33.3	6.80	8.97	2.44	9.22	7.16	9.28	12.64	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.36	0.37	0.34	0.31	0.30	0.83	0.72	0.59	0.77	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.08	<0.04	0.04	<0.04	0.16	0.12	0.05	0.27	0.78	<0.04	0.12	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:130

Area: Orient

Project: Orient Mine No. 3

Project / OCP	Orient Mine No. 3													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Mine no 3 Filter Plant													
Date of Sampling	14-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	3	1	3	2	2	4	2	2	2	2	2	5	15
Turbidity(NTU)	1	2	2	1	1	1	1	1	<1.0	<1.0	1	2	1	5
pH	7.66	7.42	7.97	8.05	7.66	8.19	7.97	8.04	7.77	7.89	7.96	7.81	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	114.5	102.6	53.5	64.3	64.3	61.2	65.3	61.2	60	64	72	84	200	600
Total Hardness (Ca CO ₃)(mg/L)	109	96	104.8	76.3	80.97	88.59	108.87	92.75	84.79	96.52	103.45	99.34	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	31.6	35.7	21.8	15.9	17.84	17.50	15.55	15.55	13.7	17.61	21.53	19.68	250	1000
Total Dissolve Solid(mg/L)	166	220	174	162	148	176	212	154	144	162	192	178	500	2000
Calcium(mg/L)	24.24	30.71	33.94	16.10	16.23	19.39	24.24	24.24	14.60	19.16	23.95	27.04	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	<0.03	0.04	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	11.27	16.28	19.84	27.50	25.4	24.5	33.33	1.59	32.60	35.36	38.42	36.18	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.44	0.32	0.31	0.37	0.32	0.82	0.64	0.46	0.82	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.11	0.14	<0.04	0.05	0.12	0.15	0.23	0.33	0.08	<0.04	<0.04	0.21	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:131

Area: Orient

Project: HBI Mine

Project / OCP	HBI Mine													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap Water at Rampur Colony													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	3	2	4	1	1	2	1	3	1	4	4	5	15
Turbidity(NTU)	2	2	2	1	1	2	1	1	1.9	1.63	1	2	1	5
pH	7.94	7.73	8.10	8.19	7.89	8.06	8.18	8.19	8.04	7.92	7.81	7.90	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	127.2	133.8	129.3	120.6	116.6	118.3	122.4	114.2	120	124	116	108	200	600
Total Hardness (Ca CO3)(mg/L)	125	120	116.9	92.37	105.26	94.64	104.84	112.91	88.83	104.56	119.36	115.23	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	25.67	29.73	17.84	19.82	25.77	25.27	25.27	21.38	19.57	23.48	119.57	15.75	250	1000
Total Dissolve Solid(mg/L)	172	232	216	180	218	234	222	220	166	184	208	194	500	2000
Calcium(mg/L)	32.32	30.71	35.55	16.10	21.09	22.63	29.09	29.09	19.47	22.36	23.95	30.22	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	0.05	<0.03	<0.03	0.04	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	2	7	9.21	0.50	25.50	7.05	3.85	15.73	0.91	2.78	4.88	7.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.38	0.40	0.37	0.42	0.36	0.75	0.52	0.71	0.66	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.13	0.15	<0.04	0.05	<0.04	0.22	0.17	0.07	0.08	<0.04	0.04	0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:132

Area: Orient

Project: HBI Mine

Project / OCP	HBI Mine													Indian Drinking Standards (IS-10500):2012
Monitoring Station	HBI Water Filter Plant													
Date of Sampling	10-Apr-2023	9-May-2023	12-Jun-2023	5-Jul-2023	3-Aug-2023	11-Sep-2023	5-Oct-2023	8-Nov-2023	5-Dec-2023	10-Jan-2024	7-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour (Hazen)	2	2	1	1	2	1	3	2	2	2	5	2	5	15
Turbidity (NTU)	1	3	2	1	1	1	1	2	1.7	1.56	1	3	1	5
pH	7.87	7.59	8.18	7.55	8.20	8.36	8.22	8.24	8.02	7.95	8.03	7.95	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	127.2	120.4	124.9	8	120.6	118.3	118.3	118.3	120	128	136	128	200	600
Total Hardness (Ca CO3)(mg/L)	93	100	80.6	40.16	101.21	96.64	96.78	129.04	88.83	80.43	99.47	111.26	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	25.67	21.80	21.8	13.9	25.77	27.22	23.33	21.38	17.61	25.44	21.53	17.71	250	1000
Total Dissolve Solid(mg/L)	162	202	194	114	206	218	242	232	162	194	222	246	500	2000
Calcium(mg/L)	25.86	29.09	24.24	9.66	22.72	32.32	32.32	30.71	19.47	22.36	25.55	33.40	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.2	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	1	3.56	6.37	36.50	9.60	7.31	3.97	12.68	1.04	5.15	8.36	9.28	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.31	0.34	0.43	0.44	0.04	0.71	0.48	0.64	0.44	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.1	<0.04	<0.04	0.13	0.11	0.12	0.13	0.12	0.06	<0.04	<0.04	0.15	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:133

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap water at DAV School (Anand vihar)													
Date of Sampling	13-Apr-2023	12-May-2023	12-Jun-2023	8-Jul-2023	10-Aug-2023	14-Sep-2023	14-Oct-2023	11-Nov-2023	4-Dec-2023	13-Jan-2024	9-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour (Hazen)	2	3	2	2	3	4	3		1	4	1	4	5	15
Turbidity (NTU)	1	2	1	1	2	1	1	1	<1.0	<1.0	1	2	1	5
pH	8.10	7.91	8.13	7.88	8.16	8.14	7.85	8.03	8.12	8.03	7.94	7.77	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	97.5	107	93.7	60.3	60.3	49	44.9	61.2	72	80	88	96	200	600
Total Hardness (Ca CO ₃) (mg/L)	93	92	84.7	88.35	198.37	76.51	76.62	80.65	72.68	92.50	99.47	111.26	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	13.83	15.85	15.86	11.89	13.87	9.72	9.72	9.72	5.87	9.78	13.70	15.74	250	1000
Total Dissolve Solid(mg/L)	140	194	180	154	248	166	178	158	116	138	174	204	500	2000
Calcium(mg/L)	32.32	30.71	29.09	24.14	30.83	22.63	27.47	25.86	21.09	25.55	27.15	30.22	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	14.94	17.36	22.42	39.25	32.10	18.21	26.41	9.27	13.77	18.45	22.10	24.08	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.33	0.32	0.48	0.31	0.4	0.77	0.55	0.62	0.54	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	<0.04	0.04	<0.04	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:134

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap Water at Corporate Office (Jagriti Vihar)													
Date of Sampling	13-Apr-2023	12-May-2023	12-Jun-2023	8-Jul-2023	10-Aug-2023	14-Sep-2023	14-Oct-2023	11-Nov-2023	4-Dec-2023	13-Jan-2024	9-Feb-2024	13-Mar-2024	Acceptable	Permissible
Colour (Hazen)	2	2	3	4	4	3	3		1	2	1	2	5	15
Turbidity (NTU)	1	2	1	1	1	1	1	1	<1.0	<1.0	1	2	1	5
pH	7.73	7.55	8.05	7.97	8.30	8.10	7.82	7.98	8.14	8.06	8.14	8.03	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	97.5	111.5	98.1	52.3	64.3	44.9	40.8	61.2	68	76	84	92	200	600
Total Hardness (Ca CO3) (mg/L)	101	104	88.7	92.37	109.31	80.54	64.52	88.71	68.64	72.39	91.51	99.34	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	15.8	17.84	15.86	11.89	9.91	9.72	9.72	7.78	5.87	11.74	15.66	19.68	250	1000
Total Dissolve Solid(mg/L)	148	216	196	158	178	158	164	174	124	142	168	194	500	2000
Calcium(mg/L)	33.94	35.55	30.71	24.14	27.59	25.86	21.01	30.71	19.47	20.76	19.16	22.27	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	14.68	17.64	15.38	45.25	32.90	15.26	28.72	17.80	19.22	24.36	28.16	24.88	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.70	0.36	0.36	0.36	0.35	0.75	0.46	0.36	0.36	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.06	<0.04	<0.04	<0.04	0.06	0.07	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	-	-
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:135

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Inlet to Water Treatment Plant (Anand Vihar)					
Date of Sampling	12-May-2023	10-Aug-2023	11-Nov-2023	9-Feb-2024	Acceptable	Permissible
Colour (Hazen)	1	1		2	5	15
Turbidity (NTU)	1	1	1	1	1	5
pH	7.46	8.09	8.11	8.04	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	82.03	48.2	69.4	72	200	600
Total Hardness (Ca CO3) (mg/L)	60	64.77	88.71	99.47	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	17.84	5.95	5.83	9.78	250	1000
Total Dissolve Solid(mg/L)	158	138	162	184	500	2000
Calcium(mg/L)	8.03	21.09	24.24	28.74	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	12.48	21.9	4.02	6.14	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.35	0.33	0.44	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	0.05	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

Table:136

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)				Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Outlet to Water Treatment Plant (Anand Vihar)					
Date of Sampling	12-May-2023	10-Aug-2023	11-Nov-2023	9-Feb-2024	Acceptable	Permissible
Colour (Hazen)	2	1		3	5	15
Turbidity (NTU)	1	1	1	1	1	5
pH	7.52	8.15	7.82	7.93	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	71.4	28.1	61.2	68	200	600
Total Hardness (Ca CO3) (mg/L)	52	72.87	92.75	107.43	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	19.8	11.89	9.72	11.74	250	1000
Total Dissolve Solid(mg/L)	164	124	156	170	500	2000
Calcium(mg/L)	16.16	22.72	32.32	31.94	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	14.72	33.5	4.15	6.78	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.43	0.36	0.79	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	0.08	<0.04	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.2	<0.2	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	Not Detected	Not Detected	Not Detected	Not Detected	–	–
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2	0.2	1.0
Phenolics(mg/L)	<0.001	<0.001	<0.001	<0.001	0.001	0.002
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

PIEZOMETER DEPTH MEASUREMENT



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9.2.5 PIEZOMETER MEASUREMENT DATA

Table:137

Area	Project	Name of the Station	Date of Sampling	Below Ground Levels (meter)
Ib valley	Samaleswari OCP	Piezometer No MIP 04; Village Kutabaga; (Believer's Church School) Latitude 21° 47 '55" N Longitude 83°56'24" E	31-May-23	11
		Piezometer No MIP 04; Village Kutabaga; (Believer's Church School) Latitude 21° 47 '55" N Longitude 83°56'24" E	17-Aug-23	2.85
		Piezometer No MIP 04; Village Kutabaga; (Believer's Church School) Latitude 21° 47 '55" N Longitude 83°56'24" E	28-Nov-23	Online water level Monitoring system installed. Depth and water quality could not be measured.
		Piezometer No MIP 04; Village Kutabaga; (Believer's Church School) Latitude 21° 47 '55" N Longitude 83°56'24" E	24-Jan-24	9.26
	Lajkura OCP	Piezometer No MIP 02; Village Gumadera; Village High School 21°47'50" N Longitude 83°52'37" E	30-May-23	30
		Piezometer No MIP 02; Village Gumadera; Village High School 21°47'50" N Longitude 83°52'37" E	17-Aug-23	Villagers Obstruction
		Piezometer No MIP 02; Village Gumadera; Village High School 21°47'50" N Longitude 83°52'37" E	27-Nov-23	23.4
		Piezometer No MIP 02; Village Gumadera; Village High School 21°47'50" N Longitude 83°52'37" E	24-Jan-24	Inaccessible
Lakhanpur	Lakhanpur	Piezometer No MIP 09; Village Junion; Inside the Premisses of State Govt. Horticulture Institute Latitude 21°45'49" N Longitude 83°47'42" E.	31-May-23	10.2
		Piezometer No MIP 09; Village Junion; Inside the Premisses of State Govt. Horticulture Institute Latitude 21°45'49" N Longitude 83°47'42" E.	17-Aug-23	Pump fitted
		Piezometer No MIP 09; Village Junion; Inside the Premisses of State Govt. Horticulture Institute Latitude 21°45'49" N Longitude 83°47'42" E.	28-Nov-23	14.27
		Piezometer No MIP 09; Village Junion; Inside the Premisses of State Govt. Horticulture Institute Latitude 21°45'49" N Longitude 83°47'42" E.	24-Jan-24	8.64
		Piezometer No MIP 10; Village Dahaldera; Inside the Premisses of UP School. Latitude 21 ° 46 '51" N Longitude 83 ° 48'47" E	29-May-23	17.1
		Piezometer No MIP 10; Village Dahaldera; Inside the Premisses of UP School. Latitude 21 ° 46 '51" N Longitude 83 ° 48'47" E	17-Aug-23	14.0
		Piezometer No MIP 10; Village Dahaldera; Inside the Premisses of UP School. Latitude 21 ° 46 '51" N Longitude 83 ° 48'47" E	28-Nov-23	18.4
		Piezometer No MIP 10; Village Dahaldera; Inside the Premisses of UP School. Latitude 21 ° 46 '51" N Longitude 83 ° 48'47" E	24-Jan-24	6.25
Lakhanpur	Lilari OCP	Piezometer No MIP 06; Infront of Lilari Mines Project Office. Latitude 21.77826 N Longitude 85.8580 E	29-May-23	38.1

		Piezometer No MIP 06; Infront of Lilari Mines Project Office. Latitude 21.77826 N Longitude 85.8580 E	17-Aug-23	20.46
		Piezometer No MIP 06; Infront of Lilari Mines Project Office. Latitude 21.77826 N Longitude 85.8580 E	28-Nov-23	42.5
		Piezometer No MIP 06; Infront of Lilari Mines Project Office. Latitude 21.77826 N Longitude 85.8580 E	24-Jan-24	15.53
Lakhanpur	Belpahar	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation Latitude 21.01800 N Longitude 85.13027 E	29-May-23	4
		Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation Latitude 21.01800 N Longitude 85.13027 E	17-Aug-23	Online Monitoring
		Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation Latitude 21.01800 N Longitude 85.13027 E	28-Nov-23	18
		Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation Latitude 21.01800 N Longitude 85.13027 E	24-Jan-24	4.18
		Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik Vidyalaya Latitude 21.01800 N Longitude 85.13027 E	29-May-23	8
		Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik Vidyalaya Latitude 21.01800 N Longitude 85.13027 E	17-Aug-23	6.0
		Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik Vidyalaya Latitude 21.01800 N Longitude 85.13027 E	28-Nov-23	23.5
		Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik Vidyalaya Latitude 21.01800 N Longitude 85.13027 E	24-Jan-24	12.29
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	30-May-23	14
		Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	18-Aug-23	8.20
		Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	28-Nov-23	Casing folded depth could not be measured.
		Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	25-Jan-24	11.24
		Piezometer No MIP 15; Back Side of Sardega Primary School. Latitude 22 °4'8" N Longitude 83°43'19" E	30-May-23	Pump fitted depth could not be measured
		Piezometer No MIP 15; Back Side of Sardega Primary School. Latitude 22 °4'8" N Longitude 83°43'19" E	18-Aug-23	Pump fitted depth could not be measured
		Piezometer No MIP 15; Back Side of Sardega Primary School. Latitude 22 °4'8" N Longitude 83°43'19" E	29-Nov-23	Pump fitted depth could not be measured
		Piezometer No MIP 15; Back Side of Sardega Primary School. Latitude 22 °4'8" N Longitude 83°43'19" E	25-Jan-24	Pump fitted depth could not be measured
Mahalaxmi	Basundhara			
		Piezometer No MIP 16; Village Kulhparha (new basti) on the road from	30-May-23	29

Basundhara		Sardegga to Gopalpur Latitude 22 °3'25" N Longitude 83 ° 42'36" E		
		Piezometer No MIP 16; Village Kulhapparha (new basti) on the road from Sardegga to Gopalpur Latitude 22 °3'25" N Longitude 83 ° 42'36" E	18-Aug-23	21.12
		Piezometer No MIP 16; Village Kulhapparha (new basti) on the road from Sardegga to Gopalpur Latitude 22 °3'25" N Longitude 83 ° 42'36" E	29-Nov-23	58.87
		Piezometer No MIP 16; Village Kulhapparha (new basti) on the road from Sardegga to Gopalpur Latitude 22 °3'25" N Longitude 83 ° 42'36" E	25-Jan-24	18.74
		Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp. Latitude 22° 3' 15"N Longitude 83 ° 42'17" E	30-May-23	14
		Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp. Latitude 22° 3' 15"N Longitude 83 ° 42'17" E	18-Aug-23	6.50
		Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp. Latitude 22° 3' 15"N Longitude 83 ° 42'17" E	29-Nov-23	22.85
		Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp. Latitude 22° 3' 15"N Longitude 83 ° 42'17" E	25-Jan-24	8.62
	Kulda OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	30-May-23	43
		Piezometer No MIP 01; Village Garjanbahal (Village School Campus) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	18-Aug-23	24.32
		Piezometer No MIP 01; Village Garjanbahal (Village School Campus) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	28-Nov-23	28.5
		Piezometer No MIP 01; Village Garjanbahal (Village School Campus) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	25-Jan-24	13.84
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School. Latitude 22.013755 N Longitude 83.745114 E	30-May-23	Pump fitted , depth could not be measured
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School. Latitude 22.013755 N Longitude 83.745114 E	18-Aug-23	Pump fitted , depth could not be measured
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School. Latitude 22.013755 N Longitude 83.745114 E	29-Nov-23	Pump fitted, Depth could not be measured.
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School. Latitude 22.013755 N Longitude 83.745114 E	25-Jan-24	Pump fitted , depth could not be measured
		Piezometer No MIP 12; Village Balinga; MCL Office. Latitude 22 ° 1'59 " N Longitude 83°45'15" E	30-May-23	2.4
		Piezometer No MIP 12; Village Balinga; MCL Office. Latitude 22 ° 1'59 " N Longitude 83°45'15" E	18-Aug-23	1.52
		Piezometer No MIP 12; Village Balinga; MCL Office. Latitude 22 ° 1'59 " N Longitude 83°45'15" E	29-Nov-23	14.6
		Piezometer No MIP 12; Village Balinga; MCL Office. Latitude 22 ° 1'59 " N Longitude 83°45'15" E	25-Jan-24	3.1

		Piezometer No MIP 14; Village Kulda; Primary School Campus. Latitude 22 ° 1'55" N Longitude 83°43'47" E	30-May-23	Demolished
		Piezometer No MIP 14; Village Kulda; Primary School Campus. Latitude 22 ° 1'55" N Longitude 83°43'47" E	18-Aug-23	Demolished
		Piezometer No MIP 14; Village Kulda; Primary School Campus. Latitude 22 ° 1'55" N Longitude 83°43'47" E	29-Nov-23	69.5
		Piezometer No MIP 14; Village Kulda; Primary School Campus. Latitude 22 ° 1'55" N Longitude 83°43'47" E	25-Jan-24	Inaccessible
Basundhara	Garjanbahal OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus)(Reported only) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	30-May-23	43
		Piezometer No MIP 01; Village Garjanbahal (Village School Campus)(Reported only) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	18-Aug-23	24.32
		Piezometer No MIP 01; Village Garjanbahal (Village School Campus)(Reported only) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	29-Nov-23	28.5
		Piezometer No MIP 01; Village Garjanbahal (Village School Campus)(Reported only) Latitude 22 °0'41" N Longitude 83 ° 45'52" E	25-Jan-24	3.84
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only) Latitude 22.013755 N Longitude 83.745114 E	30-May-23	Pump fitted depth could not be measured
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only) Latitude 22.013755 N Longitude 83.745114 E	18-Aug-23	Pump fitted depth could not be measured
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only) Latitude 22.013755 N Longitude 83.745114 E	29-Nov-23	Pump fitted depth could not be measured
		Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only) Latitude 22.013755 N Longitude 83.745114 E	25-Jan-24	Pump fitted depth could not be measured
Orinet	Orient Mine No. 1 & 2	Piezometer No MIP 03; Beside Ib Valley GM House. Latitude 21.85446 N Longitude 83.926961 E	31-May-23	5
		Piezometer No MIP 03; Beside Ib Valley GM House. Latitude 21.85446 N Longitude 83.926961 E	17-Aug-23	Pump fitted
		Piezometer No MIP 03; Beside Ib Valley GM House. Latitude 21.85446 N Longitude 83.926961 E	27-Nov-23	13.75
		Piezometer No MIP 03; Beside Ib Valley GM House. Latitude 21.85446 N Longitude 83.926961 E	23-Jan-24	3.29
	Orient Mine No. 3	Piezometer No MIP 05; Village Chauliberna; Inside Nursing high School Campus Latitude 21 °49'4" N Longitude 83°52'43"E	31-May-23	35
		Piezometer No MIP 05; Village Chauliberna; Inside Nursing high School Campus Latitude 21 °49'4" N Longitude 83°52'43"E	17-Aug-23	21
		Piezometer No MIP 05; Village Chauliberna; Inside Nursing high School Campus Latitude 21 °49'4" N Longitude 83°52'43"E	27-Nov-23	28.58

		Piezometer No MIP 05; Village Chauliberna; Inside Nursing high School Campus Latitude21 °49'4" N Longitude 83°52'43"E	23-Jan-24	14.47
	HBI	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only) Latitude21 °49'4" N Longitude 83°52'43"E	31-May-23	35
		Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only) Latitude21 °49'4" N Longitude 83°52'43"E	17-Aug-23	21
		Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only) Latitude21 °49'4" N Longitude 83°52'43"E	27-Nov-23	28.58
		Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only) Latitude21 °49'4" N Longitude 83°52'43"E	23-Jan-24	14.47



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PIEZOMETER ANALYSIS DATA

Table:138

Project / OCP	Samaleswari OCP	Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 04, GW level and quality, Kutabaga Village Belivers Church School,		
Date of Sampling	31-May-23	Acceptable	Permissible
Colour(Hazen)	4	5	15
pH	6.79	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	31.2	200	600
Total Hardness (Ca CO ₃)(mg/L)	32	200	600
Iron(mg/L)	<0.1	0.3	No relaxation
Chloride(mg/L)	17.84	250	1000
Total Dissolve Solid(mg/L)	88	500	2000
Calcium(mg/L)	6.46	75	200
Copper(mg/L)	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.1	0.3
Sulphate(mg/L)	2.17	200	400
Nitrate(mg/L)	2.73	45	No relaxation
Fluoride(mg/L)	0.34	1	1.5
Arsenic(mg/L)	<0.005	0.01	0.05
Lead(mg/L)	<0.005	0.01	No relaxation
Zinc(mg/L)	0.3	5	15
Total Chromium (mg/L)	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	0.2	1
Phenolics (mg/L)	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	0.01	No relaxation

Table:139

Project / OCP	Lajkura OCP	Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 02, GW level and quality, Jamkani Village High School, Gumadera		
Date of Sampling	30-May-23	Acceptable	Permissible
Colour(Hazen)	3	5	15
pH	7.78	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	147.2	200	600
Total Hardness (Ca CO₃)(mg/L)	88.71	200	600
Iron(mg/L)	<0.1	0.3	No relaxation
Chloride(mg/L)	23.78	250	1000
Total Dissolve Solid(mg/L)	208	500	2000
Calcium(mg/L)	14.55	75	200
Copper(mg/L)	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.1	0.3
Sulphate(mg/L)	0.63	200	400
Nitrate(mg/L)	<2.0	45	No relaxation
Fluoride(mg/L)	0	1	1.5
Arsenic(mg/L)	<0.005	0.01	0.05
Lead(mg/L)	<0.005	0.01	No relaxation
Zinc(mg/L)	0.05	5	15
Total Chromium (mg/L)	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	-	-
Residual Free Chlorine (mg/L)	<0.02	0.2	1
Phenolics (mg/L)	<0.002	0.001	0.002
Selenium (mg/L)	<0.005	0.01	No relaxation

Table: 140

Project / OCP	Lakhanpur OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 09, GW level and quality (Village Junion inside premises of state govt horticulture insitute)	Piezometer No. MIP 10, GW level and quality (May) Village Dahaldera inside premises of UP school.		
Date of Sampling	31-May-23	29-May-23	Acceptable	Permissible
Colour(Hazen)	2	2	5	15
pH	6.32	7.76	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	13.4	178.4	200	600
Total Hardness (Ca CO ₃)(mg/L)	52.43	141.13	200	600
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	35.68	15.86	250	1000
Total Dissolve Solid(mg/L)	110	254	500	2000
Calcium(mg/L)	12.93	32.32	75	200
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	0.2	<0.04	0.1	0.3
Sulphate(mg/L)	18.35	11.52	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	0.44	0.52	1	1.5
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.35	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	0.001	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	<0.2	0.2	1
Phenolics (mg/L)	<0.001	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	<0.005	0.01	No relaxation

Table: 141

Project / OCP	Belpahar OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 07, GW level and quality (May) Infront of DAV School Bandhbahal inside colony substation	Piezometer No. MIP 08, GW level and quality (May) Village Kushraloi inside premises of prathamik vidyalaya		
Date of Sampling	29-May-23	29-May-23	Acceptable	Permissible
Colour(Hazen)	3	2	5	15
pH	7.73	6.69	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	169.5	98.1	200	600
Total Hardness (Ca CO ₃)(mg/L)	145.17	32.26	200	600
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	5.95	5.95	250	1000
Total Dissolve Solid(mg/L)	224	1.6	500	2000
Calcium(mg/L)	35.55	8.08	75	200
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.12	0.1	0.3
Sulphate(mg/L)	1.78	0.63	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	0.39	0.4	1	1.5
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	0.25	5	15
Total Chromium (mg/L)	<0.01	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	<0.2	0.2	1
Phenolics (mg/L)	<0.001	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	<0.005	0.01	No relaxation

Table: 142

Project / OCP	Basundhara OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 16, GW level and quality (May) Village Kulhapara (new basti) on the road from sardega to Gopalpur	Piezometer No. MIP 17, GW level and quality (May) Village Gopalpur CMPDI Exploration camp		
Date of Sampling	30-May-23	30-May-23	Acceptable	Permissible
Colour(Hazen)	1	2	5	15
pH	7.68	7.61	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	151.68	129.3	200	600
Total Hardness (Ca CO ₃)(mg/L)	104.84	137.10	200	600
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	11.89	31.71	250	1000
Total Dissolve Solid(mg/L)	220	232	500	2000
Calcium(mg/L)	30.32	37.17	75	200
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	26.46	12.03	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	0.34	0.39	1	1.5
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.06	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	<0.2	0.2	1
Phenolics (mg/L)	<0.001	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	<0.005	0.01	No relaxation

Table: 143

Project / OCP	Kulda OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 01, GW level and quality (May) Garjan bahal village school campus	Piezometer No. MIP 11, GW level and quality (May) Karlikachar infront of primary school (pump fitted)		
Date of Sampling	30-May-23	30-May-23	Acceptable	Permissible
Colour(Hazen)	2	3	5	15
pH	6.89	7.88	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	111.5	200.7	200	600
Total Hardness (Ca CO ₃)(mg/L)	112.91	169.36	200	600
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	61.44	25.77	250	1000
Total Dissolve Solid(mg/L)	288	278	500	2000
Calcium(mg/L)	29.1	30.71	75	200
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	0.39	<0.04	0.1	0.3
Sulphate(mg/L)	64.43	30.25	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	0.38	0.63	1	1.5
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Lead(mg/L)	0.006	<0.005	0.01	No relaxation
Zinc(mg/L)	0.22	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	<0.2	0.2	1
Phenolics (mg/L)	<0.001	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	<0.005	0.01	No relaxation

Table: 144

Project / OCP	Kulda OCP	Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 12, GW level and quality (May)Village Balinga , In front of MCL office		
Date of Sampling	30-May-23	Acceptable	Permissible
Colour(Hazen)	3	5	15
pH	7.73	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	49.1	200	600
Total Hardness (Ca CO₃)(mg/L)	28.23	200	600
Iron(mg/L)	<0.1	0.3	No relaxation
Chloride(mg/L)	41.62	250	1000
Total Dissolve Solid(mg/L)	128	500	2000
Calcium(mg/L)	4.85	75	200
Copper(mg/L)	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.1	0.3
Sulphate(mg/L)	0.25	200	400
Nitrate(mg/L)	<2.0	45	No relaxation
Fluoride(mg/L)	0.39	1	1.5
Arsenic(mg/L)	<0.005	0.01	0.05
Lead(mg/L)	<0.005	0.01	No relaxation
Zinc(mg/L)	0.04	5	15
Total Chromium (mg/L)	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	0.5	2.4
Cadmium(mg/L)	0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	0.2	1
Phenolics (mg/L)	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	0.01	No relaxation

Table: 145

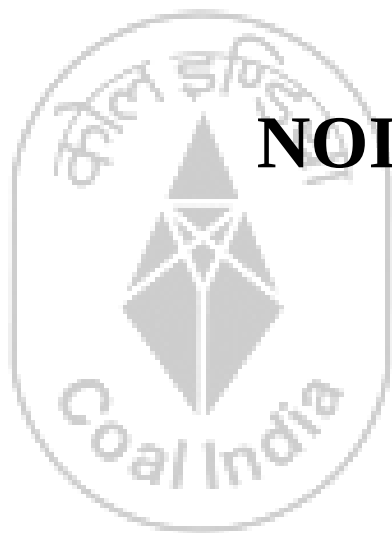
Project / OCP	Garjanbahal OCP	Garjanbahal OCP	Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 01, GW level and quality (May) Garjanbahal Village school campus (Reported only)	Piezometer No. MIP 11, GW level and quality (May) Karlikachhar infront of primary school. (Reported only)		
Date of Sampling	30-May-23	30-May-23	Acceptable	Permissible
Colour(Hazen)	2	3	5	15
pH	6.89	7.88	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	111.5	200.7	200	600
Total Hardness (Ca CO ₃)(mg/L)	112.91	169.36	200	600
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Chloride(mg/L)	61.44	25.77	250	1000
Total Dissolve Solid(mg/L)	288	278	500	2000
Calcium(mg/L)	29.1	30.71	75	200
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	0.39	<0.04	0.1	0.3
Sulphate(mg/L)	64.43	30.25	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	0.38	0.63	1	1.5
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Lead(mg/L)	0.006	<0.005	0.01	No relaxation
Zinc(mg/L)	0.22	<0.04	5	15
Total Chromium (mg/L)	<0.01	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	<0.2	0.2	1
Phenolics (mg/L)	<0.001	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	<0.005	0.01	No relaxation

Table: 146

Project / OCP	Orient Mine No. 3	Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 05, GW level and quality (May) Village Chauliberna inside narsing highschool campus		
Date of Sampling	31-May-23	Acceptable	Permissible
Colour(Hazen)	1	5	15
pH	6.88	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	17.8	200	600
Total Hardness (Ca CO₃)(mg/L)	28.23	200	600
Iron(mg/L)	<0.1	0.3	No relaxation
Chloride(mg/L)	21.80	250	1000
Total Dissolve Solid(mg/L)	84	500	2000
Calcium(mg/L)	8.08	75	200
Copper(mg/L)	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.1	0.3
Sulphate(mg/L)	4.94	200	400
Nitrate(mg/L)	12.03	45	No relaxation
Fluoride(mg/L)	0.45	1	1.5
Arsenic(mg/L)	<0.005	0.01	0.05
Lead(mg/L)	<0.005	0.01	No relaxation
Zinc(mg/L)	0.13	5	15
Total Chromium (mg/L)	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	0.2	1
Phenolics (mg/L)	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	0.01	No relaxation

Table: 147

Project / OCP	HBI Mine	Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer No. MIP 05, GW level and quality (May) Village Chauliberna inside narsing highschool campus (Reported only)		
Date of Sampling	31-May-23	Acceptable	Permissible
Colour(Hazen)	1	5	15
pH	6.88	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	17.8	200	600
Total Hardness (Ca CO ₃)(mg/L)	28.23	200	600
Iron(mg/L)	<0.1	0.3	No relaxation
Chloride(mg/L)	21.80	250	1000
Total Dissolve Solid(mg/L)	84	500	2000
Calcium(mg/L)	8.08	75	200
Copper(mg/L)	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	0.1	0.3
Sulphate(mg/L)	4.94	200	400
Nitrate(mg/L)	12.03	45	No relaxation
Fluoride(mg/L)	0.45	1	1.5
Arsenic(mg/L)	<0.005	0.01	0.05
Lead(mg/L)	<0.005	0.01	No relaxation
Zinc(mg/L)	0.13	5	15
Total Chromium (mg/L)	<0.01	0.01	No relaxation
Boron(mg/L)	<0.2	0.5	2.4
Cadmium(mg/L)	<0.001	0.003	No relaxation
MPN (Index/100ml)	BDL	-	-
Residual Free Chlorine (mg/L)	<0.2	0.2	1
Phenolics (mg/L)	<0.001	0.001	0.002
Selenium (mg/L)	<0.005	0.01	No relaxation



NOISE QUALITY

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NOISE LEVEL MONITORING DATA

Table:10.1

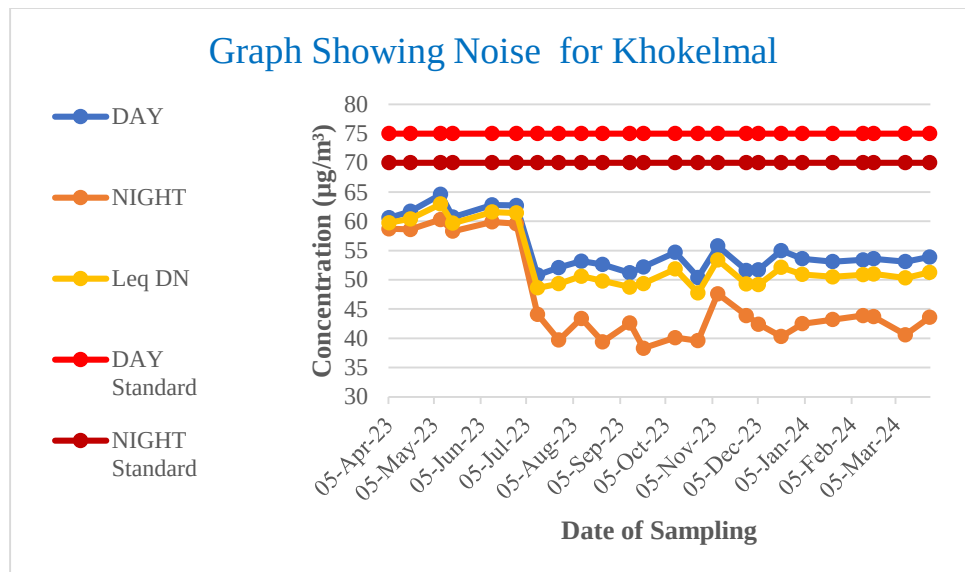
Area: Ib Valley Area

Project: Lajkura OCP

Monitoring Station: Khokelmal

DATE	DAY	NIGHT	Leq DN
05-Apr-23	60.6	58.7	59.8
19-Apr-23	61.7	58.6	60.4
09-May-23	64.6	60.3	63.0
17-May-23	60.7	58.3	59.7
12-Jun-23	62.8	59.9	61.6
28-Jun-23	62.7	59.6	61.4
12-Jul-23	50.8	44.1	48.6
26-Jul-23	52.1	39.7	49.3
10-Aug-23	53.2	43.4	50.6
24-Aug-23	52.6	39.4	49.8
11-Sep-23	51.2	42.6	48.8
20-Sep-23	52.2	38.3	49.4
11-Oct-23	54.7	40.1	51.8
26-Oct-23	50.4	39.6	47.7
08-Nov-23	55.8	47.6	53.4
27-Nov-23	51.6	43.9	49.3
05-Dec-23	51.7	42.4	49.2
20-Dec-23	55	40.3	52.1
03-Jan-24	53.6	42.5	50.9
23-Jan-24	53.1	43.2	50.5
12-Feb-24	53.4	43.9	50.9
19-Feb-24	53.6	43.7	51.0
11-Mar-24	53.1	40.6	50.3
27-Mar-24	53.9	43.6	51.3
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	50.4	38.3	47.7
Maximum	64.6	60.3	63.0
Mean	55.2	46.4	52.9

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



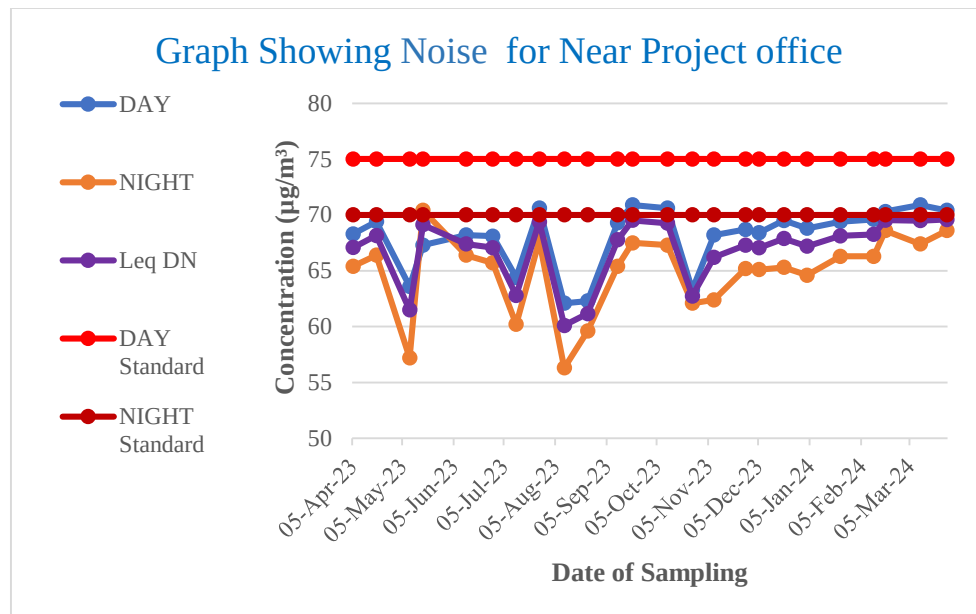
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Table:10.2
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: Near Project Office

DATE	DAY	NIGHT	Leq DN(dB)
05-Apr-23	68.3	65.4	67.1
19-Apr-23	69.4	66.4	68.2
09-May-23	63.6	57.2	61.5
17-May-23	67.3	70.4	69.1
12-Jun-23	68.2	66.4	67.4
28-Jun-23	68.1	65.7	67.1
12-Jul-23	64.4	60.2	62.8
26-Jul-23	70.6	67.7	69.4
10-Aug-23	62.1	56.3	60.1
24-Aug-23	62.3	59.6	61.2
11-Sep-23	69.3	65.4	67.8
20-Sep-23	70.9	67.5	69.5
11-Oct-23	70.6	67.3	69.3
26-Oct-23	63.3	62.1	62.7
08-Nov-23	68.2	62.4	66.2
27-Nov-23	68.7	65.2	67.3
05-Dec-23	68.4	65.1	67.1
20-Dec-23	69.5	65.3	67.9
03-Jan-24	68.8	64.6	67.2
23-Jan-24	69.4	66.3	68.1
12-Feb-24	69.6	66.3	68.3
19-Feb-24	70.3	68.6	69.5
11-Mar-24	70.9	67.4	69.5
27-Mar-24	70.4	68.6	69.6
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	62.1	56.3	60.1
Maximum	70.9	70.4	69.6
Mean	68.0	64.9	66.8

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



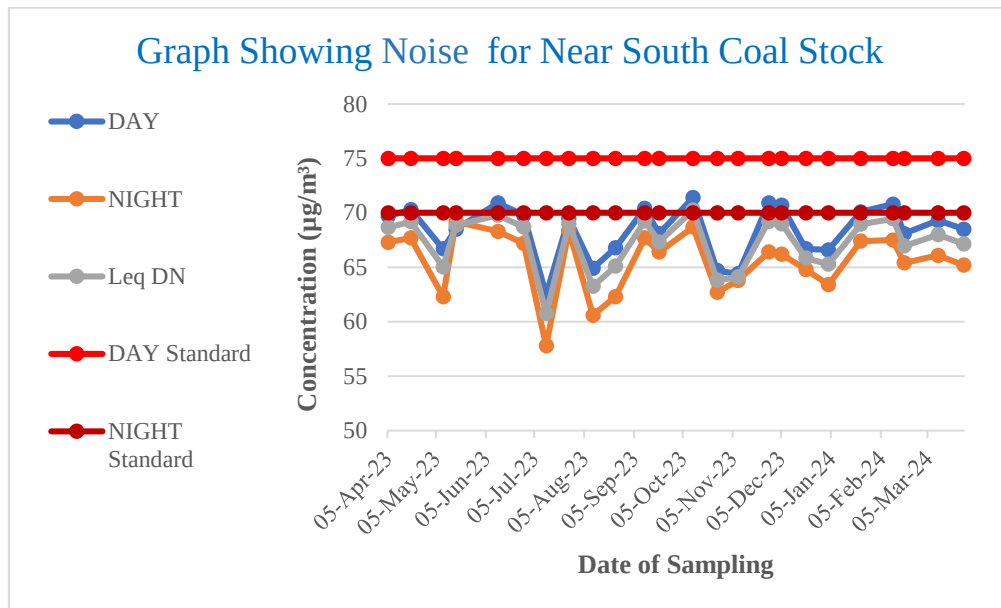
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Table:10.3
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: Near South Coal Stock

DATE	DAY	NIGHT	Leq DN(dB)
05-Apr-23	69.7	67.3	68.7
19-Apr-23	70.3	67.7	69.2
09-May-23	66.7	62.3	65.0
17-May-23	68.5	69.2	68.9
12-Jun-23	70.9	68.3	69.8
28-Jun-23	69.8	67.2	68.7
12-Jul-23	62.5	57.8	60.8
26-Jul-23	69.5	68.4	69.0
10-Aug-23	64.9	60.6	63.3
24-Aug-23	66.8	62.3	65.1
11-Sep-23	70.4	67.7	69.3
20-Sep-23	68.1	66.4	67.3
11-Oct-23	71.4	68.7	70.3
26-Oct-23	64.7	62.7	63.8
08-Nov-23	64.4	63.8	64.1
27-Nov-23	70.9	66.4	69.2
05-Dec-23	70.7	66.2	69.0
20-Dec-23	66.7	64.8	65.9
03-Jan-24	66.6	63.4	65.3
23-Jan-24	70.1	67.4	69.0
12-Feb-24	70.8	67.5	69.5
19-Feb-24	68.1	65.4	67.0
11-Mar-24	69.3	66.1	68.0
27-Mar-24	68.5	65.2	67.2
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	62.5	57.8	60.8
Maximum	71.4	69.2	70.3
Mean	68.3	65.5	67.2

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



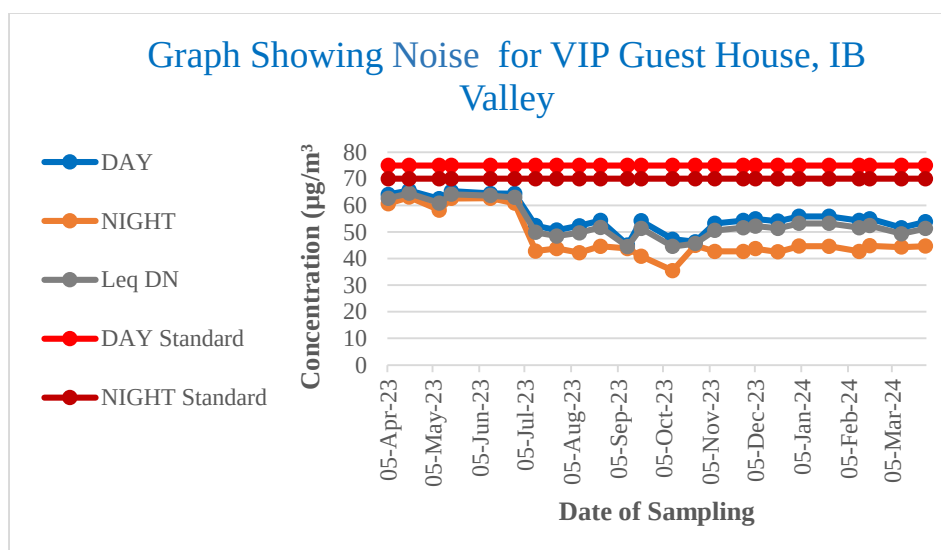
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Table:10.4
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: VIP Guest House, IB Valley

DATE	DAY	NIGHT	Leq DN(dB)
05-Apr-23	64.1	60.6	62.7
19-Apr-23	65.6	63.1	64.5
09-May-23	62.5	58.2	60.9
17-May-23	65.3	62.6	64.2
12-Jun-23	64.5	62.7	63.7
28-Jun-23	64.4	60.8	63.0
12-Jul-23	52.4	42.8	49.8
26-Jul-23	50.7	43.8	48.5
10-Aug-23	52.3	42.2	49.7
24-Aug-23	54.3	44.6	51.7
11-Sep-23	45.1	43.8	44.5
20-Sep-23	54.2	40.9	51.4
11-Oct-23	47.3	35.5	44.6
26-Oct-23	46.3	44.9	45.7
08-Nov-23	53.2	42.7	50.6
27-Nov-23	54.3	42.7	51.6
05-Dec-23	54.9	43.7	52.2
20-Dec-23	54.1	42.5	51.4
03-Jan-24	55.9	44.7	53.2
23-Jan-24	55.9	44.6	53.2
12-Feb-24	54.3	42.7	51.6
19-Feb-24	55	44.8	52.4
11-Mar-24	51.6	44.3	49.3
27-Mar-24	53.8	44.7	51.3
Brief Statistic	Day	Night	Leq DN
Minimum	45.1	35.5	44.5
Maximum	65.6	63.1	64.5
Mean	55.5	47.7	53.4

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



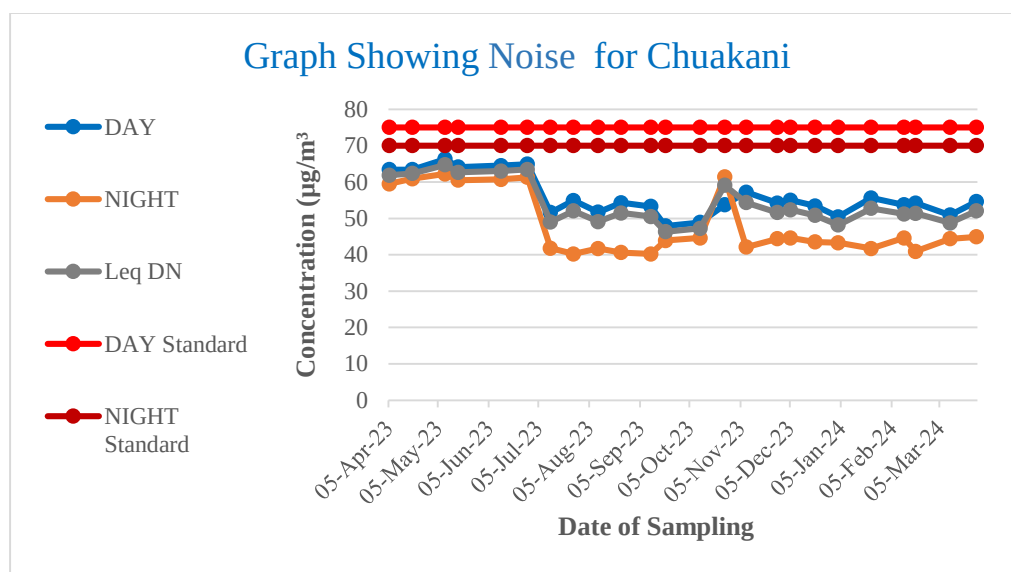
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Table:10.5
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: Chuakani

DATE	DAY	NIGHT	Leq DN(dB)
05-Apr-23	63.4	59.5	61.9
19-Apr-23	63.4	60.9	62.3
09-May-23	66.3	62.2	64.7
17-May-23	64.1	60.5	62.7
12-Jun-23	64.5	60.7	63.0
28-Jun-23	64.9	61.3	63.5
12-Jul-23	51.6	41.8	49.0
26-Jul-23	54.9	40.2	52.0
10-Aug-23	51.7	41.7	49.1
24-Aug-23	54.3	40.6	51.5
11-Sep-23	53.3	40.2	50.5
20-Sep-23	47.9	43.9	46.3
11-Oct-23	48.9	44.6	47.3
26-Oct-23	53.7	61.4	59.1
08-Nov-23	57.2	42.1	54.3
27-Nov-23	54.2	44.4	51.6
05-Dec-23	55	44.6	52.4
20-Dec-23	53.4	43.5	50.8
03-Jan-24	50.4	43.3	48.2
23-Jan-24	55.6	41.7	52.8
12-Feb-24	53.7	44.6	51.2
19-Feb-24	54.2	40.9	51.4
11-Mar-24	50.9	44.4	48.8
27-Mar-24	54.6	44.9	52.0
Brief Statistic	Day	Night	Leq DN
Minimum	47.9	40.2	46.3
Maximum	66.3	62.2	64.7
Mean	55.9	48.1	54.0

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



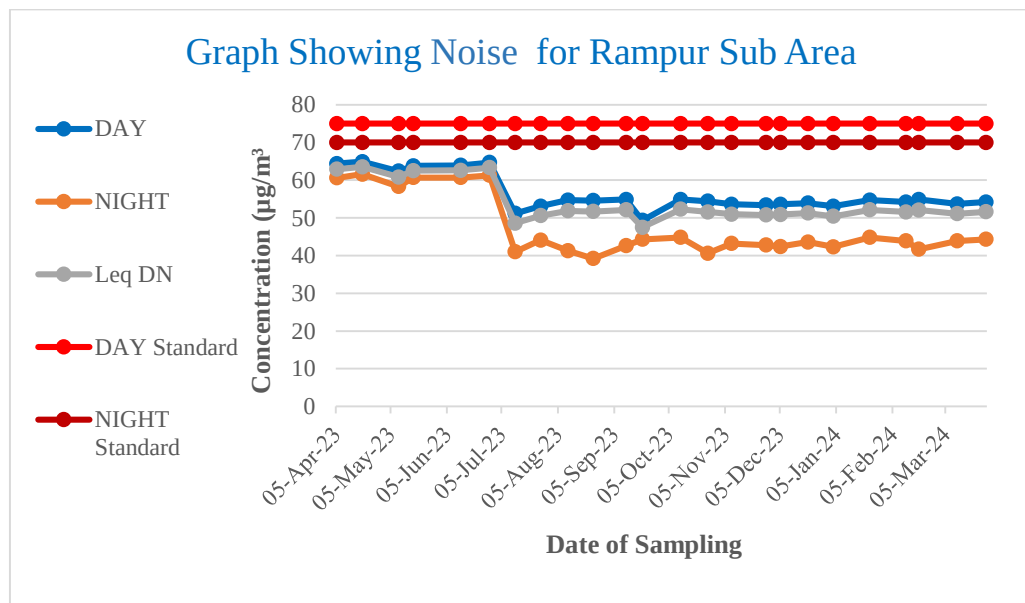
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Table:10.6
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: Rampur Sub Area

DATE	DAY	NIGHT	Leq DN(dB)
05-Apr-23	64.4	60.6	62.9
19-Apr-23	64.9	61.6	63.6
09-May-23	62.4	58.3	60.8
17-May-23	63.8	60.7	62.5
12-Jun-23	63.9	60.7	62.6
28-Jun-23	64.7	61.3	63.3
12-Jul-23	51.2	41	48.6
26-Jul-23	53.1	44.1	50.6
10-Aug-23	54.7	41.3	51.9
24-Aug-23	54.6	39.2	51.7
11-Sep-23	54.9	42.6	52.1
20-Sep-23	49.3	44.3	47.5
11-Oct-23	54.9	44.8	52.3
26-Oct-23	54.4	40.6	51.6
08-Nov-23	53.6	43.2	51.0
27-Nov-23	53.4	42.8	50.8
05-Dec-23	53.6	42.4	50.9
20-Dec-23	53.9	43.6	51.3
03-Jan-24	53.1	42.3	50.4
23-Jan-24	54.7	44.8	52.1
12-Feb-24	54.2	43.9	51.6
19-Feb-24	54.9	41.7	52.1
11-Mar-24	53.7	43.9	51.1
27-Mar-24	54.2	44.3	51.6
Brief Statistic	Day	Night	Leq DN
Minimum	49.3	39.2	47.5
Maximum	64.9	61.6	63.6
Mean	56.3	47.3	54.0

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



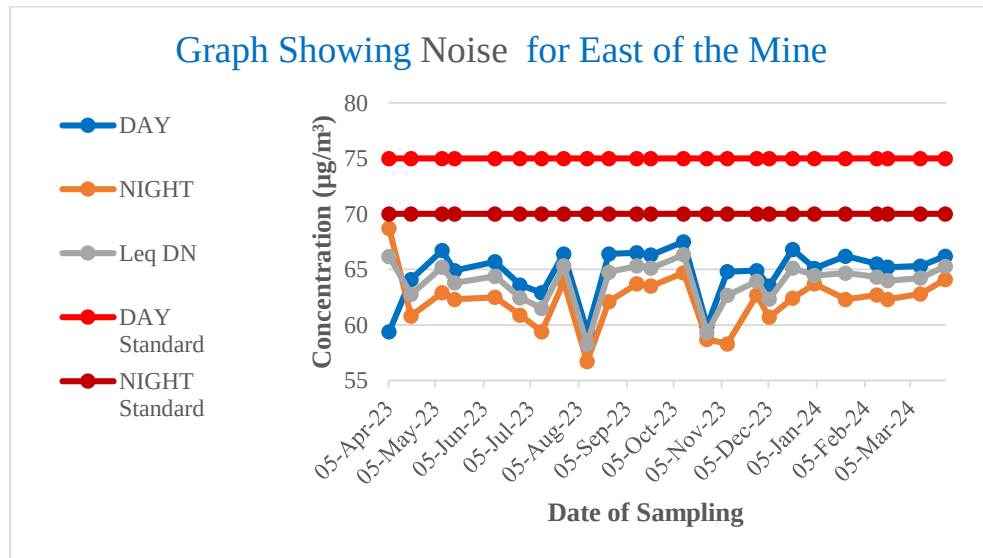
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Table 8.7
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: East of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
05-Apr-23	59.4	68.7	66.2
19-Apr-23	64.1	60.8	62.8
09-May-23	66.7	62.9	65.2
17-May-23	64.9	62.3	63.8
12-Jun-23	65.7	62.5	64.4
28-Jun-23	63.6	60.9	62.5
12-Jul-23	62.9	59.4	61.5
26-Jul-23	66.4	63.9	65.3
10-Aug-23	59.4	56.7	58.3
24-Aug-23	66.4	62.1	64.8
11-Sep-23	66.5	63.7	65.3
20-Sep-23	66.3	63.5	65.1
11-Oct-23	67.5	64.7	66.3
26-Oct-23	59.9	58.7	59.3
08-Nov-23	64.8	58.3	62.7
27-Nov-23	64.9	62.7	63.9
05-Dec-23	63.5	60.7	62.3
20-Dec-23	66.8	62.4	65.1
03-Jan-24	65.1	63.7	64.5
23-Jan-24	66.2	62.3	64.7
12-Feb-24	65.5	62.7	64.3
19-Feb-24	65.2	62.3	64.0
11-Mar-24	65.3	62.8	64.2
27-Mar-24	66.2	64.1	65.3
Brief Statistic	Day	Night	Leq DN
Minimum	59.4	56.7	58.3
Maximum	67.5	68.7	66.3
Mean	64.7	62.2	63.8

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



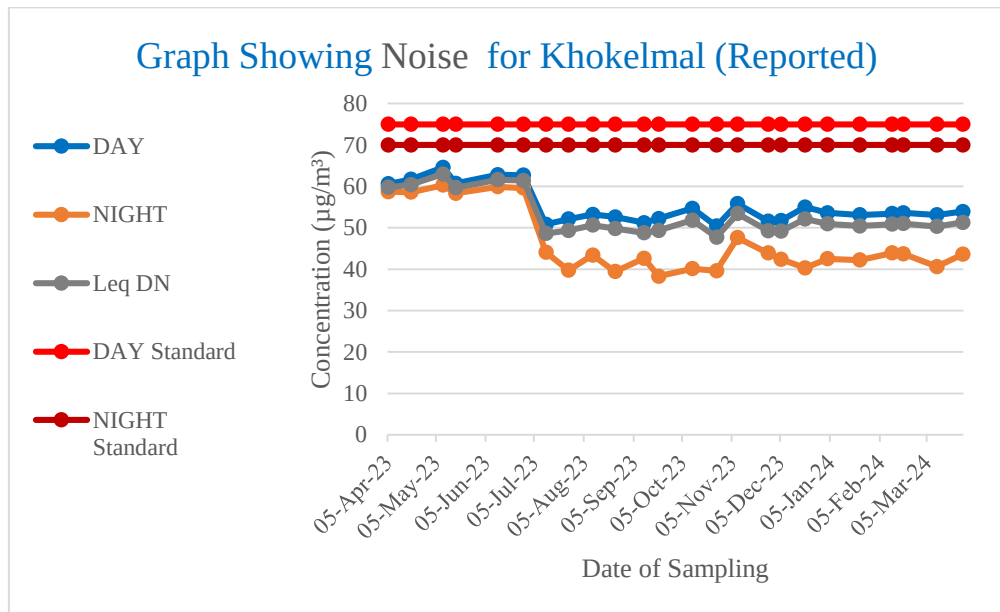
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Table:10.8
Area: IB Valley Area
Project: Samaleswari OCP
Monitoring Station: Khokelmal (Reported Only)

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	60.6	58.7	59.8
19-Apr-23	61.7	58.6	60.4
09-May-23	64.6	60.3	63.0
17-May-23	60.7	58.3	59.7
12-Jun-23	62.8	59.9	61.6
28-Jun-23	62.7	59.6	61.4
12-Jul-23	50.8	44.1	48.6
26-Jul-23	52.1	39.7	49.3
10-Aug-23	53.2	43.4	50.6
24-Aug-23	52.6	39.4	49.8
11-Sep-23	51.2	42.6	48.8
20-Sep-23	52.2	38.3	49.4
11-Oct-23	54.7	40.1	51.8
26-Oct-23	50.4	39.6	47.7
08-Nov-23	55.8	47.6	53.4
27-Nov-23	51.6	43.9	49.3
05-Dec-23	51.7	42.4	49.2
20-Dec-23	55	40.3	52.1
03-Jan-24	53.6	42.5	50.9
23-Jan-24	53.1	42.2	50.4
12-Feb-24	53.4	43.9	50.9
19-Feb-24	53.6	43.7	51.0
11-Mar-24	53.1	40.6	50.3
27-Mar-24	53.9	43.6	51.3
Brief Statistic	Day	Night	Leq DN
Minimum	50.4	38.3	47.7
Maximum	64.6	60.3	63.0
Mean	55.2	46.4	52.9

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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Table:10.9
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: South of the Mine

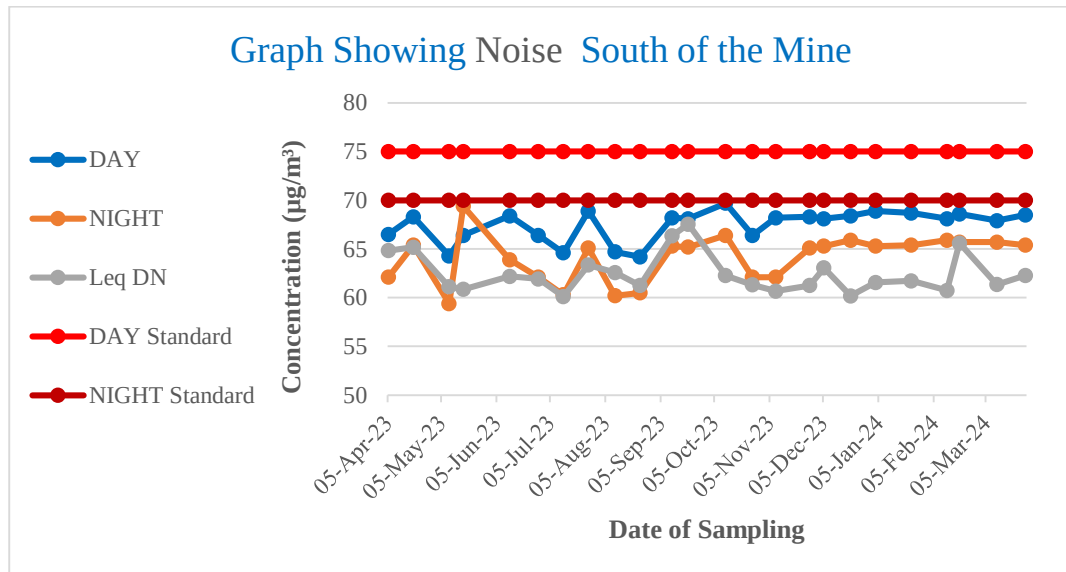
DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	66.5	62.1	64.8
19-Apr-23	68.3	65.4	65.2
09-May-23	64.3	59.4	61.1
17-May-23	66.4	69.4	60.9
12-Jun-23	68.4	63.9	62.2
28-Jun-23	66.4	62.1	61.9
12-Jul-23	64.6	60.3	60.1
26-Jul-23	68.9	65.1	63.4
10-Aug-23	64.7	60.2	62.6
24-Aug-23	64.2	60.5	61.2
11-Sep-23	68.2	65.3	66.4
20-Sep-23	68.1	65.2	67.5
11-Oct-23	69.7	66.4	62.3
26-Oct-23	66.4	62.1	61.3
08-Nov-23	68.2	62.1	60.7
27-Nov-23	68.3	65.1	61.2
05-Dec-23	68.1	65.3	63.1
20-Dec-23	68.4	65.9	60.2
03-Jan-24	68.9	65.3	61.6
23-Jan-24	68.7	65.4	61.7
12-Feb-24	68.1	65.9	60.7
19-Feb-24	68.6	65.7	65.6
11-Mar-24	67.9	65.7	61.4
27-Mar-24	68.5	65.4	62.3
Brief Statistic	Day	Night	Leq DN
Minimum	64.2	59.4	60.1
Maximum	69.7	69.4	67.5
Mean	67.5	64.1	62.5

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

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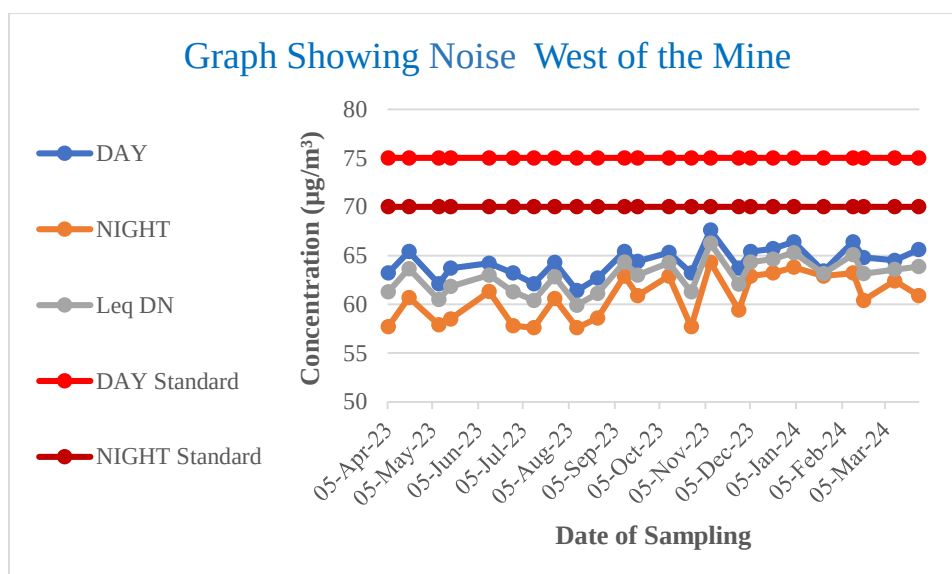
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Table:10.10
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: West of the Mine

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	63.2	57.7	61.3
19-Apr-23	65.4	60.7	63.7
09-May-23	62.1	57.9	60.5
17-May-23	63.7	58.5	61.8
12-Jun-23	64.2	61.3	63.0
28-Jun-23	63.2	57.8	61.3
12-Jul-23	62.1	57.6	60.4
26-Jul-23	64.3	60.6	62.8
10-Aug-23	61.4	57.6	59.9
24-Aug-23	62.7	58.6	61.1
11-Sep-23	65.4	62.9	64.3
20-Sep-23	64.4	60.9	63.0
11-Oct-23	65.3	62.9	64.3
26-Oct-23	63.2	57.7	61.3
08-Nov-23	67.6	64.3	66.3
27-Nov-23	63.7	59.4	62.1
05-Dec-23	65.4	62.9	64.3
20-Dec-23	65.7	63.2	64.6
03-Jan-24	66.4	63.8	65.3
23-Jan-24	63.4	62.9	63.2
12-Feb-24	66.4	63.2	65.1
19-Feb-24	64.8	60.4	63.1
11-Mar-24	64.5	62.4	63.6
27-Mar-24	65.6	60.9	63.9
Brief Statistic	Day	Night	Leq DN
Minimum	61.4	57.6	59.9
Maximum	67.6	64.3	66.3
Mean	64.3	60.7	62.9

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



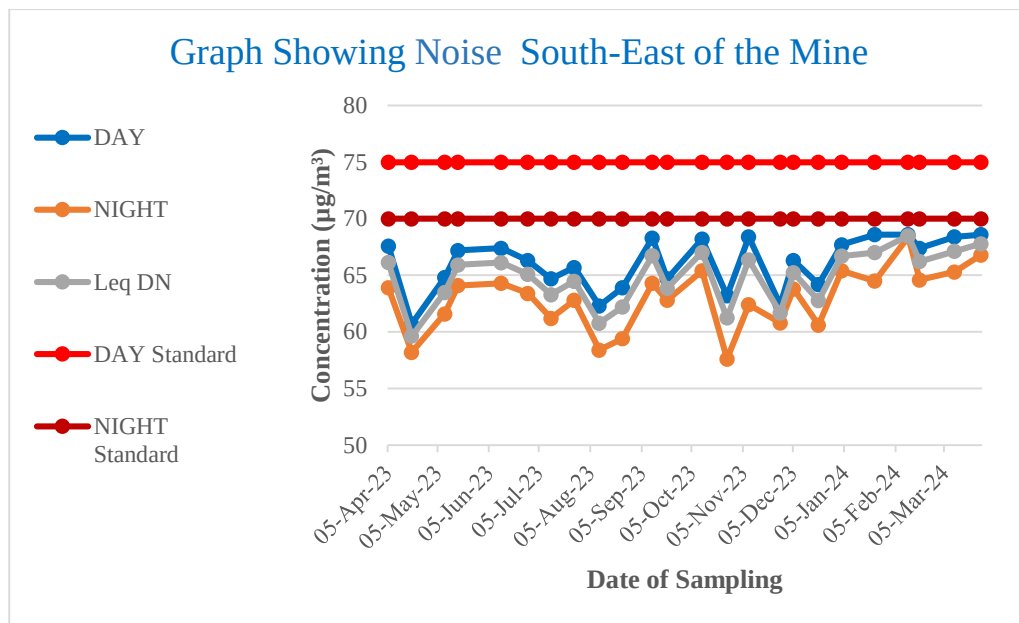
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Table:10.11
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: South-East of the Mine

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	67.6	63.9	66.1
19-Apr-23	60.7	58.2	59.6
09-May-23	64.8	61.6	63.5
17-May-23	67.2	64.1	65.9
12-Jun-23	67.4	64.3	66.1
28-Jun-23	66.3	63.4	65.1
12-Jul-23	64.7	61.2	63.3
26-Jul-23	65.7	62.8	64.5
10-Aug-23	62.3	58.4	60.8
24-Aug-23	63.9	59.4	62.2
11-Sep-23	68.3	64.3	66.7
20-Sep-23	64.7	62.8	63.9
11-Oct-23	68.2	65.4	67.0
26-Oct-23	63.2	57.6	61.2
08-Nov-23	68.4	62.4	66.4
27-Nov-23	62.4	60.8	61.7
05-Dec-23	66.3	63.8	65.2
20-Dec-23	64.2	60.6	62.8
03-Jan-24	67.7	65.4	66.7
23-Jan-24	68.6	64.5	67.0
12-Feb-24	68.6	68.4	68.5
19-Feb-24	67.4	64.6	66.2
11-Mar-24	68.4	65.3	67.1
27-Mar-24	68.6	66.8	67.8
Brief Statistic	Day	Night	Leq DN
Minimum	60.7	57.6	59.6
Maximum	68.6	68.4	68.5
Mean	66.1	62.9	64.8

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



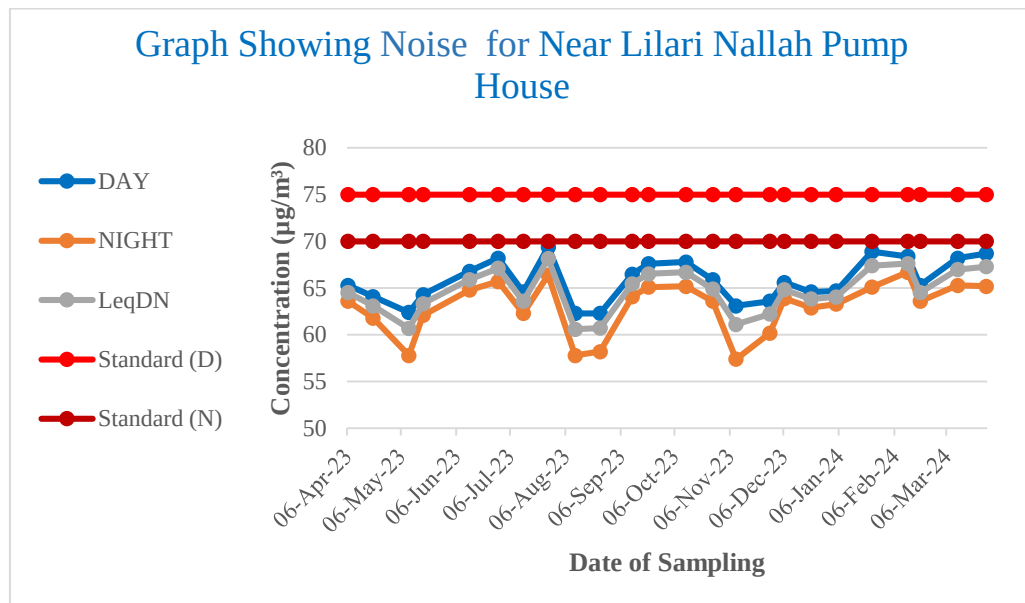
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Table: 10.12
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: Near Lilari Nallah Pump House

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	65.3	63.6	64.5
20-Apr-23	64.1	61.8	63.1
10-May-23	62.4	57.8	60.7
18-May-23	64.3	62.1	63.3
13-Jun-23	66.8	64.8	65.9
29-Jun-23	68.2	65.7	67.1
13-Jul-23	64.6	62.3	63.6
27-Jul-23	69.4	66.4	68.2
11-Aug-23	62.3	57.8	60.6
25-Aug-23	62.3	58.2	60.7
12-Sep-23	66.5	64.1	65.5
21-Sep-23	67.6	65.1	66.5
12-Oct-23	67.8	65.2	66.7
27-Oct-23	65.9	63.6	64.9
09-Nov-23	63.1	57.4	61.1
28-Nov-23	63.6	60.2	62.2
06-Dec-23	65.6	63.9	64.8
21-Dec-23	64.6	62.9	63.8
04-Jan-24	64.7	63.3	64.1
24-Jan-24	68.9	65.1	67.4
13-Feb-24	68.4	66.7	67.6
20-Feb-24	65.3	63.6	64.5
12-Mar-24	68.2	65.3	67.0
28-Mar-24	68.7	65.2	67.3
Brief Statistic	Day	Night	Leq DN
Minimum	62.3	57.4	60.6
Maximum	69.4	66.7	68.2
Mean	65.8	63.0	64.6

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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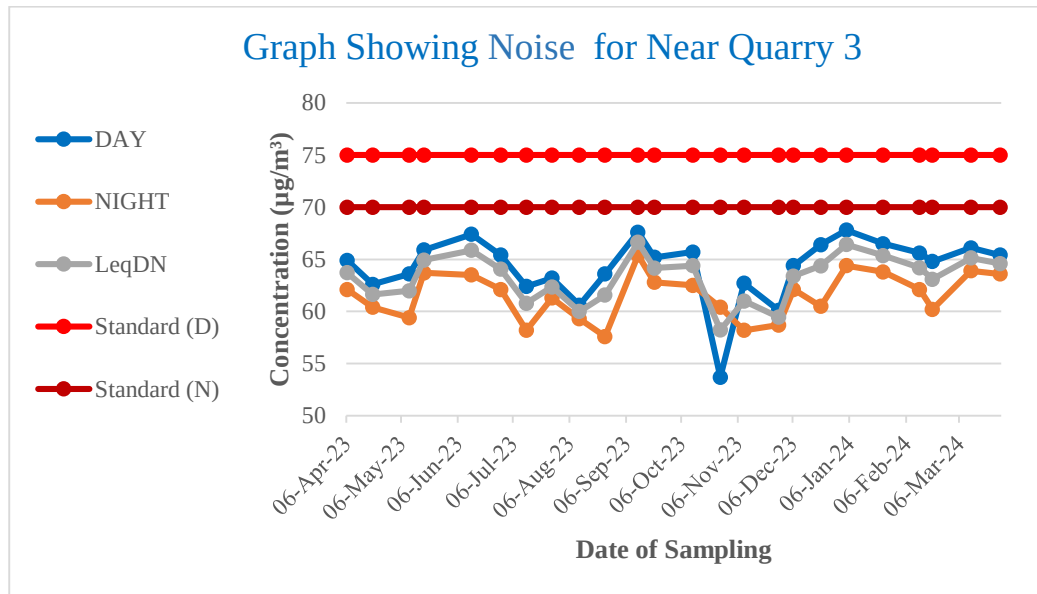
Table: 10.13
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: Near Quarry 3

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	64.9	62.1	63.7
20-Apr-23	62.6	60.4	61.6
10-May-23	63.6	59.4	62.0
18-May-23	65.9	63.7	64.9
13-Jun-23	67.4	63.5	65.9
29-Jun-23	65.4	62.1	64.1
13-Jul-23	62.4	58.2	60.8
27-Jul-23	63.2	61.3	62.4
11-Aug-23	60.6	59.3	60.0
25-Aug-23	63.6	57.6	61.6
12-Sep-23	67.6	65.4	66.6
21-Sep-23	65.2	62.8	64.2
12-Oct-23	65.7	62.5	64.4
27-Oct-23	53.7	60.4	58.2
09-Nov-23	62.7	58.2	61.0
28-Nov-23	60.1	58.7	59.5
06-Dec-23	64.4	62.1	63.4
21-Dec-23	66.4	60.5	64.4
04-Jan-24	67.8	64.4	66.4
24-Jan-24	66.5	63.8	65.4
13-Feb-24	65.6	62.1	64.2
20-Feb-24	64.8	60.2	63.1
12-Mar-24	66.1	63.9	65.1
28-Mar-24	65.4	63.6	64.6
Brief Statistic	Day	Night	Leq DN
Minimum	53.7	57.6	58.2
Maximum	67.8	65.4	66.6
Mean	64.2	61.5	63.2

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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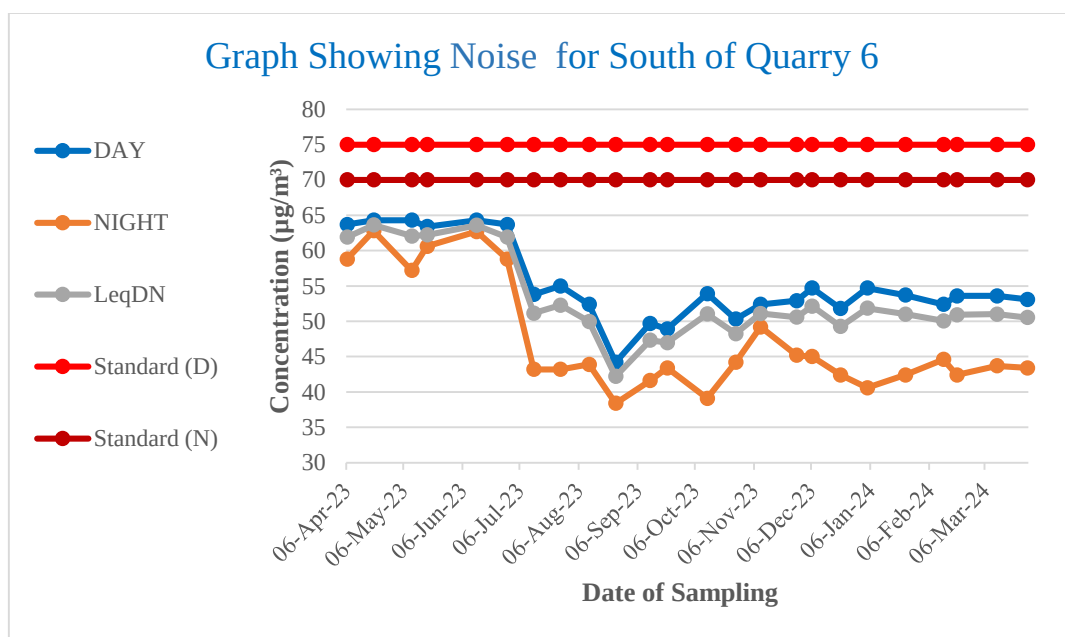
Table: 10.14
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: South of Quarry 6

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	63.7	58.8	61.9
20-Apr-23	64.3	62.8	63.6
10-May-23	64.3	57.2	62.1
18-May-23	63.4	60.6	62.2
13-Jun-23	64.3	62.7	63.6
29-Jun-23	63.7	58.8	61.9
13-Jul-23	53.8	43.2	51.2
27-Jul-23	55	43.2	52.3
11-Aug-23	52.4	43.9	50.0
25-Aug-23	44.2	38.4	42.2
12-Sep-23	49.7	41.6	47.3
21-Sep-23	48.9	43.4	47.0
12-Oct-23	53.9	39.1	51.0
27-Oct-23	50.3	44.2	48.2
09-Nov-23	52.4	49.2	51.1
28-Nov-23	52.9	45.2	50.6
06-Dec-23	54.7	45	52.1
21-Dec-23	51.8	42.4	49.3
04-Jan-24	54.7	40.6	51.9
24-Jan-24	53.7	42.4	51.0
13-Feb-24	52.4	44.6	50.1
20-Feb-24	53.6	42.4	50.9
12-Mar-24	53.6	43.7	51.0
28-Mar-24	53.1	43.4	50.5
Brief Statistic	Day	Night	Leq DN
Minimum	44.2	38.4	42.2
Maximum	64.3	62.8	63.6
Mean	55.2	47.4	53.0

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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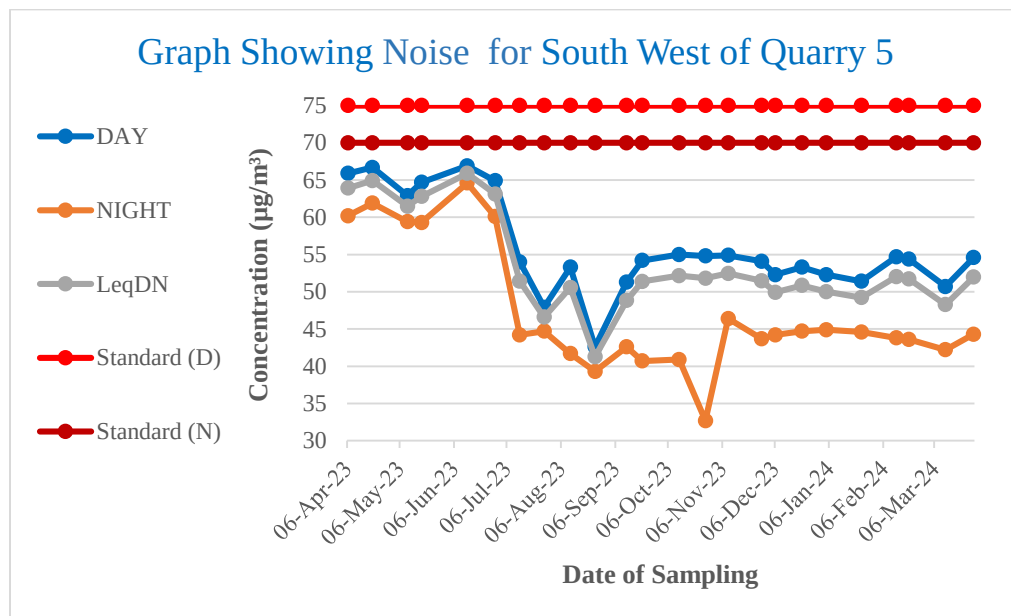
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Table: 10.15
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: South West of Quarry 5

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	65.9	60.2	63.9
20-Apr-23	66.7	61.9	64.9
10-May-23	62.9	59.4	61.5
18-May-23	64.7	59.3	62.8
13-Jun-23	66.9	64.6	65.9
29-Jun-23	64.9	60.1	63.1
13-Jul-23	54	44.2	51.4
27-Jul-23	47.9	44.7	46.6
11-Aug-23	53.3	41.7	50.6
25-Aug-23	42.6	39.3	41.3
12-Sep-23	51.3	42.6	48.8
21-Sep-23	54.2	40.7	51.4
12-Oct-23	55	40.9	52.2
27-Oct-23	54.8	32.7	51.8
09-Nov-23	54.9	46.4	52.5
28-Nov-23	54.1	43.7	51.5
06-Dec-23	52.3	44.2	49.9
21-Dec-23	53.3	44.7	50.9
04-Jan-24	52.3	44.9	50.0
24-Jan-24	51.4	44.6	49.2
13-Feb-24	54.7	43.8	52.0
20-Feb-24	54.4	43.6	51.7
12-Mar-24	50.7	42.2	48.3
28-Mar-24	54.6	44.3	52.0
Brief Statistic	Day	Night	Leq DN
Minimum	42.6	32.7	41.3
Maximum	66.9	64.6	65.9
Mean	55.7	47.3	53.5

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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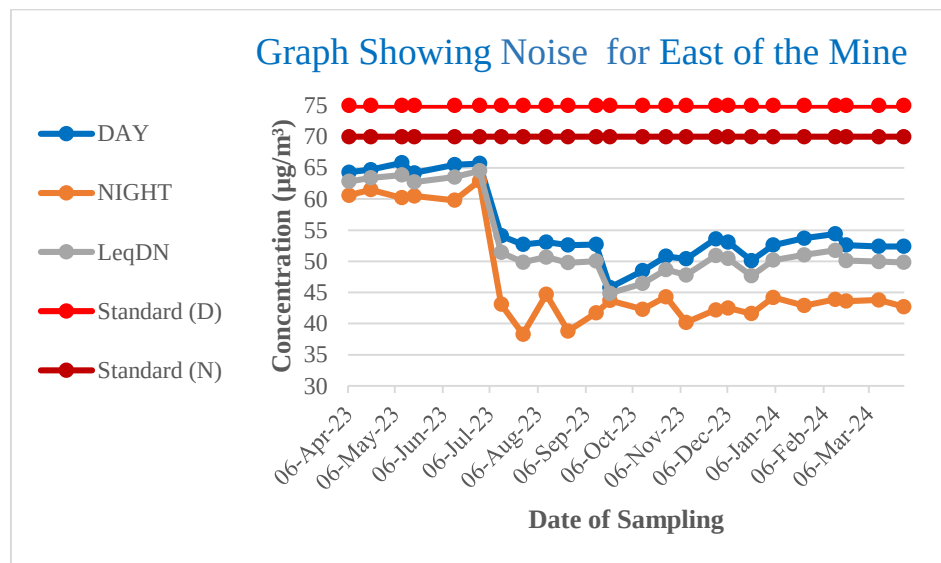
Table: 10.16
Area: Lakhanpur Area
Project: Belpahar OCP
Monitoring Station: East of the Mine

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	64.3	60.6	62.8
20-Apr-23	64.7	61.5	63.4
10-May-23	65.8	60.2	63.8
18-May-23	64.2	60.5	62.7
13-Jun-23	65.5	59.8	63.5
29-Jun-23	65.7	62.9	64.5
13-Jul-23	54.1	43.1	51.4
27-Jul-23	52.7	38.3	49.8
11-Aug-23	53.1	44.7	50.7
25-Aug-23	52.6	38.8	49.8
12-Sep-23	52.7	41.7	50.0
21-Sep-23	45.8	43.7	44.9
12-Oct-23	48.5	42.3	46.4
27-Oct-23	50.8	44.3	48.7
09-Nov-23	50.4	40.2	47.8
28-Nov-23	53.6	42.2	50.9
06-Dec-23	53.1	42.5	50.5
21-Dec-23	50.1	41.6	47.7
04-Jan-24	52.6	44.2	50.2
24-Jan-24	53.7	42.9	51.0
13-Feb-24	54.4	43.9	51.8
20-Feb-24	52.6	43.6	50.1
12-Mar-24	52.4	43.8	50.0
28-Mar-24	52.4	42.7	49.8
Brief Statistic	Day	Night	Leq DN
Minimum	45.8	38.3	44.9
Maximum	65.8	62.9	64.5
Mean	55.2	47.1	53.0

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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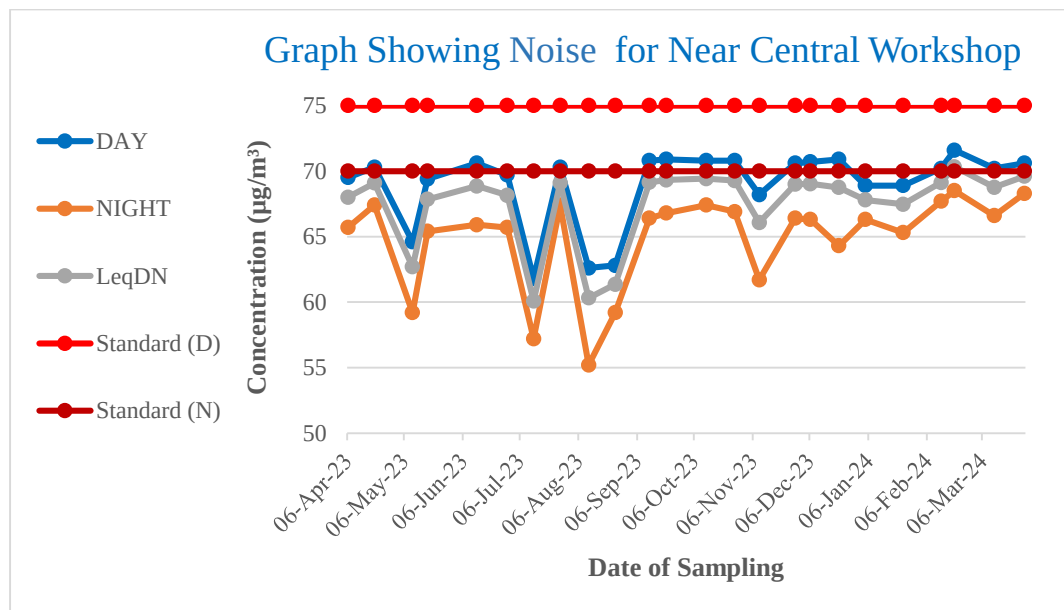
Table: 10.17
Area: Lakhanpur Area
Project: Belpahar OCP
Monitoring Station: Near Central Workshop

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	69.5	65.7	68.0
20-Apr-23	70.3	67.4	69.1
10-May-23	64.6	59.2	62.7
18-May-23	69.4	65.4	67.8
13-Jun-23	70.6	65.9	68.9
29-Jun-23	69.7	65.7	68.1
13-Jul-23	61.8	57.2	60.1
27-Jul-23	70.3	67.4	69.1
11-Aug-23	62.6	55.2	60.3
25-Aug-23	62.8	59.2	61.4
12-Sep-23	70.8	66.4	69.1
21-Sep-23	70.9	66.8	69.3
12-Oct-23	70.8	67.4	69.4
27-Oct-23	70.8	66.9	69.3
09-Nov-23	68.2	61.7	66.1
28-Nov-23	70.6	66.4	69.0
06-Dec-23	70.7	66.3	69.0
21-Dec-23	70.9	64.3	68.7
04-Jan-24	68.9	66.3	67.8
24-Jan-24	68.9	65.3	67.5
13-Feb-24	70.2	67.7	69.1
20-Feb-24	71.6	68.5	70.3
12-Mar-24	70.2	66.6	68.8
28-Mar-24	70.6	68.3	69.6
Brief Statistic	Day	Night	Leq DN
Minimum	61.8	55.2	60.1
Maximum	71.6	68.5	70.3
Mean	69.0	64.9	67.4

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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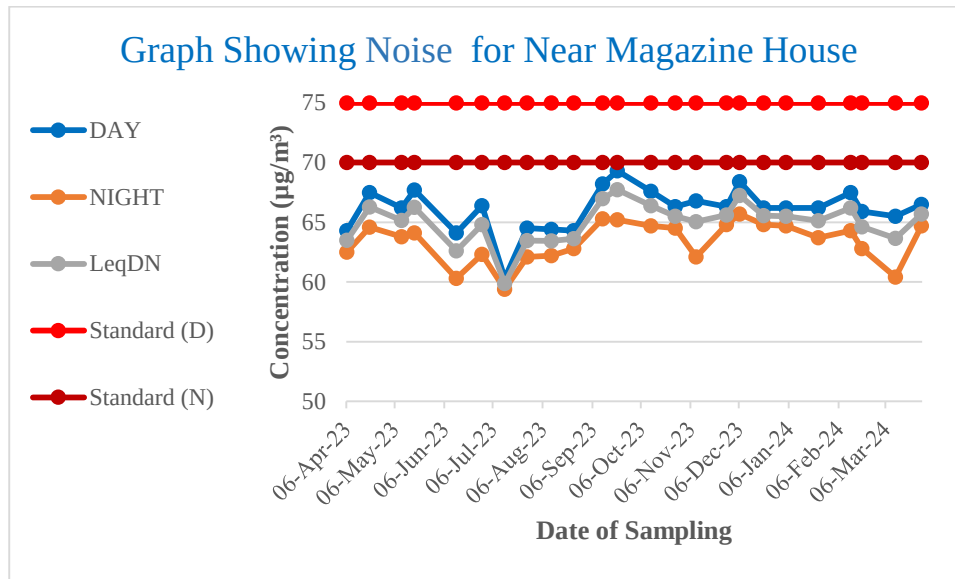
Table: 10.18
Area: Lakhanpur OCP
Project: Belpahar OCP
Monitoring Station: Near Magazine House

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	64.3	62.5	63.5
20-Apr-23	67.5	64.6	66.3
10-May-23	66.2	63.8	65.2
18-May-23	67.7	64.1	66.3
13-Jun-23	64.1	60.3	62.6
29-Jun-23	66.4	62.3	64.8
13-Jul-23	60.3	59.4	59.9
27-Jul-23	64.5	62.1	63.5
11-Aug-23	64.4	62.2	63.4
25-Aug-23	64.3	62.8	63.6
12-Sep-23	68.2	65.3	67.0
21-Sep-23	69.3	65.2	67.7
12-Oct-23	67.6	64.7	66.4
27-Oct-23	66.3	64.5	65.5
09-Nov-23	66.8	62.1	65.1
28-Nov-23	66.3	64.8	65.6
06-Dec-23	68.4	65.7	67.3
21-Dec-23	66.2	64.8	65.6
04-Jan-24	66.2	64.7	65.5
24-Jan-24	66.2	63.7	65.1
13-Feb-24	67.5	64.3	66.2
20-Feb-24	65.9	62.8	64.6
12-Mar-24	65.5	60.4	63.7
28-Mar-24	66.5	64.7	65.7
Brief Statistic	Day	Night	Leq DN
Minimum	60.3	59.4	59.9
Maximum	69.3	65.7	67.7
Mean	66.1	63.4	65.0

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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Table: 10.19
Area: Lakhanpur OCP
Project: Belpahar OCP
Monitoring Station: South of the Mine

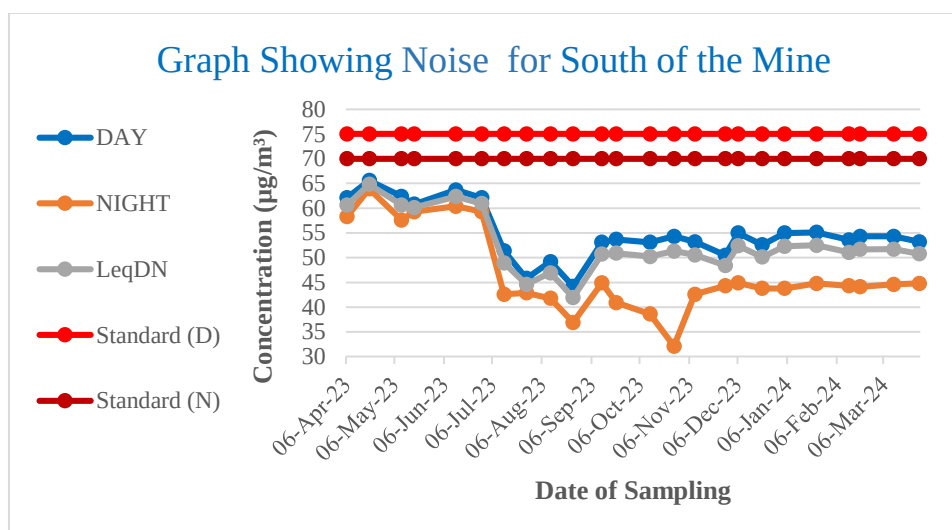
DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	62.1	58.3	60.6
20-Apr-23	65.6	63.9	64.8
10-May-23	62.4	57.6	60.6
18-May-23	60.8	59.3	60.1
13-Jun-23	63.7	60.4	62.4
29-Jun-23	62.1	59.3	60.9
13-Jul-23	51.4	42.6	48.9
27-Jul-23	45.8	42.9	44.6
11-Aug-23	49.2	41.8	46.9
25-Aug-23	44.2	36.9	41.9
12-Sep-23	53.1	44.9	50.7
21-Sep-23	53.7	40.9	50.9
12-Oct-23	53.1	38.6	50.2
27-Oct-23	54.3	32.1	51.3
09-Nov-23	53.2	42.6	50.6
28-Nov-23	50.5	44.3	48.4
06-Dec-23	55	44.9	52.4
21-Dec-23	52.6	43.8	50.1
04-Jan-24	55	43.8	52.3
24-Jan-24	55.1	44.8	52.5
13-Feb-24	53.6	44.3	51.1
20-Feb-24	54.3	44.1	51.7
12-Mar-24	54.3	44.6	51.7
28-Mar-24	53.2	44.8	50.8
Brief Statistic	Day	Night	Leq DN
Minimum	44.2	32.1	41.9
Maximum	65.6	63.9	64.8
Mean	54.9	46.7	52.8

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

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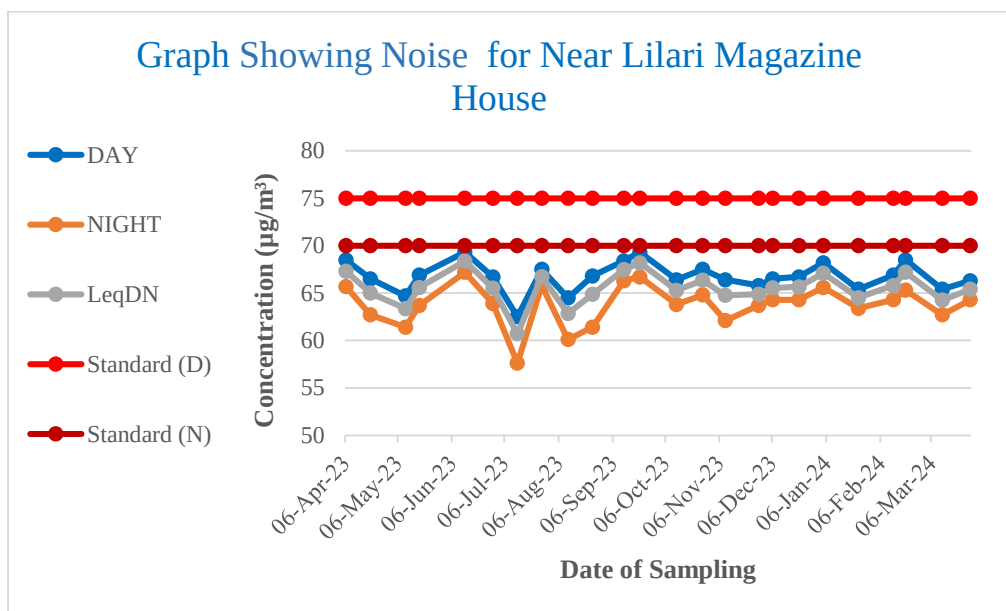
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Table: 10.20

Area: Lakhanpur OCP**Project:** Lilari OCP**Monitoring Station:** Near Lilari Magazine House

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-23	68.5	65.7	67.3
20-Apr-23	66.5	62.7	65.0
10-May-23	64.7	61.4	63.4
18-May-23	66.9	63.7	65.6
13-Jun-23	69.3	67.2	68.4
29-Jun-23	66.7	63.9	65.5
13-Jul-23	62.5	57.6	60.7
27-Jul-23	67.5	65.8	66.7
11-Aug-23	64.5	60.1	62.8
25-Aug-23	66.8	61.4	64.9
12-Sep-23	68.4	66.3	67.5
21-Sep-23	69.3	66.7	68.2
12-Oct-23	66.4	63.8	65.3
27-Oct-23	67.5	64.8	66.4
09-Nov-23	66.4	62.1	64.8
28-Nov-23	65.8	63.7	64.9
06-Dec-23	66.5	64.3	65.5
21-Dec-23	66.7	64.3	65.7
04-Jan-24	68.2	65.6	67.1
24-Jan-24	65.4	63.4	64.5
13-Feb-24	66.9	64.3	65.8
20-Feb-24	68.5	65.3	67.2
12-Mar-24	65.4	62.7	64.3
28-Mar-24	66.3	64.3	65.4
Brief Statistic	Day	Night	Leq DN
Minimum	62.5	57.6	60.7
Maximum	69.3	67.2	68.4
Mean	66.7	63.8	65.5

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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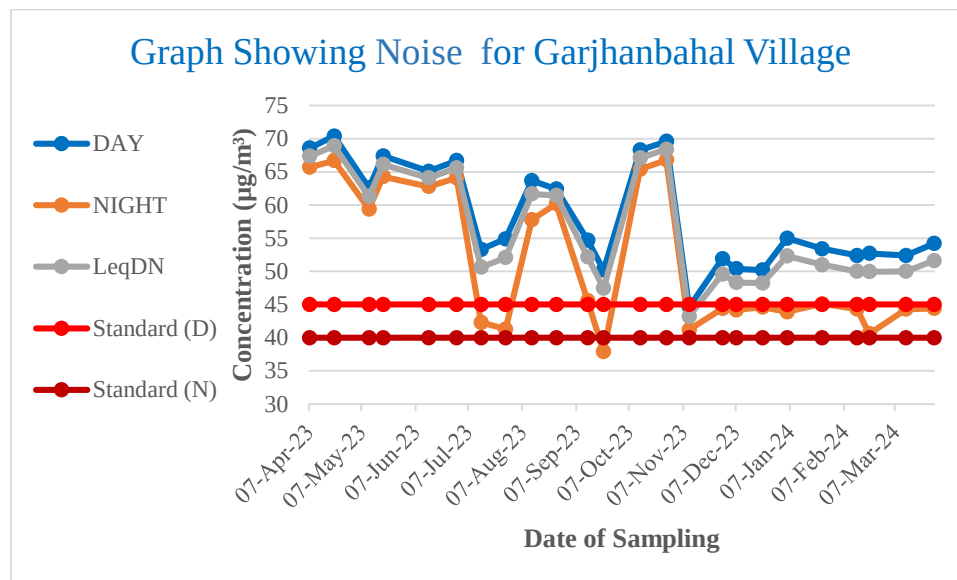
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Table: 10.21
Area: Basundhara OCP
Project: Garjanbahal OCP
Monitoring Station: Garjhanbahal Village

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	68.6	65.7	67.4
21-Apr-23	70.4	66.7	68.9
11-May-23	62.6	59.4	61.3
19-May-23	67.4	64.3	66.1
14-Jun-23	65.1	62.8	64.1
30-Jun-23	66.7	64.1	65.6
14-Jul-23	53.3	42.3	50.6
28-Jul-23	54.9	41.3	52.1
12-Aug-23	63.7	57.8	61.7
26-Aug-23	62.4	60.2	61.4
13-Sep-23	54.7	45.6	52.2
22-Sep-23	50.2	37.9	47.4
13-Oct-23	68.3	65.4	67.1
28-Oct-23	69.6	66.8	68.4
10-Nov-23	44.6	41.2	43.2
29-Nov-23	51.9	44.4	49.6
07-Dec-23	50.4	44.2	48.3
22-Dec-23	50.2	44.6	48.2
05-Jan-24	55	43.9	52.3
25-Jan-24	53.4	45.1	51.0
14-Feb-24	52.4	44.3	50.0
21-Feb-24	52.7	40.6	49.9
13-Mar-24	52.4	44.3	50.0
29-Mar-24	54.2	44.4	51.6
Brief Statistic	Day	Night	Leq DN
Minimum	44.6	37.9	43.2
Maximum	70.4	66.8	68.9
Mean	58.1	51.6	56.2

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

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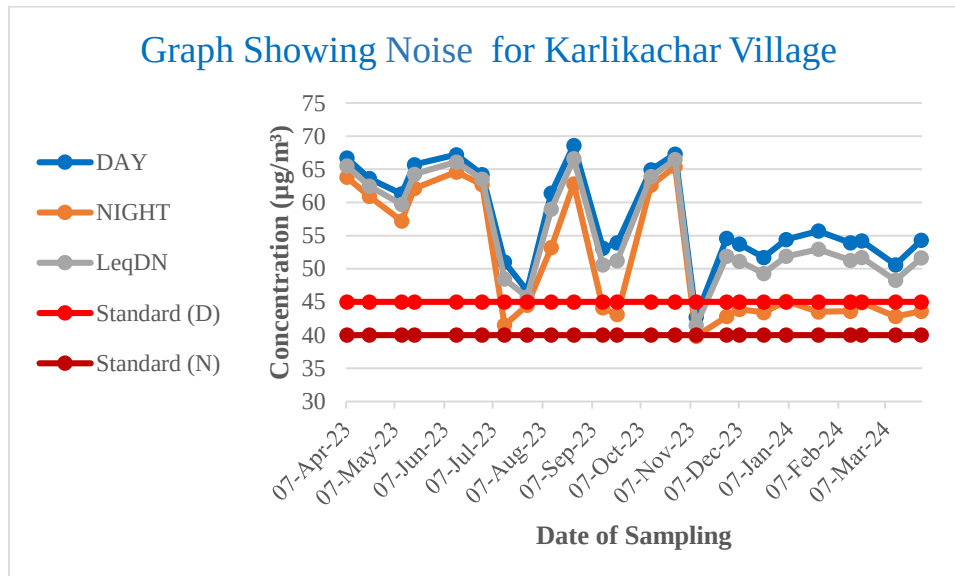
Table: 10.22
Area: Basundhara
Project: Garjanbahal OCP
Monitoring Station: Karlikachar Village

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	66.7	63.8	65.5
21-Apr-23	63.6	60.9	62.5
11-May-23	61.3	57.2	59.7
19-May-23	65.7	62.1	64.3
14-Jun-23	67.2	64.6	66.1
30-Jun-23	64.2	62.7	63.5
14-Jul-23	51	41.5	48.5
28-Jul-23	46.7	44.5	45.7
12-Aug-23	61.4	53.2	59.0
26-Aug-23	68.6	62.8	66.6
13-Sep-23	53.1	44.1	50.6
22-Sep-23	53.9	43.1	51.2
13-Oct-23	64.9	62.6	63.9
28-Oct-23	67.3	65.4	66.5
10-Nov-23	42.7	39.8	41.5
29-Nov-23	54.6	42.8	51.9
07-Dec-23	53.7	43.9	51.1
22-Dec-23	51.7	43.4	49.3
05-Jan-24	54.4	45.1	51.9
25-Jan-24	55.7	43.5	52.9
14-Feb-24	53.9	43.6	51.3
21-Feb-24	54.2	44.9	51.7
13-Mar-24	50.6	42.8	48.3
29-Mar-24	54.3	43.6	51.6
Brief Statistic	Day	Night	Leq DN
Minimum	42.7	39.8	41.5
Maximum	68.6	65.4	66.6
Mean	57.6	50.9	55.6

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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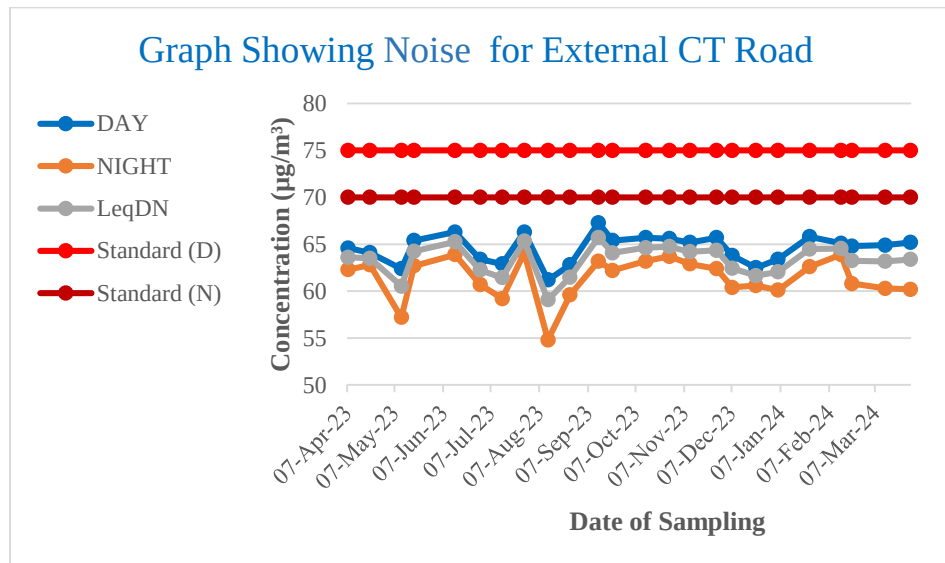
Table: 10.23
Area: Basundhara Area
Project: Kulda OCP
Monitoring Station: External CT Road

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	64.6	62.3	63.6
21-Apr-23	64.1	62.8	63.5
11-May-23	62.4	57.2	60.5
19-May-23	65.4	62.7	64.3
14-Jun-23	66.3	63.9	65.3
30-Jun-23	63.4	60.7	62.3
14-Jul-23	62.9	59.2	61.4
28-Jul-23	66.3	64.1	65.3
12-Aug-23	61.2	54.8	59.1
26-Aug-23	62.8	59.6	61.5
13-Sep-23	67.3	63.2	65.7
22-Sep-23	65.4	62.2	64.1
13-Oct-23	65.7	63.2	64.6
28-Oct-23	65.6	63.7	64.8
10-Nov-23	65.2	62.9	64.2
27-Nov-23	65.7	62.4	64.4
07-Dec-23	63.8	60.4	62.4
22-Dec-23	62.5	60.6	61.7
05-Jan-24	63.4	60.1	62.1
25-Jan-24	65.8	62.6	64.5
14-Feb-24	65.1	63.9	64.5
21-Feb-24	64.8	60.8	63.2
13-Mar-24	64.9	60.3	63.2
29-Mar-24	65.2	60.2	63.4
Brief Statistic	Day	Night	Leq DN
Minimum	61.2	54.8	59.1
Maximum	67.3	64.1	65.7
Mean	64.6	61.4	63.3

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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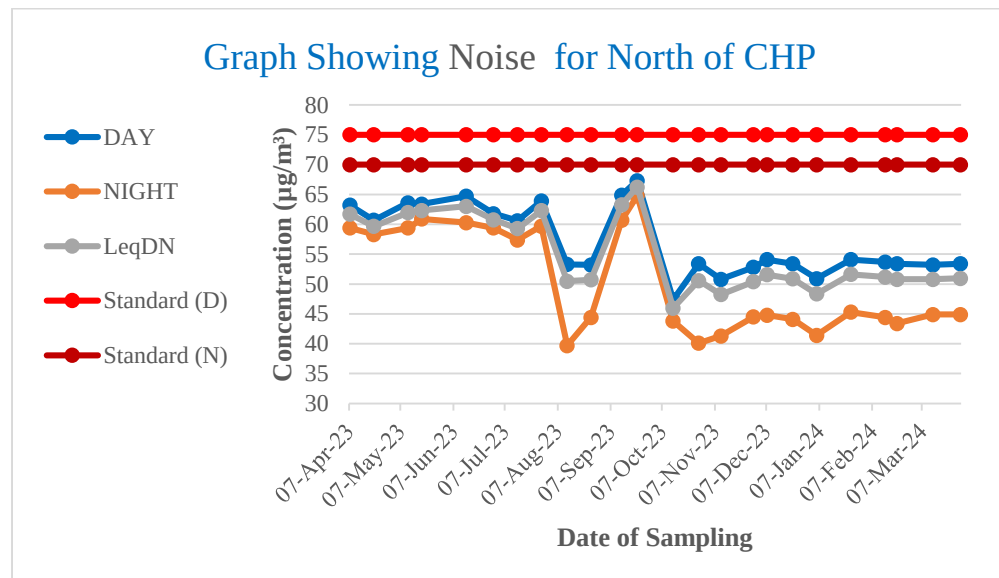
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Table: 10.24
Area: Basundhara OCP
Project: Kulda OCP
Monitoring Station: North of CHP

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	63.2	59.4	61.7
21-Apr-23	60.7	58.3	59.7
11-May-23	63.6	59.4	62.0
19-May-23	63.4	60.9	62.3
14-Jun-23	64.7	60.3	63.0
30-Jun-23	61.8	59.4	60.8
14-Jul-23	60.6	57.4	59.3
28-Jul-23	63.9	59.7	62.3
12-Aug-23	53.3	39.7	50.5
26-Aug-23	53.2	44.4	50.7
13-Sep-23	64.9	60.7	63.3
22-Sep-23	67.3	64.8	66.2
13-Oct-23	47.4	43.8	46.0
28-Oct-23	53.4	40.1	50.6
10-Nov-23	50.8	41.3	48.3
29-Nov-23	52.8	44.5	50.4
07-Dec-23	54.1	44.8	51.6
22-Dec-23	53.4	44.1	50.9
05-Jan-24	50.9	41.4	48.4
25-Jan-24	54.1	45.3	51.6
14-Feb-24	53.7	44.4	51.2
21-Feb-24	53.4	43.4	50.8
13-Mar-24	53.2	44.9	50.8
29-Mar-24	53.4	44.9	51.0
Brief Statistic	Day	Night	Leq DN
Minimum	47.4	39.7	46.0
Maximum	67.3	64.8	66.2
Mean	57.1	50.3	55.1

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



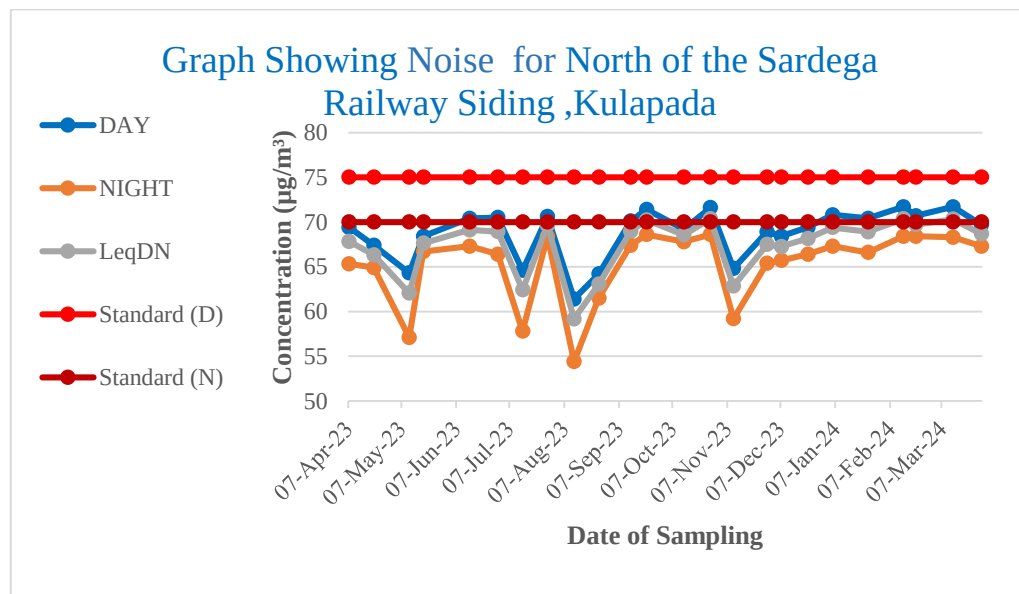
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Table: 10.25

Area: Mahalaxmi**Project:** Basundhara (W) OCP**Monitoring Station:** North of the Sardega Railway Siding ,Kulapada

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	69.4	65.33	67.8
21-Apr-23	67.4	64.9	66.3
11-May-23	64.3	57.1	62.0
19-May-23	68.4	66.7	67.6
14-Jun-23	70.4	67.3	69.1
30-Jun-23	70.5	66.4	68.9
14-Jul-23	64.6	57.8	62.4
28-Jul-23	70.6	68.4	69.6
12-Aug-23	61.4	54.4	59.2
26-Aug-23	64.2	61.5	63.1
13-Sep-23	70.1	67.4	69.0
22-Sep-23	71.4	68.6	70.2
13-Oct-23	69.2	67.8	68.6
28-Oct-23	71.6	68.6	70.4
10-Nov-23	64.8	59.2	62.8
29-Nov-23	68.9	65.4	67.5
07-Dec-23	68.4	65.7	67.3
22-Dec-23	69.4	66.4	68.2
05-Jan-24	70.8	67.3	69.4
25-Jan-24	70.4	66.6	68.9
14-Feb-24	71.7	68.4	70.4
21-Feb-24	70.7	68.4	69.7
13-Mar-24	71.7	68.3	70.3
29-Mar-24	69.7	67.3	68.7
Brief Statistic	Day	Night	Leq DN
Minimum	61.4	54.4	59.2
Maximum	71.7	68.6	70.4
Mean	68.8	65.2	67.4
MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)	
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)	
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)	
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)	



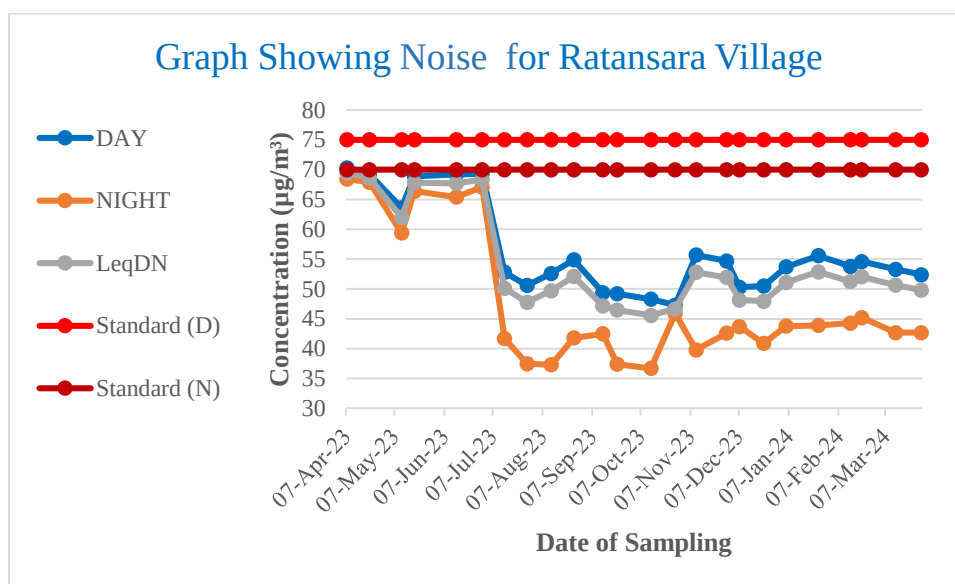
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Table: 10.26
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: Ratansara Village

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	70.3	68.4	69.5
21-Apr-23	69.2	67.9	68.6
11-May-23	63.6	59.4	62.0
19-May-23	68.9	66.4	67.8
14-Jun-23	69.2	65.4	67.7
30-Jun-23	69.3	67.1	68.3
14-Jul-23	52.8	41.7	50.1
28-Jul-23	50.6	37.5	47.8
12-Aug-23	52.6	37.3	49.7
26-Aug-23	54.9	41.8	52.1
13-Sep-23	49.4	42.5	47.2
22-Sep-23	49.2	37.4	46.5
13-Oct-23	48.3	36.7	45.6
28-Oct-23	47.3	45.9	46.7
10-Nov-23	55.7	39.8	52.8
29-Nov-23	54.7	42.6	51.9
07-Dec-23	50.3	43.7	48.1
22-Dec-23	50.5	40.9	47.9
05-Jan-24	53.7	43.8	51.1
25-Jan-24	55.6	43.9	52.9
14-Feb-24	53.8	44.3	51.3
21-Feb-24	54.6	45.2	52.1
13-Mar-24	53.3	42.7	50.7
29-Mar-24	52.4	42.7	49.8
Brief Statistic	Day	Night	Leq DN
Minimum	47.3	36.7	45.6
Maximum	70.3	68.4	69.5
Mean	56.3	47.7	54.1

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



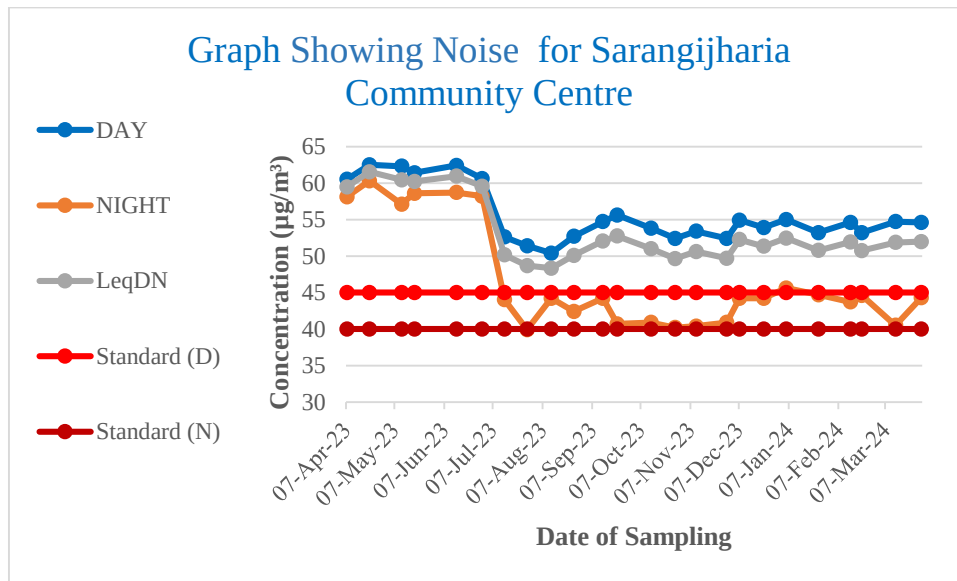
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Table: 10.27
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: Sarangijharia Community Centre

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	60.5	58.1	59.5
21-Apr-23	62.5	60.3	61.5
11-May-23	62.3	57.1	60.4
19-May-23	61.4	58.6	60.2
14-Jun-23	62.4	58.7	60.9
30-Jun-23	60.6	58.2	59.6
14-Jul-23	52.6	44	50.2
28-Jul-23	51.4	39.9	48.7
12-Aug-23	50.4	44.2	48.3
26-Aug-23	52.7	42.4	50.1
13-Sep-23	54.7	44.2	52.1
22-Sep-23	55.6	40.7	52.7
13-Oct-23	53.8	40.9	51.0
28-Oct-23	52.4	40.2	49.6
10-Nov-23	53.4	40.4	50.6
29-Nov-23	52.4	40.9	49.7
07-Dec-23	54.9	44.2	52.2
22-Dec-23	53.9	44.2	51.3
05-Jan-24	55	45.6	52.5
25-Jan-24	53.2	44.7	50.8
14-Feb-24	54.6	43.7	51.9
21-Feb-24	53.2	44.6	50.8
13-Mar-24	54.7	40.5	51.9
29-Mar-24	54.6	44.3	52.0
Brief Statistic	Day	Night	Leq DN
Minimum	50.4	39.9	48.3
Maximum	62.5	60.3	61.5
Mean	55.6	46.7	53.3

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



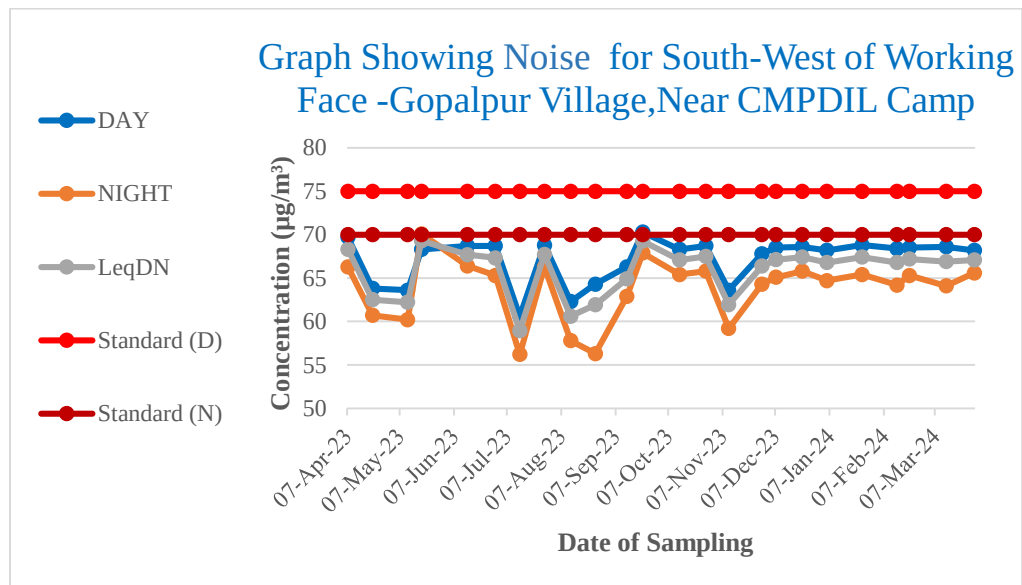
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Table: 10.28
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: South-West of Working Face -Gopalpur
Village,Near CMPDIL Camp

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	69.7	66.3	68.3
21-Apr-23	63.8	60.7	62.5
11-May-23	63.6	60.2	62.2
19-May-23	68.3	70.1	69.3
14-Jun-23	68.7	66.4	67.7
30-Jun-23	68.7	65.3	67.3
14-Jul-23	60.6	56.2	58.9
28-Jul-23	68.8	66.3	67.7
12-Aug-23	62.3	57.8	60.6
26-Aug-23	64.3	56.3	61.9
13-Sep-23	66.3	62.9	64.9
22-Sep-23	70.3	67.9	69.3
13-Oct-23	68.3	65.4	67.1
28-Oct-23	68.7	65.8	67.5
10-Nov-23	63.6	59.2	61.9
29-Nov-23	67.8	64.3	66.4
07-Dec-23	68.5	65.1	67.1
22-Dec-23	68.6	65.8	67.4
05-Jan-24	68.2	64.7	66.8
25-Jan-24	68.8	65.4	67.4
14-Feb-24	68.4	64.2	66.8
21-Feb-24	68.5	65.3	67.2
13-Mar-24	68.6	64.1	66.9
29-Mar-24	68.2	65.6	67.1
Brief Statistic	Day	Night	Leq DN
Minimum	60.6	56.2	58.9
Maximum	70.3	70.1	69.3
Mean	67.2	63.8	65.9

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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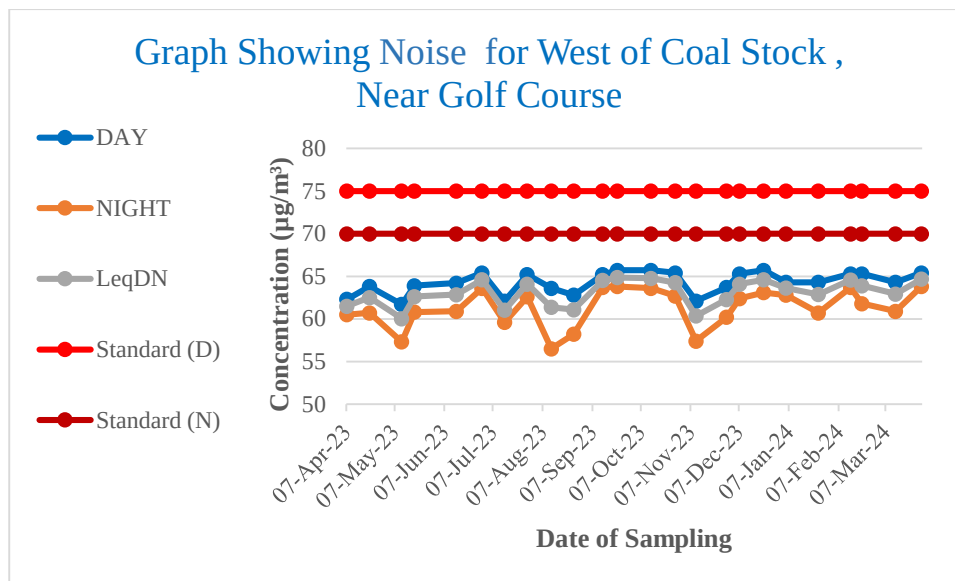
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Table: 10.29
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: West of Coal Stock , Near Golf Course

DATE	DAY	NIGHT	LeqDN(dB)
07-Apr-23	62.3	60.5	61.5
21-Apr-23	63.8	60.7	62.5
11-May-23	61.7	57.3	60.0
19-May-23	63.9	60.8	62.6
14-Jun-23	64.2	60.9	62.9
30-Jun-23	65.4	63.6	64.6
14-Jul-23	62.1	59.6	61.0
28-Jul-23	65.2	62.6	64.1
12-Aug-23	63.6	56.5	61.4
26-Aug-23	62.8	58.2	61.1
13-Sep-23	65.2	63.7	64.5
22-Sep-23	65.7	63.8	64.9
13-Oct-23	65.7	63.6	64.8
28-Oct-23	65.4	62.7	64.3
10-Nov-23	62.1	57.4	60.4
29-Nov-23	63.7	60.2	62.3
07-Dec-23	65.3	62.4	64.1
22-Dec-23	65.7	63.1	64.6
05-Jan-24	64.3	62.8	63.6
25-Jan-24	64.3	60.7	62.9
14-Feb-24	65.3	63.7	64.6
21-Feb-24	65.3	61.8	63.9
13-Mar-24	64.3	60.9	62.9
29-Mar-24	65.4	63.8	64.7
Brief Statistic	Day	Night	Leq DN
Minimum	61.7	56.5	60.0
Maximum	65.7	63.8	64.9
Mean	64.3	61.3	63.1

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

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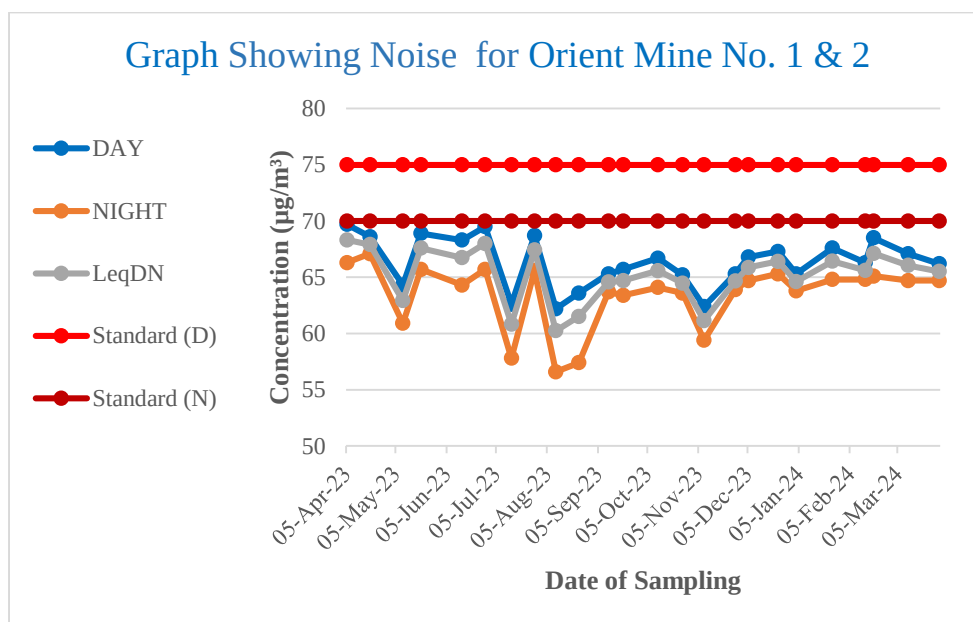
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Table: 10.30

Area: Orient**Project:** Orient Mine No. 1 & 2**Monitoring Station:** Orient Mine No. 1 & 2

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	69.7	66.3	68.3
19-Apr-23	68.6	67.1	67.9
09-May-23	64.3	60.9	62.9
20-May-23	68.9	65.7	67.6
14-Jun-23	68.3	64.3	66.7
28-Jun-23	69.5	65.7	68.0
14-Jul-23	62.6	57.8	60.8
28-Jul-23	68.7	65.6	67.4
10-Aug-23	62.2	56.6	60.2
24-Aug-23	63.6	57.4	61.5
11-Sep-23	65.3	63.7	64.6
20-Sep-23	65.7	63.4	64.7
11-Oct-23	66.7	64.1	65.6
26-Oct-23	65.2	63.6	64.5
08-Nov-23	62.4	59.4	61.2
27-Nov-23	65.3	63.9	64.7
05-Dec-23	66.8	64.7	65.9
23-Dec-23	67.3	65.3	66.4
03-Jan-24	65.3	63.8	64.6
25-Jan-24	67.6	64.8	66.4
14-Feb-24	66.3	64.8	65.6
19-Feb-24	68.5	65.1	67.1
11-Mar-24	67.1	64.7	66.1
30-Mar-24	66.2	64.7	65.5
Brief Statistic	Day	Night	Leq DN
Minimum	62.2	56.6	60.2
Maximum	69.7	67.1	68.3
Mean	66.3	63.5	65.2

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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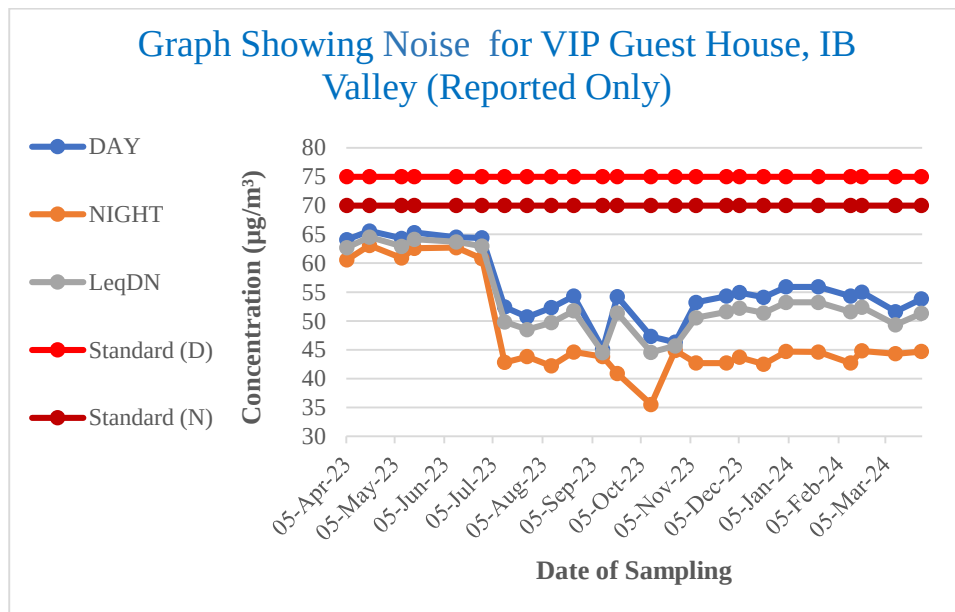
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Table: 10.31

Area: Orient**Project:** Orient Mine No. 1 & 2**Monitoring Station:** VIP Guest House, IB Valley (Reported Only)

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	64.1	60.6	62.7
19-Apr-23	65.6	63.1	64.5
09-May-23	64.3	60.9	62.9
17-May-23	65.3	62.6	64.2
12-Jun-23	64.5	62.7	63.7
28-Jun-23	64.4	60.8	63.0
12-Jul-23	52.4	42.8	49.8
26-Jul-23	50.7	43.8	48.5
10-Aug-23	52.3	42.2	49.7
24-Aug-23	54.3	44.6	51.7
11-Sep-23	45.1	43.8	44.5
20-Sep-23	54.2	40.9	51.4
11-Oct-23	47.3	35.5	44.6
26-Oct-23	46.3	44.9	45.7
08-Nov-23	53.2	42.7	50.6
27-Nov-23	54.3	42.7	51.6
05-Dec-23	54.9	43.7	52.2
20-Dec-23	54.1	42.5	51.4
03-Jan-24	55.9	44.7	53.2
23-Jan-24	55.9	44.6	53.2
12-Feb-24	54.3	42.7	51.6
19-Feb-24	55	44.8	52.4
11-Mar-24	51.6	44.3	49.3
27-Mar-24	53.8	44.7	51.3
Brief Statistic	Day	Night	Leq DN
Minimum	45.1	35.5	44.5
Maximum	65.6	63.1	64.5
Mean	55.6	47.8	53.5

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

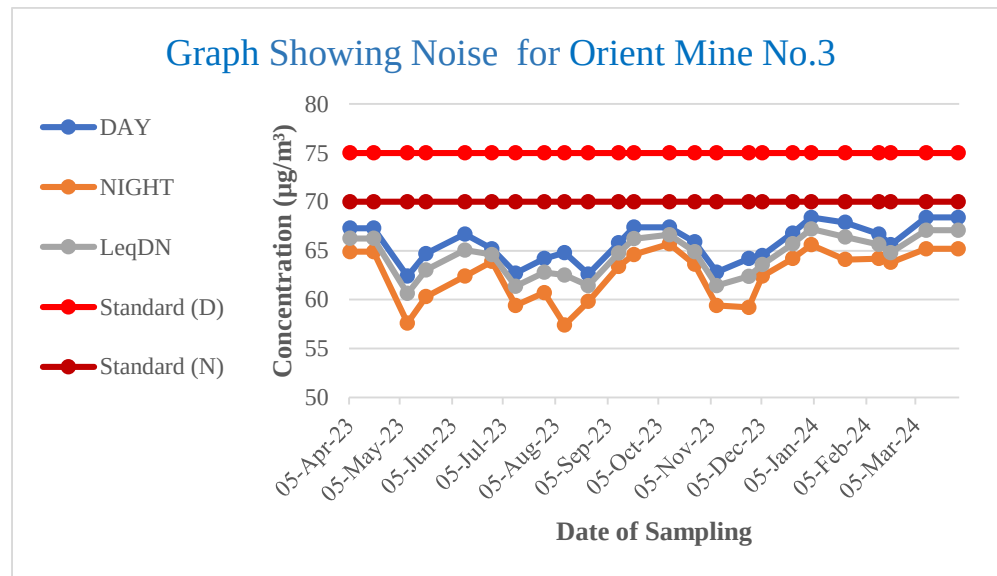


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Table: 10.32
Area: Orient
Project: Orient Mine No.3
Monitoring Station: Orient Mine No.3

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	67.3	64.9	66.3
19-Apr-23	67.3	64.9	66.3
09-May-23	62.4	57.6	60.6
20-May-23	64.7	60.3	63.0
12-Jun-23	66.7	62.4	65.1
28-Jun-23	65.2	63.9	64.6
12-Jul-23	62.7	59.4	61.4
29-Jul-23	64.2	60.7	62.8
10-Aug-23	64.8	57.4	62.5
24-Aug-23	62.6	59.8	61.4
11-Sep-23	65.8	63.4	64.8
20-Sep-23	67.4	64.6	66.2
11-Oct-23	67.4	65.7	66.6
26-Oct-23	65.9	63.6	64.9
08-Nov-23	62.8	59.4	61.4
27-Nov-23	64.2	59.2	62.4
05-Dec-23	64.5	62.4	63.6
23-Dec-23	66.8	64.2	65.7
03-Jan-24	68.4	65.6	67.2
23-Jan-24	67.9	64.1	66.4
12-Feb-24	66.7	64.2	65.6
19-Feb-24	65.6	63.8	64.8
11-Mar-24	68.4	65.2	67.1
30-Mar-24	68.4	65.2	67.1
Brief Statistic	Day	Night	Leq DN
Minimum	62.4	57.4	60.6
Maximum	68.4	65.7	67.2
Mean	65.8	62.6	64.5

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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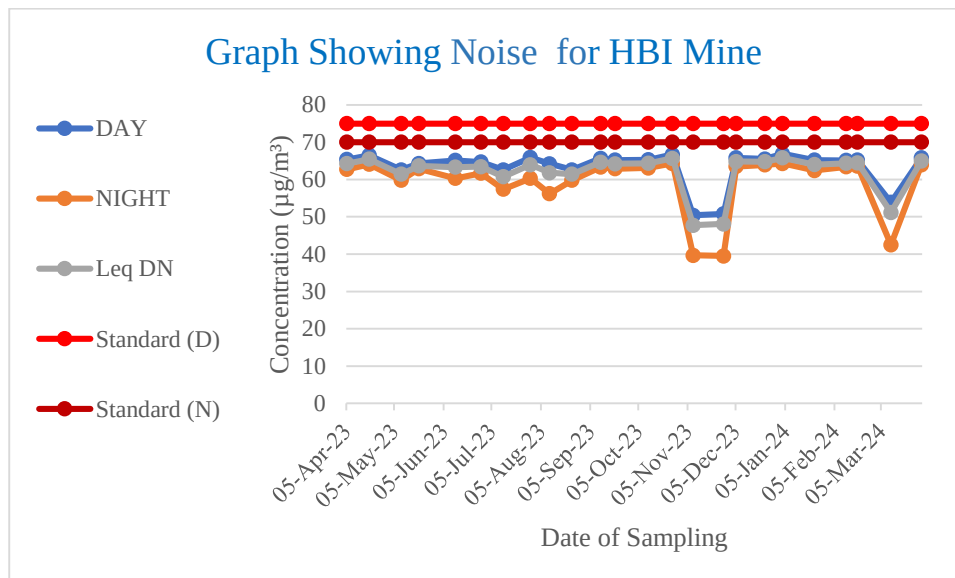
Table: 10.33

Area: Orient**Project:** HBI Mine**Monitoring Station:** Bundia Colony Pump House

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	65.4	62.7	64.3
19-Apr-23	66.5	64.1	65.5
09-May-23	62.6	59.8	61.4
20-May-23	64.3	62.9	63.7
12-Jun-23	65.1	60.3	63.3
28-Jun-23	64.7	61.7	63.5
12-Jul-23	62.6	57.4	60.7
29-Jul-23	65.9	60.3	63.9
10-Aug-23	64.2	56.2	61.8
24-Aug-23	62.6	59.8	61.4
11-Sep-23	65.7	63.3	64.7
20-Sep-23	65.2	62.9	64.2
11-Oct-23	65.3	63.1	64.3
26-Oct-23	66.7	64.3	65.7
08-Nov-23	50.4	39.7	47.7
27-Nov-23	50.8	39.5	48.1
05-Dec-23	65.8	63.5	64.8
23-Dec-23	65.5	63.9	64.8
03-Jan-24	66.9	64.3	65.8
23-Jan-24	65.2	62.4	64.0
12-Feb-24	65.1	63.4	64.3
19-Feb-24	65.2	63.6	64.5
11-Mar-24	53.9	42.5	51.2
30-Mar-24	65.8	63.9	65.0
Brief Statistic	Day	Night	Leq DN
Minimum	50.4	39.5	47.7
Maximum	66.9	64.3	65.8
Mean	63.4	59.4	62.0

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

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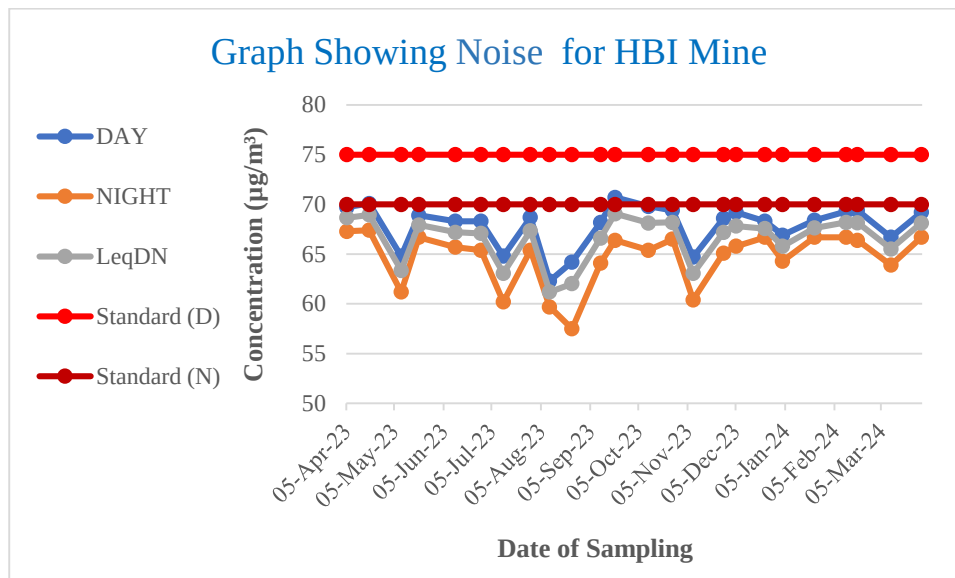


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Table: 10.34
Area: Orient
Project: HBI Mine
Monitoring Station: HBI Mine

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	69.7	67.3	68.7
19-Apr-23	70.1	67.4	69.0
09-May-23	64.8	61.2	63.4
20-May-23	68.9	66.7	67.9
12-Jun-23	68.3	65.7	67.2
28-Jun-23	68.3	65.4	67.1
12-Jul-23	64.8	60.2	63.1
29-Jul-23	68.7	65.4	67.4
10-Aug-23	62.3	59.7	61.2
24-Aug-23	64.2	57.5	62.0
11-Sep-23	68.2	64.1	66.6
20-Sep-23	70.7	66.4	69.1
11-Oct-23	69.8	65.4	68.1
26-Oct-23	69.4	66.5	68.2
08-Nov-23	64.7	60.4	63.1
27-Nov-23	68.6	65.1	67.2
05-Dec-23	69.2	65.8	67.8
23-Dec-23	68.3	66.7	67.6
03-Jan-24	66.9	64.3	65.8
23-Jan-24	68.4	66.7	67.6
12-Feb-24	69.3	66.7	68.2
19-Feb-24	69.4	66.4	68.2
11-Mar-24	66.7	63.9	65.5
30-Mar-24	69.2	66.7	68.1
Brief Statistic	Day	Night	Leq DN
Minimum	62.3	57.5	61.2
Maximum	70.7	67.4	69.1
Mean	67.9	64.7	66.6

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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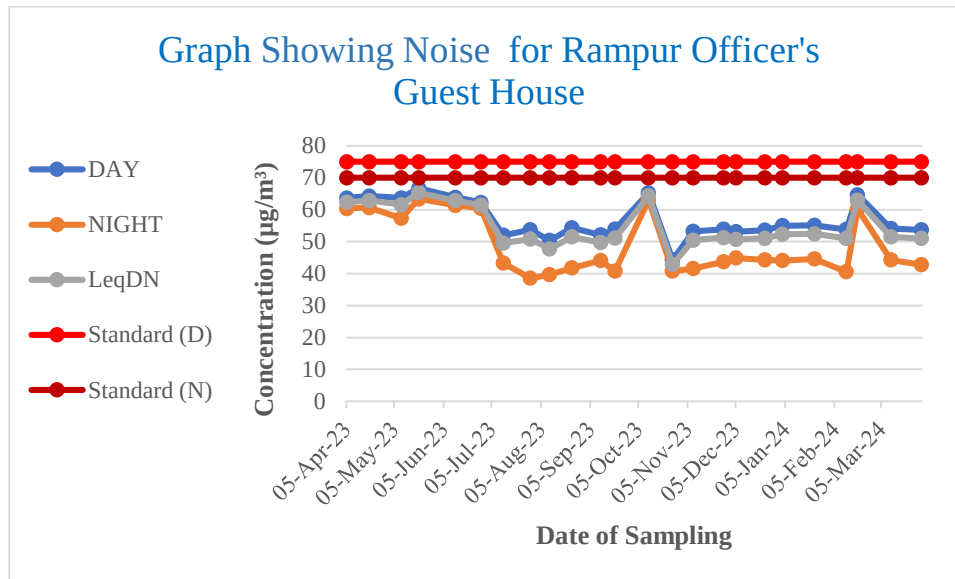
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Table: 10.35

Area: Orient**Project:** HBI Mine**Monitoring Station:** Rampur Officer's Guest House

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	63.7	60.4	62.4
19-Apr-23	64.3	60.7	62.9
09-May-23	63.7	57.3	61.6
20-May-23	66.7	63.4	65.4
12-Jun-23	63.9	61.4	62.8
28-Jun-23	62.3	60.5	61.5
12-Jul-23	52	43.3	49.5
29-Jul-23	53.7	38.6	50.8
10-Aug-23	50.4	39.7	47.7
24-Aug-23	54.3	41.8	51.5
11-Sep-23	52.1	44.1	49.7
20-Sep-23	53.9	40.8	51.1
11-Oct-23	65.3	63.1	64.3
26-Oct-23	44.3	40.8	42.9
08-Nov-23	53.2	41.6	50.5
27-Nov-23	53.9	43.7	51.3
05-Dec-23	53.1	44.9	50.7
23-Dec-23	53.6	44.3	51.1
03-Jan-24	55	44.1	52.3
23-Jan-24	55.1	44.6	52.5
12-Feb-24	53.8	40.6	51.0
19-Feb-24	64.7	60.2	63.0
11-Mar-24	54.1	44.3	51.5
30-Mar-24	53.7	42.8	51.0
Brief Statistic	Day	Night	Leq DN
Minimum	44.3	38.6	42.9
Maximum	66.7	63.4	65.4
Mean	56.8	48.9	54.7

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)



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Table: 10.36
Area: Orient
Project: Orient Mine No.4
Monitoring Station: Orient Mine No.4

DATE	DAY	NIGHT	LeqDN(dB)
05-Apr-23	68.4	66.7	67.6
19-Apr-23	69.4	67.5	68.6
09-May-23	64.3	61.2	63.0
20-May-23	65.1	63.7	64.5
12-Jun-23	69.3	65.7	67.9
28-Jun-23	65.9	62.4	64.5
12-Jul-23	62.8	57.3	60.9
29-Jul-23	65.4	63.1	64.4
10-Aug-23	62.1	59.4	61.0
24-Aug-23	62.2	56.2	60.2
11-Sep-23	62.5	59.8	61.4
20-Sep-23	68.3	65.7	67.2
11-Oct-23	67.9	65.3	66.8
26-Oct-23	66.8	63.7	65.5
08-Nov-23	63.4	58.8	61.7
27-Nov-23	65.7	62.3	64.3
05-Dec-23	66.4	63.2	65.1
23-Dec-23	67.8	64.4	66.4
03-Jan-24	68.3	64.7	66.9
23-Jan-24	67.5	64.8	66.4
12-Feb-24	67.5	64.3	66.2
19-Feb-24	67.5	64.8	66.4
11-Mar-24	67.6	64.2	66.2
30-Mar-24	65.4	63.7	64.6
Brief Statistic	Day	Night	Leq DN
Minimum	62.1	56.2	60.2
Maximum	69.4	67.5	68.6
Mean	66.2	63.0	64.9

MoEF Standard Notification dated 25 th September, 2000	6.00 AM -10.00 PM Leq 75 dB(A) (Industrial)	10.00 PM -6.00 AM Leq 70 dB(A) (Industrial)
	6.00 AM -10.00 PM Leq 55 dB(A) (Residential)	10.00 PM -6.00 AM Leq 45dB(A) (Residential)
	6.00 AM -10.00 PM Leq 65 dB(A) (Commercial)	10.00 PM -6.00 AM Leq 55 dB(A) (Commercial)
	6.00 AM -10.00 PM Leq 50 dB(A) (Silence Zone)	10.00 PM -6.00 AM Leq 40 dB(A) (Silence Zone)

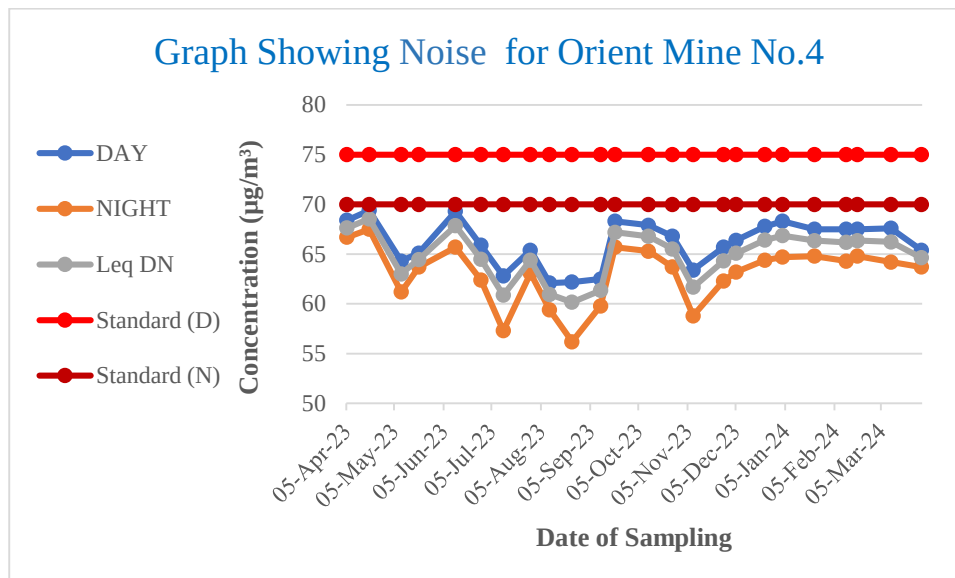


Fig. 8 showing Noise Meter measuring noise

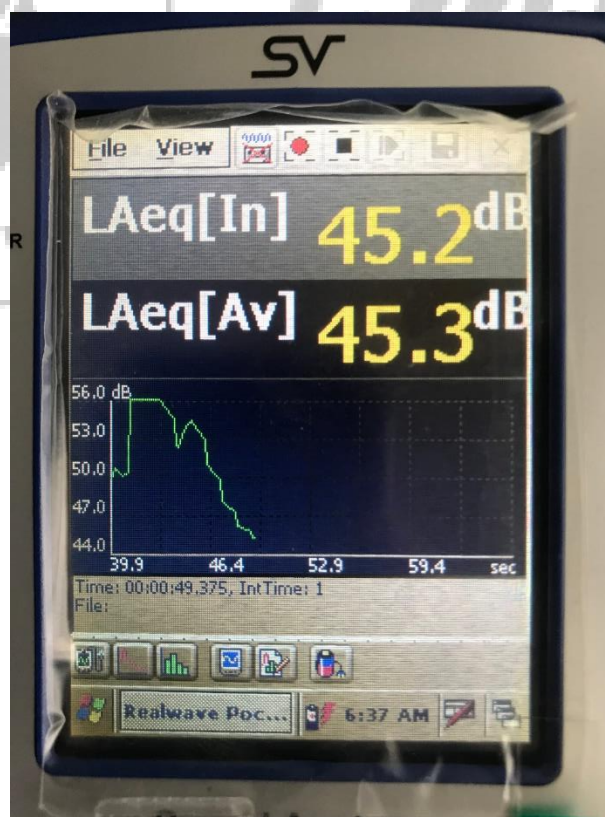




Fig. 9 showing Noise Meter at a station