

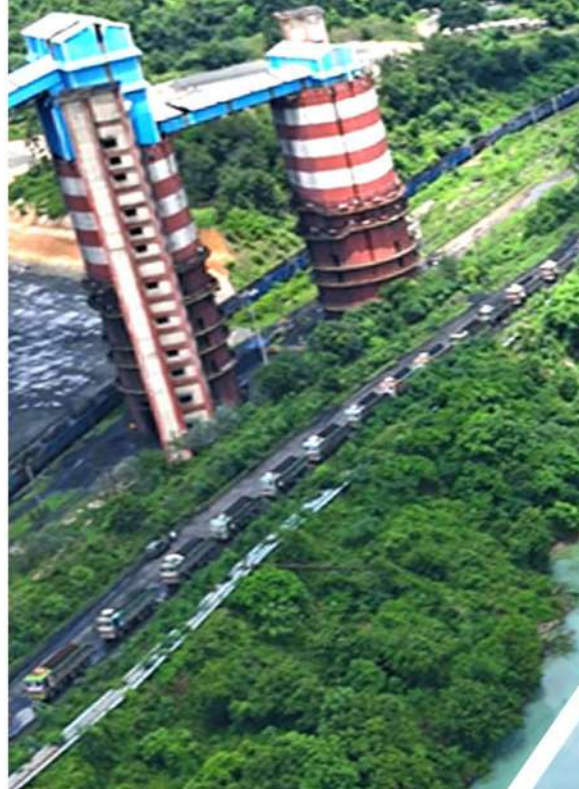


कोयला मंत्रालय
MINISTRY OF
COAL



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A Mini Ratna Company

ANNUAL REPORT OF
ROUTINE ENVIRONMENTAL MONITORING
OF
TALCHER 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	Talcher Coalfield
	STUDY PERIOD	Apr'2023-Mar'2024
	REPORT DATE	July 2024
	CONSULTANT	CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.
	REVIEWED BY	U. K.Mohanty, (HoD, REC Lab), B.G.Ray (Manager), Subhashree Pattanaik (Manager), Saswati Samantaray (Dy. Manager)
	PREPARED BY	Simma Aditya Prasad (Deputy Manager), Shalinie Kumar (Deputy Manager), Keshav Ch. Roy (Clerk), Dharamvir Kumar Bharati (SA)

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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 Talcher 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 Area Environment Officers and Project Environment Officers of all areas of MCL for the support and 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 Talcher 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 & interpretation of data:

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 CaCO ₃)	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 CaCO ₃)	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 ₂ 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

SINo.	Project (OCP/UG)	Name of Air Monitoring Station	Type of Station	Latitude			Longitude		
				DD	MM	SS.SS	DD	MM	SS.SS
1	Jagannath	Central Nursery (Reported Only)	Compliance Station						
2		Near NBVL Station	Compliance Station	20	56	11.58	85	8	42.30
3		Near MDTP	Compliance Station	20	56	46.86	85	9	19.26
4		CWS Colony, MEETI	Reference Station	20	55	5.00	85	8	28.97
5	Ananta	Central Nursery	Compliance Station	20	56	15.39	85	10	7.69
6		Near NBVL Station (Reported Only)	Compliance Station						
7		North East of Mine	Compliance Station	20	59	9.24	85	8	50.64
8		Guthasahi Village	Reference Station	20	59	2.51	85	5	40.55
9	Bharatpur	Near ETP/Workshop	Compliance Station	20	56	38.91	85	6	28.93
10		North-West Point of the Mine	Compliance Station	20	57	52.96	85	5	57.59
11		Near MGR-RLS of Bharatpur	Compliance Station	20	54	59.97	85	6	51.53
12		Near Regional Store	Compliance Station	20	56	19.04	85	7	52.88
13		Natedi Village (Reported only)	Reference Station						
14		Near Joragadia Village	Reference Station	20	59	30.23	85	6	14.42
15	Lingaraj	Near OB Dump no. 5 (South Side of the Mine)	Compliance Station	20	56	55.09	85	11	21.13
16		Near OB Dump no. 10 (North Side of the Mine)	Compliance Station	20	58	5.46	85	11	48.53
17		IWSS	Compliance Station	20	57	20.86	85	12	36.26
18		Near Lingaraj to Dera Road	Compliance Station	20	56	56.62	85	10	39.15
19		Near Kankili Community Centre	Reference Station	20	57	43.91	85	14	8.90
20	Kaniha	Near Project Office	Compliance Station	21	4	46.38	85	3	37.38
21		New Time Office (Near Z-Patch)	Compliance Station	21	4	57.27	85	2	45.30
22		Old Site Office	Compliance Station	21	5	9.32	85	2	25.57
23		Near Jatra Padia, Jarada	Compliance Station	21	4	12.40	85	2	45.00
24		Near External OB Dump, Jamania	Compliance Station	21	4	21.81	85	1	51.38
25		North of the Mine	Compliance Station	21	5	18.35	85	3	42.36
26		South of Proposed Quarry Limit of KOCP	Reference Station	21	3	12.65	85	2	54.15
27		South West of the Mine	Reference Station	21	3	20.10	85	0	34.84

28	Hingula	Time Office	Compliance Station	20	57	29.20	85	1.00	31.22
29		South West Side of the Mine	Compliance Station	20	57	14.80	85	0	52.45
30		North of the Mine, Purnapani, Kumunda Village	Reference Station	20	57	58.22	85	1	0.07
31		North East of the Mine, Solada Village	Reference Station	20	58	23.29	85	4	45.53
32	Balram	Near Project Office	Compliance Station	20	56	53.44	85	6	8.88
33		Pump House near Outsourcing Working Patch	Compliance Station	20	57	28.75	85	5	16.54
34		North West of the Mine, Solada Village (Reported only)	Reference Station						
35		East of the Mine, Natedi Village	Reference Station	20	55	21.77	85	5	58.64
36	Talcher	Natada Village	Reference Station	20	56	4.59	83	3	59.15
37		Near Canteen Talcher Colliery	Compliance Station	20	57	0.00	85	10	31.40
38		Officer Club, Talcher Area	Compliance Station	20	56	47.60	85	10	27.80
39		Project Office	Compliance Station	20	55	40.10	85	7	22.00
40	Nandira	Sub-station	Compliance Station	20	55	43.60	85	7	27.50
41		Near Natedi Village (Reported Only)	Reference Station						
42		Nandira Colony	Reference Station	20	55	25.47	85	7	38.58
43		IWSS (Reported Only)	Compliance Station						
44	Handhidhua Colliery	Manager's Office	Compliance Station	20	56	25.50	85	11	34.20
45	Mandapal Sand Mine	Near Mandapal Chowk	Reference Station	20	56	42.60	85	14	28.90
46		Near Pachismeshwar Temple	Reference Station	20	55	44.80	85	14	26.90

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: Description of Water Sampling stations for monitoring in Apr'23 to Mar'24

Sl. No.	Project (OCP/UG)	Name of Ground /Drinking Water station	Latitude			Longitude		
			DD	MM	SS.SS	DD	MM	SS.SS
1	Jagannath	Balanda Colony Tap Water	20	55	44.15	85	9	22.54
2		Jagannath Colony Tap Water	20	55	29.17	85	8	42.71
3		Rakas Village Well	20	58	11.29	85	7	19.58
4	Ananta	Ananta Colony Tap Water	20	56	14.11	85	10	57.29
5		Dera Village Tube Well Water	20	56	53.54	85	9	48.51
6	Bharatpur	Water in Nehru Shatabdi Nagar A Type Quarters	20	55	26.72	85	8	25.28
7		Water in Nehru Shatabdi Nagar B Type Quarters	20	55	26.72	85	8	25.28
8		Water in Nehru Shatabdi Nagar C Type Quarters	20	55	26.72	85	8	25.28
9		Water in Nehru Shatabdi Nagar Transit House	20	55	55.26	85	10	22.23
10		Taleipasi Village Open Well	20	58	49.09	85	5	21.89
11		Time Office, BOCP	20	56	49.31	85	7	29.92
12		Joragadia Village Open Well	20	59	30.23	85	6	14.42
13	Lingaraj	G.M. Office, Lingaraj Area Tap water	20	57	27.86	85	12	44.61

14		Balunga Khamar village well	20	58	15.57	85	12	1.57
15		Deulbera village well	20	56	47.42	85	12	31.82
16		Talabera village well	20	58	22.36	85	12	28.17
17		Kankili Village Well	20	57	43.91	85	14	8.90
18	Kaniha	Telisinga Well Water	21	4	33.82	85	4	3.36
19	Kaniha	Jarda Village Well Water	21	4	12.40	85	2	45.99
20		Time Office Water	20	57	28.95	85	1	30.35
21	Hingula	Gopalprasad Village Bore Well Water	20	58	21.08	85	2	25.91
22	Hingula	Kumunda Village Bore Well Water	20	58	34.58	85	0	10.58
23		Danara Village Borewell Water	20	56	37.06	85	6	12.97
24	Balram	Balaram Colony Tap Water	20	54	38.05	85	7	10.63
25	Balram	Nakeipasi Village Bore Well Water	20	57	53.05	85	5	56.91
26	Talcher Colliery	Canteen Tap-Water, GM Office	20	56	47.81	85	10	33.53
27	Talcher Colliery	Canteen Tap-Water, Talcher Colliery	20	57	0.96	85	10	30.12
28	Nandira Colliery	Canteen Tap-Water	20	55	39.94	85	7	21.80
29	Nandira Colliery	Pit Top Tap Water	20	55	39.73	85	7	31.30
30	Deulbera colliery	Deulbera Manager Office Tap Water	20	57	5.09	85	12	18.10
31	Handhidhua colliery	Pit Top Tap Water	20	56	25.50	85	11	34.20

Effluent Water 4 Parameters (pH, TSS, COD and O&G)			Latitude			Longitude		
Sl. No.	Project (OCP/UG)	Name of Stations for monitoring Effluent Water	DD	MM	SS.SS	DD	MM	SS.SS
1	Jagannath	O & G Trap Inlet	20	56	36.69	85	8	46.34
2		O & G Trap Outlet	20	56	36.69	85	8	46.34
3		Near MDTP	20	56	44.79	85	9	34.12
4		Face Sump	20	58	7.19	85	7	30.66
5	Ananta	O & G Trap Inlet	20	57	13.44	85	9	12.11
6		O & G Trap Outlet	20	57	13.44	85	9	12.11
7	Bharatpur	Workshop Inlet	20	56	41.57	85	6	25.85
8		Workshop ETP Clear Water Tank	20	56	41.57	85	6	25.85
9	Lingaraj	Inlet of Workshop ETP (During May)	20	57	40.34	85	12	42.46
10		Filter outlet of Workshop ETP (Fortnightly once)	20	57	40.34	85	12	42.46
11		Inlet of ETP near Dumpter Parking (During May)	20	57	40.34	85	12	42.46
12		Clear Water Reservoir of ETP near Dumper Parking (Fortnightly once)	20	57	40.34	85	12	42.46
13		Inlet of MDTP near Stock No. 17 (During August)	20	57	41.21	85	12	41.42
14		Clear Water Reservoir of MDTP near Stock No. 17 (During August)	20	57	41.21	85	12	41.42
15		Inlet of Sedimentation Pond Complex near Lingaraj Siding (During November)	20	57	41.21	85	12	41.42
16		Clear water Tank of Sedimentation Pond Complex near Lingaraj Siding (During November)	20	57	41.21	85	12	41.42
17		Inlet of sedimentation pond complex near Project office (During November)	20	57	41.21	85	12	41.42
18		Clear water reservoir of sedimentation pond complex near Project office (During November)	20	57	41.21	85	12	41.42

19		Inlet of Sedimentation Pond Complex near Deulbera Siding (During February)	20	57	41.21	85	12	41.42
20		Clear water Tank of Sedimentation Pond Complex near Deulbera Siding (During February)	20	57	41.21	85	12	41.42
21	Kaniha	Pre Sedimentation Pond	21	4	37.44	85	3	49.23
22		Clear Water Pond (Inflow)	21	4	37.44	85	3	49.23
23		Kansamunda Sump (Inflow)	21	4	37.44	85	3	49.23
24		Z-Patch Sump	21	4	20.73	85	2	36.76
25	Hingula	Inlet of O & G Trap	20	57	32.17	85	1	25.48
26		Outlet of O & G Trap	20	57	32.17	85	1	25.48
27		Mine Sump Water	20	57	38.91	85	1	22.20
28	Balram	Inlet of O & G Trap	20	57	2.43	85	6	0.88
29		Outlet of O & G Trap	20	57	2.43	85	6	0.88
30		Mine Sump Water	20	57	9.75	85	5	55.61
31	Talcher	Talcher Colliery Sedimentation Tank Discharge	20	57	0.83	85	10	30.30
32	Nandira	Nandira Colliery Sedimentation Tank Discharge	20	55	39.65	85	7	31.28
33	Deulbera Colliery	Deulbera Colliery Mine Discharge at Pit Top	20	57	1.83	85	12	21.46
34		Ranipark Submersible Pump	20	57	14.70	85	13	27.46
35	Handhidhua Colliery	Handhidhua Colliery Mine Discharge	20	56	25.18	85	11	34.87
36		19X Cut Road Bore Hole Point	20	57	2.8	85	11	23.9

Effluent Water 4P (pH, BOD, MPN and TSS)			Latitude			Longitude		
Sl. No.	Project (OCP/UG)	Name of Stations for monitoring Effluent Water	DD	MM	SS.SS	DD	MM	SS.SS
1	Jagannath	STP Inlet	20	55	22.70	85	8	58.27
2		STP Outlet	20	55	22.70	85	8	58.27
3	Ananta	STP Intlet	20	56	19.01	85	10	40.19
4		STP Outlet	20	56	19.01	85	10	40.19
5	Bharatpur	STP Intlet	20	55	22.35	85	8	24.88
6		STP Outlet	20	55	22.35	85	8	24.88
7	Lingaraj	STP Intlet	20	56	53.6	85	11	42.6
8		STP Outlet	20	56	53.6	85	11	42.6
9	Balaram	STP Outlet of Balram Colony	20	54	35.71	85	7	6.30

Effluent Water 1P (pH)			Latitude			Longitude		
Sl. No.	Project (OCP/UG)	Name of Stations for monitoring Effluent Water	DD	MM	SS.SS	DD	MM	SS.SS
1	Bharatpur	Mine Sump Water - Main Sump	20	57	4.88	85	6	47.59
2		Mine Sump Water - Old Quarry Sump	20	56	41.59	85	6	42.63
3	Lingaraj	Mine Sump Water	20	57	49.94	85	10	19.84

Sl. No	Project (OCP/UG)	Piezometer No.	Latitude			Longitude			Location
			DD	MM	SS.SS	DD	MM	SS.SS	
1	Jagannath	MTP 04	20	56	13	85	10	10	Central nursery
2		JNC 01	20	55	41	85	9	34	
3	Ananta	MTP 05	20	57	5	85	9	13	Ananta OCP canteen
4	Bharatpur	MTP 09	20	56	59	85	7	20	Joragarhia Panchayat high school

5		MTP 10	20	56	47	85	5	38	Inside the premises of Danara high school
6	Lingaraj	MTP 01	20	56	42	85	14	27	Mandapal hospital
7		MTP 04	20	56	13	85	10	10	Central nursery
8	Kaniha	MTP 18	21	2	56	85	2	54	Chellia Prathamiki school
9		MTP 19	21	4	49	85	5	12	Outside Golaghar sahi primary school, Bijigol
10		MTP 20	21	5	10	85	2	54	Kansamunda village old site office
11	Hingula	MTP 14	20	59	42	84	56	38	Inside the premises of Pirakhamam village primary
12		MTP 15	20	57	48	84	59	30	Beside Sujan Pradhan's house in Chottaberani village, near nalla
13		MTP 16	20	58	1	85	2	43	Backside of Hingula Mandir VIP guest house
14	Balram	MPT 10	20	56	47	85	5	38	Inside the premises of Danara high school
15		MTP 12	20	55	56	85	4	6	Betianalli village
16		MTP 13	20	57	9	85	3	33	Inside the premises of Ambapal Natarha high school
17		MTP 17	20	57	41	85	5	10	Inside the premises of market building (through gramin rojgar yojna) andhaberani village
18	Talcher Colliery	MTP 04	20	56	13	85	10	10	Central nursery
19		MTP 05	20	57	5	85	9	13	Ananta OCP canteen
20	Nandira Colliery	MTP 10	20	56	47	85	5	38	Inside the premises of Danara high school
21		MTP 11	20	55	27	85	7	34	Hingula area office
22	Deulbera	MTP 01	20	56	47	85	5	38	Inside the premises of Danara high school
23		MTP 04	20	56	13	85	10	10	Central nursery
24	Handhidhua Colliery	MTP 01	20	56	47	85	5	38	Inside the premises of Danara high school
25		MTP 04	20	56	13	85	10	10	Central nursery

Sl.No.	Project/OCP	Name of Station for monitoring Surface Water	Latitude			Longitude		
			DD	MM	SS.SS	DD	MM	SS.SS
1	Jagannath	Bangaru Jhor river near Joragarhia as downstream water point of Bharatpur OCP (Upstream for Jagannath) (Reported)	20	58	38.40	85	7	0.58
2		Downstream of Bangaru Jhor nalla	20	58	57.80	85	8	46.28
3		Upstream of Brahmani River where Bangaru Water meets	20	58	55.37	85	7	9.07
4		Downstream of Brahmani River where Bangaru Water meets	20	59	0.72	85	7	39.82
5		East Sump	20	57	11.25	85	7	50.72
6		Central Sump	20	57	24.22	85	7	59.64
7	Bharatpur	Bangaru Jhor river near Joragadia as downstream water point of Bharatpur OCP	20	58	38.40	85	7	0.58
8		Bangaru Jhor river near up stream water point of Bharatpur OCP	20	58	17.25	85	5	52.00
9		Pond near N-W point of the mine	20	57	47.54	85	6	1.98
10		Jambubahali Village pond	20	56	35.07	85	6	46.55
11	Lingaraj	Village Pond near Deulbera Siding	20	56	58.17	85	11	41.73
12	Kaniha	Singada jhor stream nearer to Village Khairnali as u/s Water for Kaniha OCP	21	3	44.63	85	5	46.57
13		Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP	21	3	49.90	85	6	8.75
14		Tikra Nadi Near Kaniah Village as u/s Water for Kaniah OCP	21	5	52.21	85	3	4.96

15		Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniah OCP	21	6	20.23	85	3	50.53
16	Hingula	Singadhajhor stream near Kumunda Village	20	58	33.11	85	1	46.08
17		Singadhajhor stream near Baghabasapur Village	20	58	31.37	85	1	56.12
18		Pond water of Kankarei village	20	57	1.75	85	0	17.48
19		Mine Sump Water	20	57	38.91	85	1	22.20
20	Balaram	Derjenga reservoir as a part of Impact Study	20	49	24.92	85	3	31.27
21		Pond water of Ambapal village	20	56	26.12	85	3	13.61
22	Talcher	Pond Water of Dera Village	20	57	2.73	85	10	9.85
23	Nandira	Jambubahali Village Pond	20	56	35.07	85	6	46.55
24	Deulbera	Pond Water of Gopinathpur Village	20	56	12.44	85	14	19.69
25	Mandapal Sand Mine	Upstream - At 200 m before leasehold area	20	56	48.69	85	14	31.10
26		Downstream - At 200 m after leasehold area	20	56	1.39	85	14	28.32

Sl. No.	OCP/UG MINE	Name of Station for monitoring Well Water	Latitude			Longitude		
			DD	MM	SS.SS	DD	MM	SS.SS
1	Jagannath	Rakas Village Well	20	58	11.29	85	7	19.58
2		Dera Village Well (Reported)	20	56	58.14	85	10	15.99
3		Deulbera Village well (Reported)	20	56	55.40	85	12	31.83
4	Ananta	Dera Village Well	20	56	58.14	85	10	15.99
5	Bharatpur	Danara Village Well (Reported)	20	56	36.66	85	6	12.98
6		Taleipasi Village Open Well	20	58	49.09	85	5	21.89
7	Lingaraj	Balunga Khamar village well	20	58	15.33	85	12	1.61
8		Deulbera village well	20	56	55.40	85	12	31.83
9		Talabera village well	20	58	22.62	85	12	18.57
10		Kankili Village Well	20	57	43.91	85	14	8.90
11	Hingula	Gopal Prasad Village Well	20	58	21.08	85	2	25.91
12		Kusumpal Village Well	20	57	28.15	85	11	22.65
13	Balram	Danara Village Well	20	56	36.66	85	6	12.98
14		Nakeipasi Village Well	20	58	13.48	85	10	11.70
15	Talcher Colliery	Dera Village Well (Reported)	20	56	58.14	85	10	15.99
16	Nandira Colliery	Natedi Village Well	20	55	24.41	85	5	54.90
17	Deulbera Colliery	Deulbera Village well (Reported)	20	56	55.40	85	12	31.83

Table 5: Details of Noise Level Measurement Stations in Apr'23 to Mar'24

Sl. No.	Area	Project (OCP/UG)	Name of the Station
1	Jagannath	Jagannath OCP	Central Nursery (Repeated)
2			Near NBVL Station
3			Near MDTP
4			CWS Colony, MEETI
5		Ananta OCP	Central Nursery
6			Near NBVL Station (Repeated)
7			North East of Mine
8			Guthasahi Village
9	Bharatpur	Bharatpur OCP	Near Workshop
10			North-West Point of the Mine
11			Near MGR-RLS of Bharatpur

12			Near Regional Store
13	Lingaraj	Lingaraj OCP	Near OB Dump no. 5 (South Side of the Mine)
14			Near OB Dump no. 10 (North Side of the Mine)
15			IWSS
16			Near Lingaraj to Dera Road
17	Kaniha	Kaniha OCP	Patharmunda Village
18			Telisingha Village
19			Near Jarda Village
20			Site Office
21	Hingula	Hingula OCP	Time Office
22			South West Side of the Mine
23			North of the Mine, Purnapani, Kumunda Village
24			North East of the Mine, Solada Village
25		Balaram OCP	Near Project Office, Balaram OCP
26			Pump House near Outsourcing Working Patch
27			North West of the Mine, Solada Village (Repeated)
28			Natedi Village
29			Natada Village
30		Talcher Colliery	Officer's Club, Talcher Area
31			Near Canteen, Talcher Colliery
32	Talcher	Nandira Colliery	Project Office
33			Sub-Station, Nandira colliery
34		Deulbera Colliery	Manager's Office
35		Mandapal Sand Mine	Near Gopinathpur Village

6.1: STUDY AREA

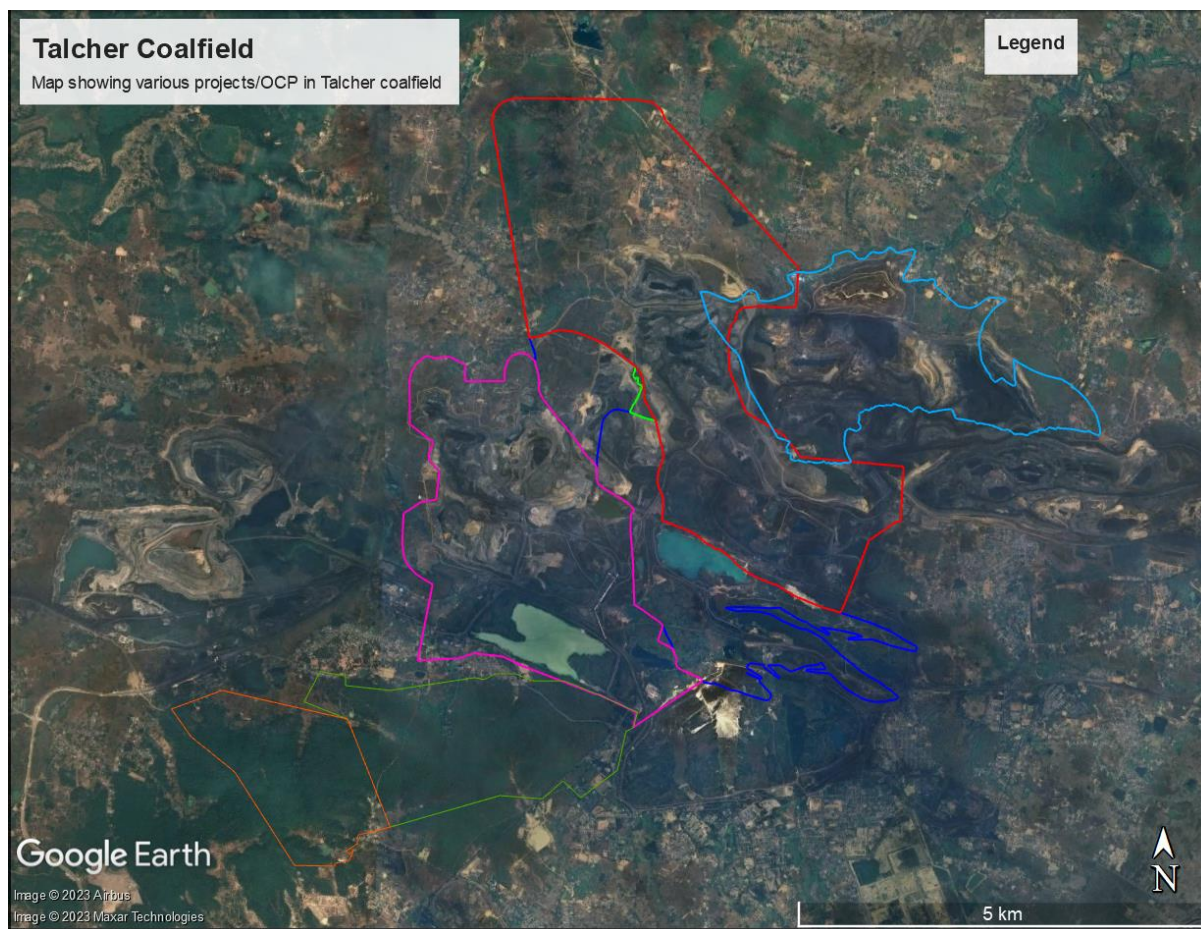


Figure 1 Satellite image of mines in Angul district with mine boundaries

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 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.

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 46 different locations in Talcher 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, 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

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 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.

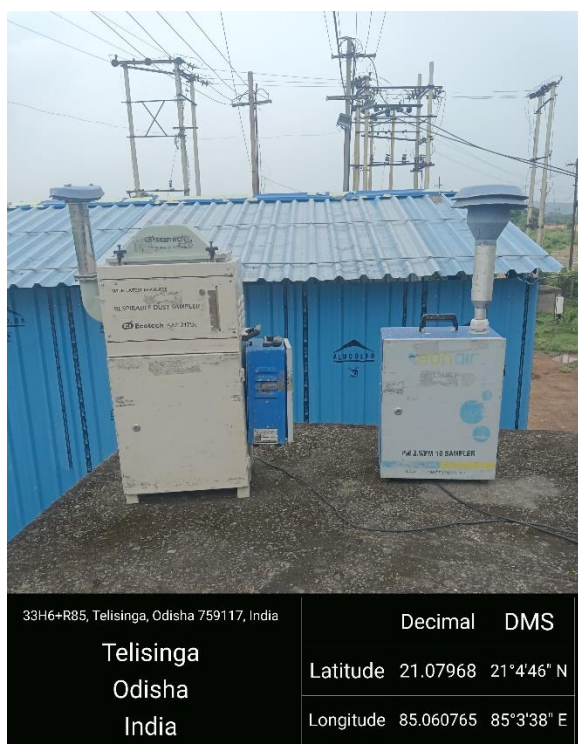


Fig. 2 : Air Sampling at a station in TCF

Fig. 3 : Air Sampling at a station in TCF



8.5. ENVIRONMENTAL PARAMETER ANALYSIS

Area: Jagannath Area
Project: Jagannath OCP

Table 1

Monitoring Station: Near NBVL Station

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

Date of Sampling	SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
04-Apr-23	184	91	39	13.55	16.12
17-Apr-23	138	61	22	15.54	16.52
06-May-23	202	95	46	10.56	18.54
20-May-23	206	97	48	17.58	16.58
03-Jun-23	188	94	42	15.66	13.56
16-Jun-23	183	90	39	16.59	14.51
01-Jul-23	188	93	42	13.56	16.54
21-Jul-23	189	93	42	13.56	16.54
05-Aug-23	198	94	44	12.56	18.56
21-Aug-23	197	92	44	13.56	16.52
06-Sep-23	197	95	44	16.69	16.45
16-Sep-23	196	92	44	17.16	17.82
03-Oct-23	250	152	72	18.98	17.14
16-Oct-23	265	156	62	17.16	17.14
03-Nov-23	248	152	54	14.08	14.91
21-Nov-23	255	156	58	10.32	14.29
06-Dec-23	242	163	60	14.86	11.47
16-Dec-23	248	160	62	13.32	15.36
05-Jan-24	248	166	65	12.56	17.58
20-Jan-24	232	138	54	11.88	17.14
06-Feb-24	249	146	55	13.54	14.63
19-Feb-24	258	165	62	12.25	13.74
06-Mar-24	204	106	48	12.12	14.38
16-Mar-24	228	146	53	14.58	16.56
Brief Statistics	SPM	PM₁₀	PM_{2.5}	SO₂	NO_x
Maximum	265	166	72	18.98	18.56
Minimum	138	61	22	10	11
Average	216.38	120.54	50.04	14.26	15.94
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Jagannath Area

Project: Ananta OCP

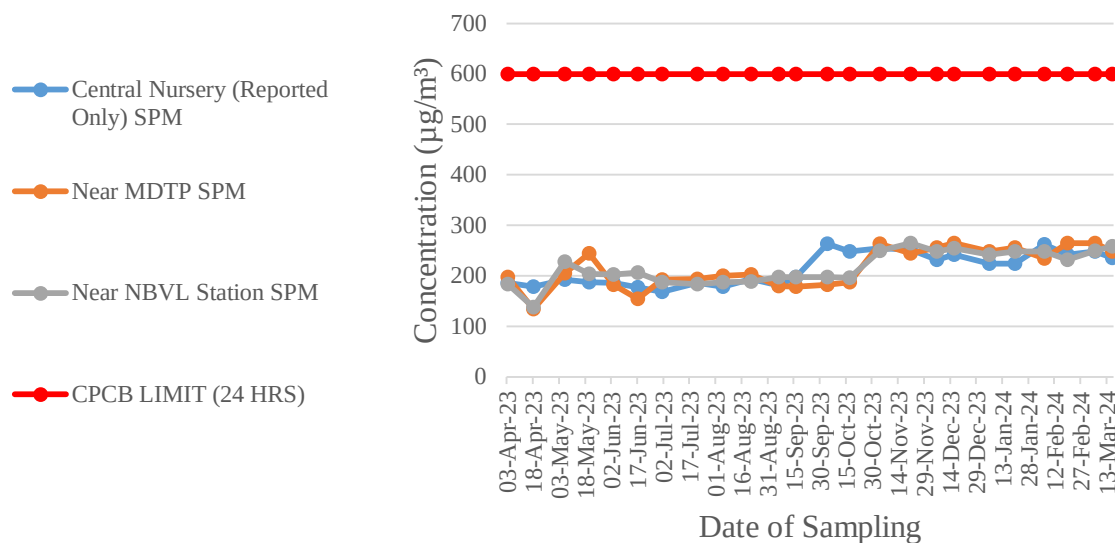
Table 2

Monitoring Station: Near NBVL Station

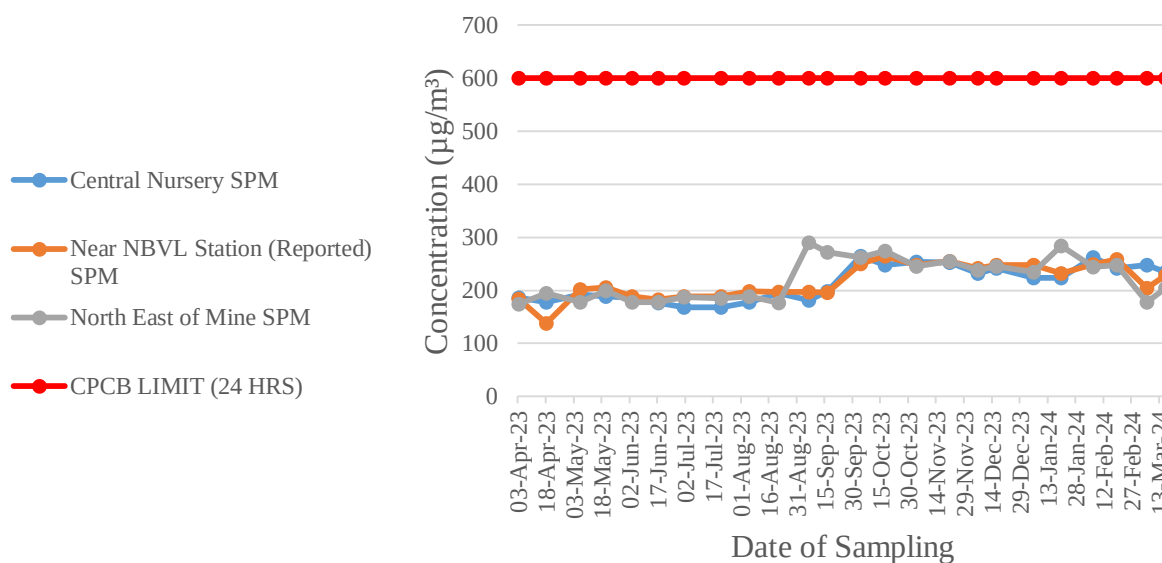
(All values are in $\mu\text{g}/\text{m}^3$)

Date of Sampling	SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
03-Apr-23	186	91	40	16.52	17.58
18-Apr-23	178	86	37	12.56	17.54
06-May-23	192	90	43	13.56	15.56
20-May-23	188	92	41	15.24	18.54
03-Jun-23	186	91	40	12.12	16.58
17-Jun-23	177	86	37	14.58	17.58
01-Jul-23	168	82	34	17.56	13.88
21-Jul-23	168	82	34	17.56	13.88
05-Aug-23	178	85	37	17.58	12.20
21-Aug-23	194	91	43	14.48	12.52
06-Sep-23	181	86	38	14.16	17.95
16-Sep-23	198	91	44	20.14	23.50
04-Oct-23	264	145	66	16.91	20.74
17-Oct-23	248	148	57	17.42	20.74
03-Nov-23	254	155	57	10.10	18.08
21-Nov-23	252	152	55	14.21	13.72
06-Dec-23	232	154	55	14.24	17.93
16-Dec-23	242	155	58	17.66	18.94
05-Jan-24	224	136	51	10.25	13.52
20-Jan-24	224	132	52	10.92	22.72
06-Feb-24	262	156	58	10.18	11.45
19-Feb-24	242	142	54	14.41	16.76
06-Mar-24	248	138	56	13.15	17.90
16-Mar-24	235	126	48	14.74	16.59
Brief Statistics	SPM	PM₁₀	PM_{2.5}	SO₂	NO_x
Maximum	264	156	66	20.14	23.5
Minimum	168	82	34	10	11
Average	213.38	116.33	47.29	14.59	16.93
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

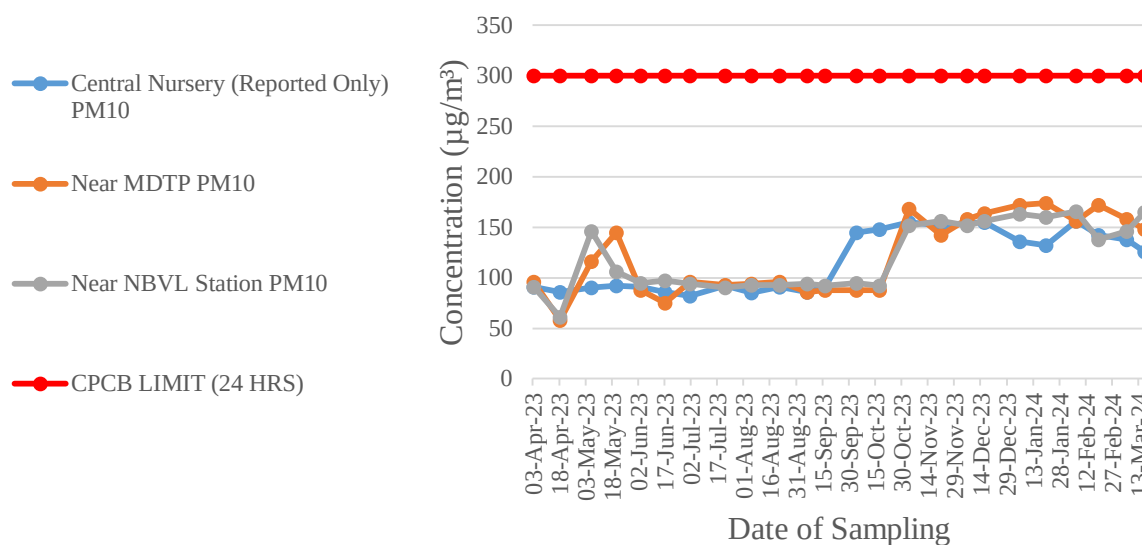
Graph Showing SPM for Jagannath OCP



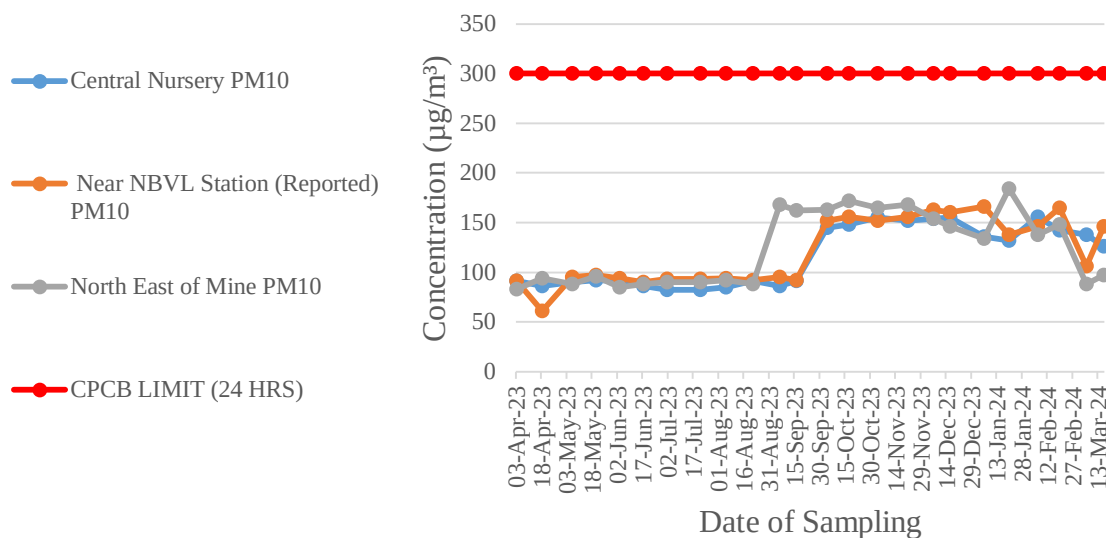
Graph Showing SPM for Ananta OCP



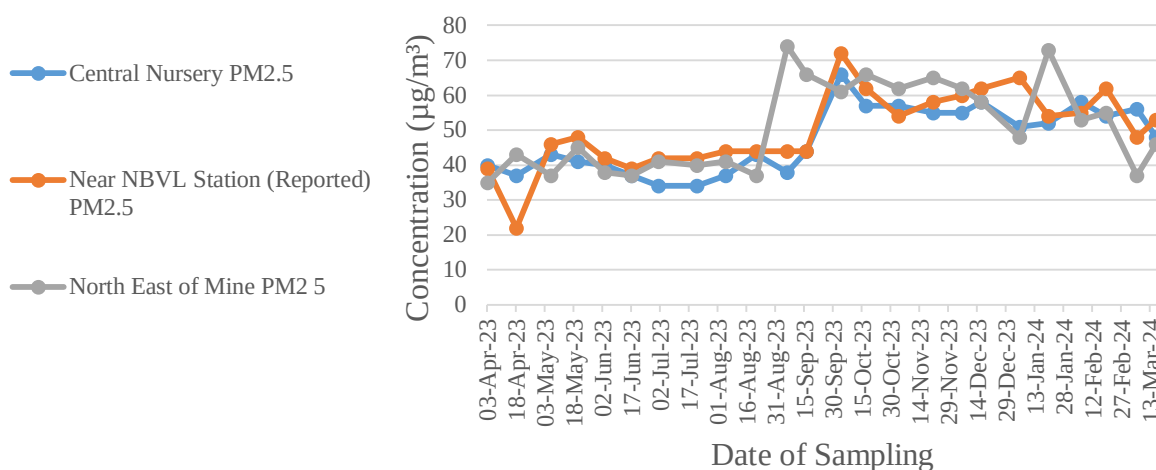
Graph Showing PM₁₀ for Jagannath OCP



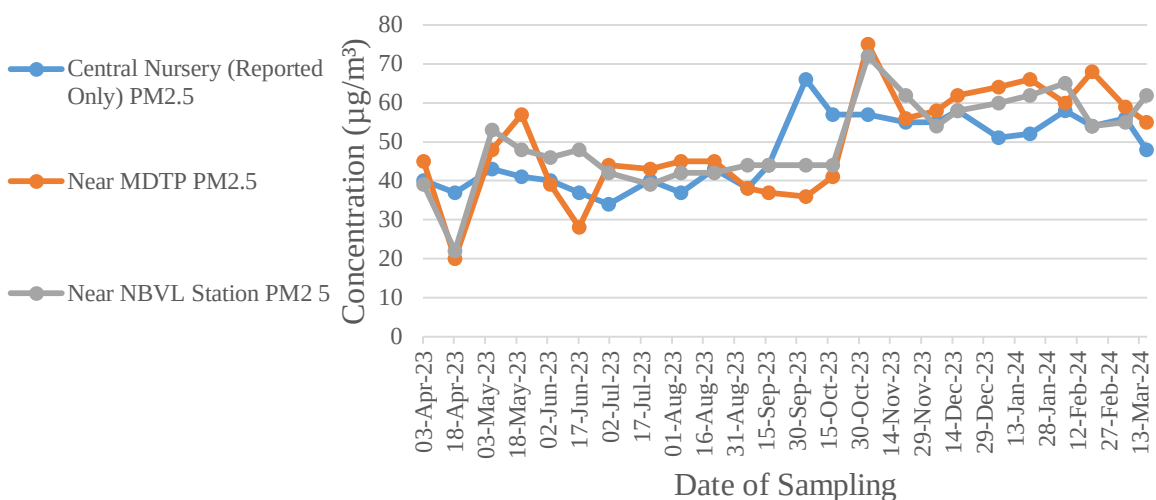
Graph Showing PM₁₀ for Ananta OCP

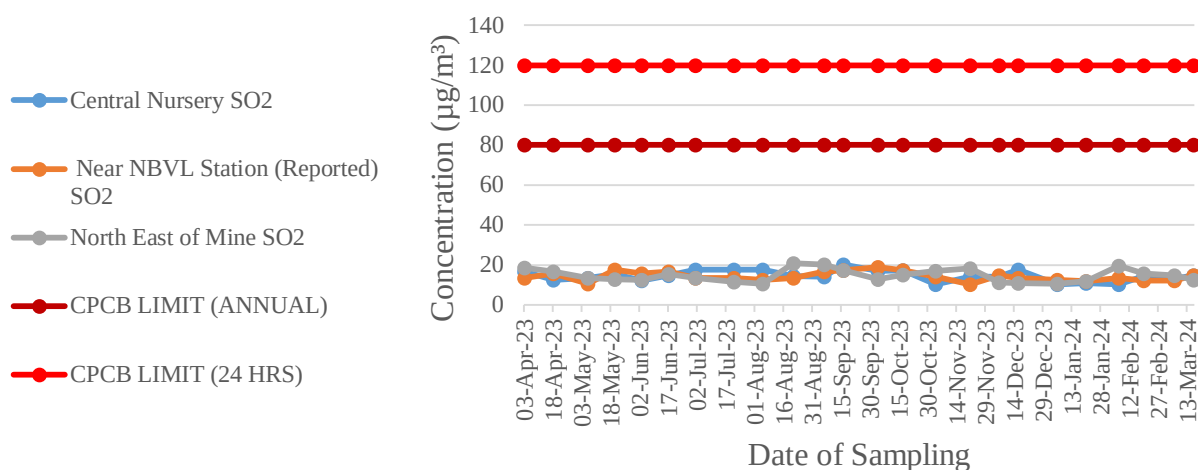
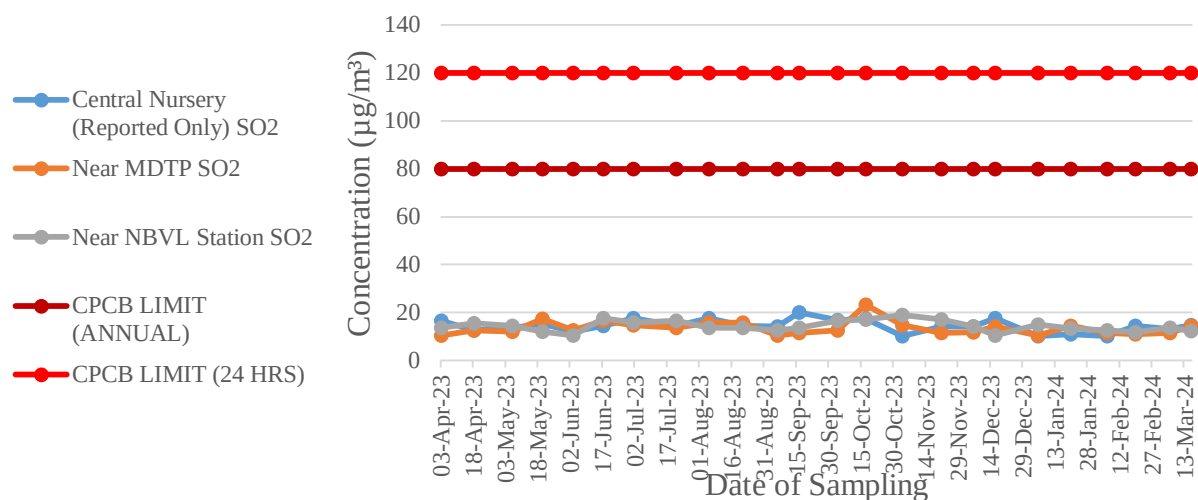


Graph Showing PM_{2.5} for Ananta OCP

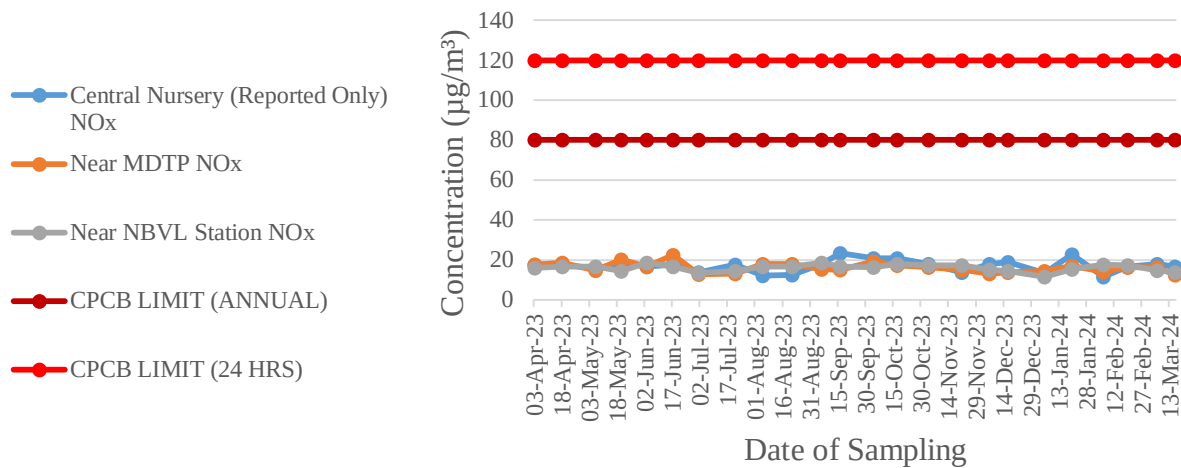


Graph Showing PM_{2.5} for Jagannath OCP

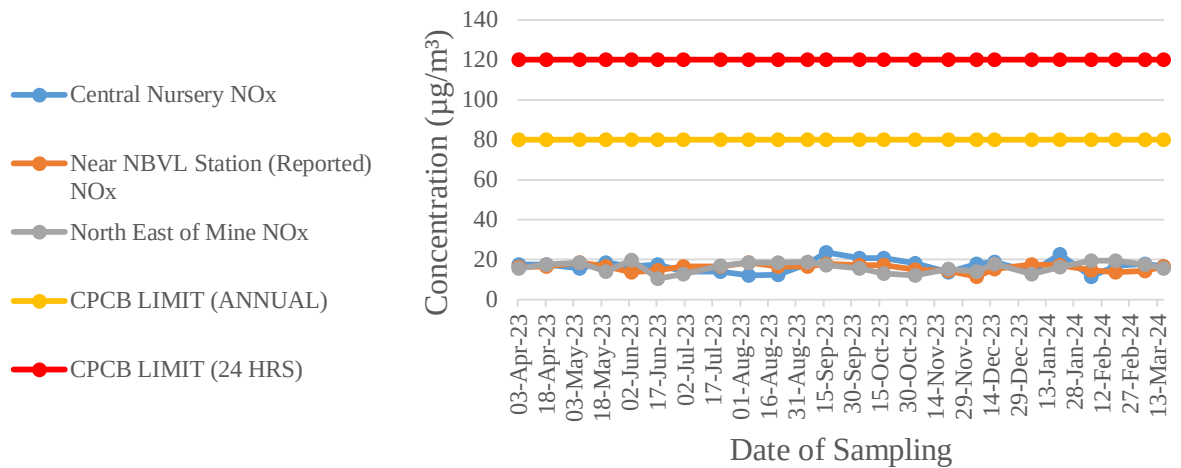


Graph Showing SO₂ for Ananta OCPGraph Showing SO₂ for Jagannath OCP

Graph Showing NO_x for Jagannath OCP



Graph Showing NO_x for Ananta OCP



Area: Jagannath Area

Project: Jagannath OCP

Table 3

Monitoring Station: CWS Colony, Meeti (Reference)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	162	81	30	12.56	14.58
06-Apr-23	157	77	29	13.52	19.25
12-Apr-23	155	74	28	16.85	12.25
13-Apr-23	150	72	26	11.52	15.26
19-Apr-23	145	67	25	10.56	16.54
20-Apr-23	158	75	29	15.42	17.82
26-Apr-23	140	62	23	10.52	11.95
27-Apr-23	144	63	24	13.56	17.98
04-May-23	150	70	26	15.64	18.54
05-May-23	140	60	22	15.42	14.57
10-May-23	144	63	24	13.52	15.56
11-May-23	136	57	20	12.52	18.54
18-May-23	142	62	23	12.59	18.57
19-May-23	146	66	25	16.59	20.56
24-May-23	157	77	29	12.54	15.58
25-May-23	164	82	32	18.54	20.052
29-May-23	163	82	31	11.52	17.54
30-May-23	154	72	27	13.85	15.42
05-Jun-23	163	81	30	12.56	18.54
06-Jun-23	158	77	29	15.55	16.78
12-Jun-23	155	74	28	10.56	17.55
13-Jun-23	150	72	26	13.52	19.26
19-Jun-23	150	68	26	11.52	17.58
20-Jun-23	157	76	29	17.54	14.56
26-Jun-23	138	61	22	15.56	12.56
27-Jun-23	152	72	27	13.52	14.52
05-Jul-23	155	72	28	11.21	13.85
06-Jul-23	146	68	25	10.45	14.56
12-Jul-23	137	61	22	17.89	15.58
13-Jul-23	136	59	21	14.36	18.95
19-Jul-23	162	81	30	11.21	13.85
20-Jul-23	157	77	29	10.45	14.56
26-Jul-23	155	74	28	17.89	15.58
27-Jul-23	150	68	26	14.36	18.95
28-Jul-23	164	83	32	17.56	13.88
29-Jul-23	156	73	28	12.56	19.84
03-Aug-23	163	81	32	13.56	11.58
04-Aug-23	158	77	29	15.52	14.56
09-Aug-23	155	74	28	10.52	13.56
10-Aug-23	150	69	26	16.52	17.85
18-Aug-23	149	70	26	17.58	13.89

19-Aug-23	155	73	28	14.21	16.58
25-Aug-23	143	63	24	16.88	14.59
26-Aug-23	138	57	22	10.52	13.87
04-Sep-23	152	72	27	13.55	13.59
05-Sep-23	155	74	28	16.45	12.87
11-Sep-23	143	63	24	16.69	16.45
12-Sep-23	151	71	27	13.91	20.56
20-Sep-23	150	70	26	11.61	20.03
21-Sep-23	141	62	23	13.45	17.82
25-Sep-23	146	65	25	12.19	23.5
26-Sep-23	155	73	28	21.29	17.88
05-Oct-23	152	82	30	12.63	20.19
06-Oct-23	175	85	32	10.65	17.14
11-Oct-23	160	80	29	11.57	19.88
12-Oct-23	182	85	34	11.11	18.8
18-Oct-23	166	84	33	15.37	21.15
19-Oct-23	172	86	35	11.13	17.88
27-Oct-23	162	82	30	17.9	20.74
28-Oct-23	170	88	34	15.68	17.95
01-Nov-23	178	83	36	12.96	15.43
02-Nov-23	170	78	32	15.72	16.33
08-Nov-23	182	89	38	14.63	17.3
09-Nov-23	168	78	29	12.4	15.68
16-Nov-23	175	84	33	13.25	16.11
17-Nov-23	184	89	38	14.14	15.59
24-Nov-23	170	82	30	11.19	18.95
25-Nov-23	176	85	34	11.32	14.32
29-Nov-23	180	88	36	10.77	17.3
30-Nov-23	173	83	32	12.7	14.29
01-Dec-23	178	85	34	13.21	17.67
02-Dec-23	188	89	38	13.18	12.73
08-Dec-23	180	87	35	17.09	15.78
09-Dec-23	176	85	34	10.68	17.35
18-Dec-23	176	86	33	12.32	14.45
19-Dec-23	190	90	38	15.36	16.34
22-Dec-23	180	84	35	16.32	17.51
23-Dec-23	173	81	32	14.36	15.88
03-Jan-24	158	76	28	10.12	14.21
04-Jan-24	186	88	36	12.52	13.87
10-Jan-24	195	94	42	10.56	11.98
11-Jan-24	170	86	34	11.52	14.58
18-Jan-24	194	94	40	11.91	19.31
19-Jan-24	178	89	37	12.11	17.14
24-Jan-24	172	84	35	14.11	22.72
25-Jan-24	182	90	38	12.88	17.17
01-Feb-24	184	89	37	14.25	19.77
02-Feb-24	182	85	36	15.12	15.19
07-Feb-24	164	79	30	14.07	14.63
08-Feb-24	166	83	32	11.38	16.89
16-Feb-24	168	85	33	19.38	13.11
17-Feb-24	180	88	36	16.45	12.02
23-Feb-24	178	83	34	18.63	16.27
24-Feb-24	160	74	27	14.41	12.38

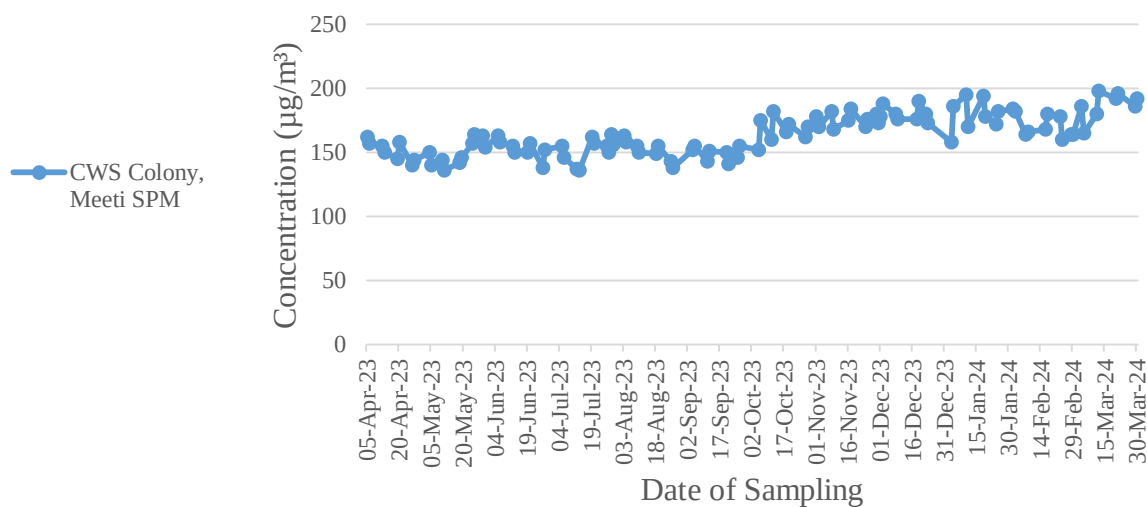
28-Feb-24	164	82	31	12.3	16.51
29-Feb-24	164	78	29	12.65	13.55
04-Mar-24	186	85	38	16.51	13.57
05-Mar-24	165	77	29	10.85	16.11
11-Mar-24	180	84	35	13.78	16.35
12-Mar-24	198	93	42	13.39	13.57
20-Mar-24	192	89	40	15.12	17.98
21-Mar-24	196	92	43	12.89	13.56
29-Mar-24	186	84	34	11.2	16.66
30-Mar-24	192	87	39	12.89	14.1
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	198	94	43	21.29	23.5
Minimum	136	57	20	10	12
Average	163.73	77.78	30.49	13.74	16.31
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

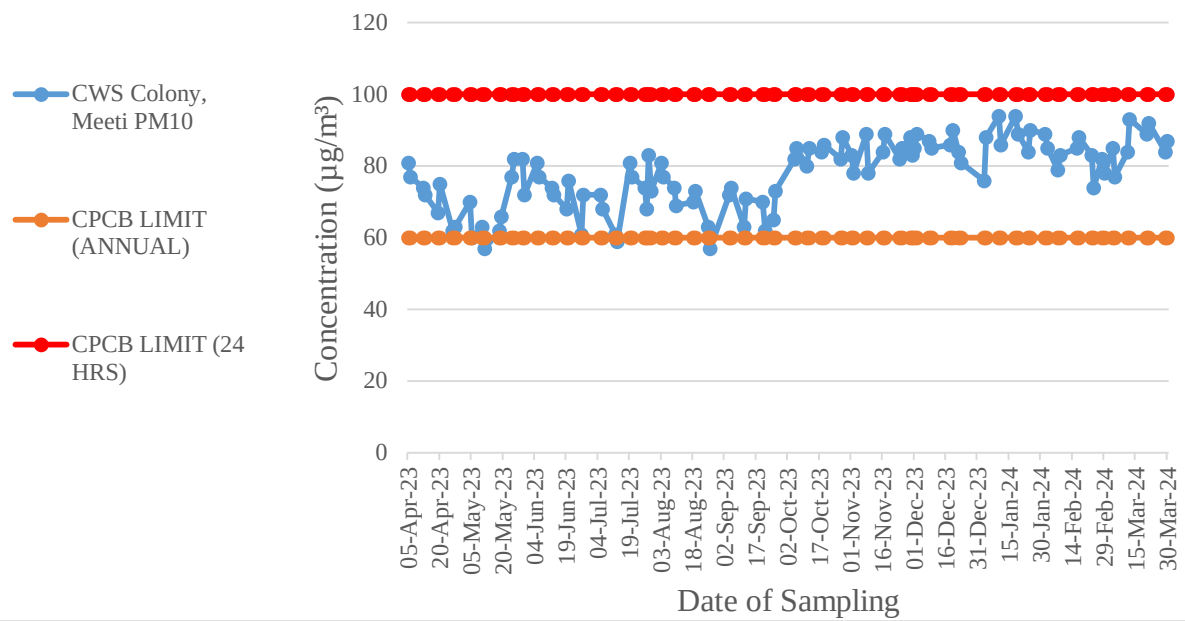


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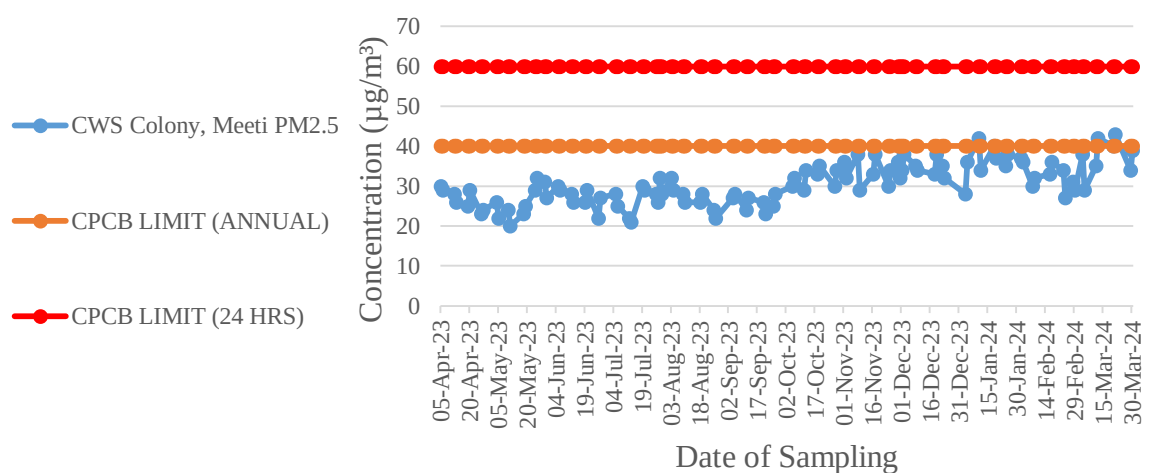
Graph Showing SPM for Jagannath OCP

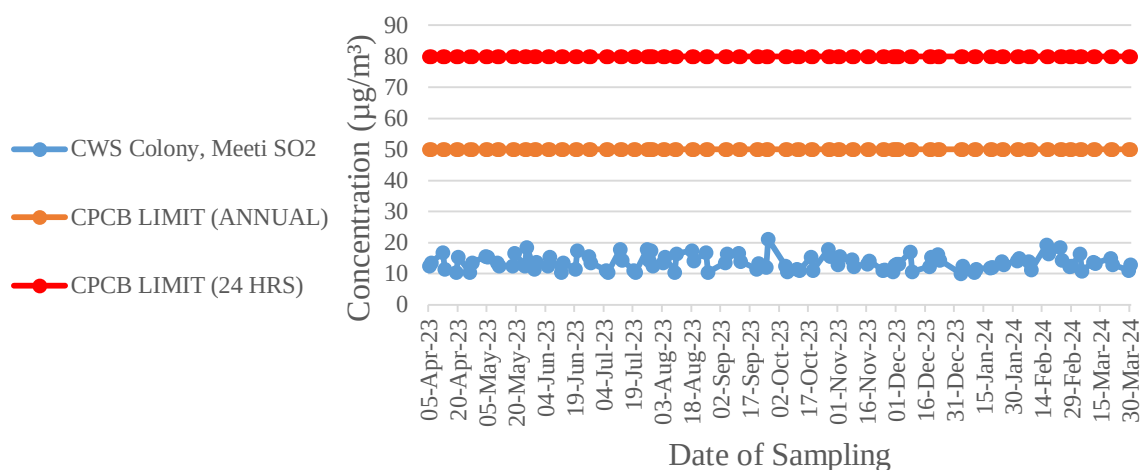


Graph Showing PM₁₀ for Jagannath OCP

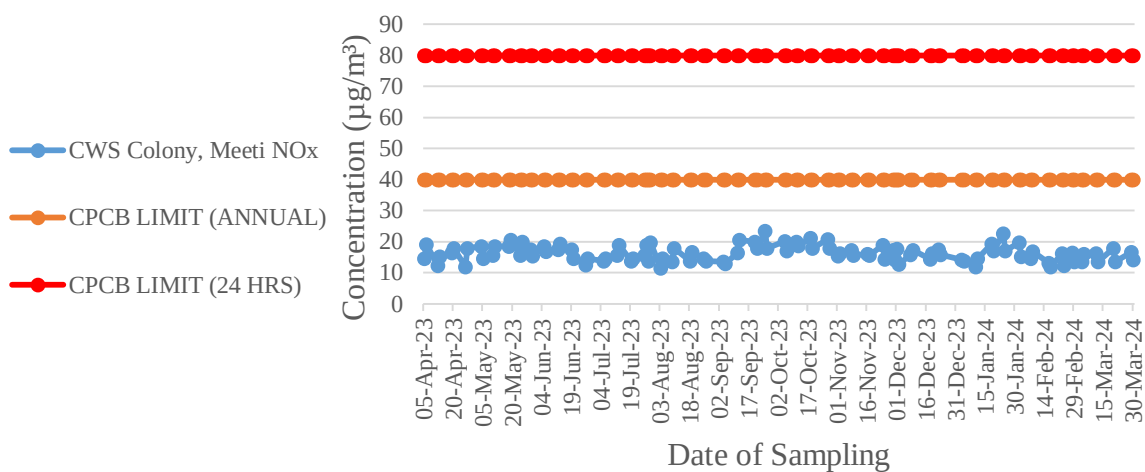
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Graph Showing PM_{2.5} for Jagannath OCP

Graph Showing SO₂ for Jagannath OCP

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Graph Showing NO_x for Jagannath OCP

Area: Jagannath Area

Project: Ananta OCP

Table 4

Monitoring Station: CWS Colony, Meeti (Reference)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	154	72	27	12.52	16.58
06-Apr-23	165	83	32	14.56	17.56
12-Apr-23	156	74	28	16.58	12.58
13-Apr-23	151	70	26	12.86	16.58
19-Apr-23	137	60	22	15.65	12.56
20-Apr-23	155	74	28	15.84	12.98
26-Apr-23	153	71	27	16.52	12.56
27-Apr-23	164	84	32	11.52	13.52
04-May-23	155	74	28	17.58	13.56
05-May-23	150	70	26	16.98	17.58
10-May-23	144	63	24	18.54	15.36
11-May-23	137	58	21	15.54	18.54
18-May-23	162	81	30	18.54	17.58
19-May-23	154	71	27	13.58	18.54
24-May-23	146	64	25	18.56	17.528
25-May-23	137	60	22	13.56	16.58
29-May-23	151	69	26	12.56	18.56
30-May-23	156	74	28	15.68	18.54
05-Jun-23	154	72	27	11.58	17.85
06-Jun-23	164	83	32	13.56	20.26
12-Jun-23	156	74	28	17.58	18.47
13-Jun-23	148	68	26	11.52	13.56
19-Jun-23	158	78	29	18.56	16.58
20-Jun-23	163	82	32	11.12	13.54
26-Jun-23	156	73	28	15.56	13.54
27-Jun-23	159	69	27	11.62	13.74
05-Jul-23	145	68	25	15.31	10.52
06-Jul-23	156	73	28	14.56	17.58
12-Jul-23	138	62	22	16.25	15.44
13-Jul-23	150	72	26	10.85	13.56
19-Jul-23	155	74	28	16.25	15.44
20-Jul-23	150	69	26	10.85	13.56
26-Jul-23	143	62	24	14.56	19.84
27-Jul-23	154	71	27	16.54	12.48
28-Jul-23	140	61	23	11.96	14.58
29-Jul-23	137	60	22	13.54	12.54
03-Aug-23	154	72	27	12.52	16.58
04-Aug-23	164	83	32	13.52	18.54
09-Aug-23	156	74	28	15.65	14.52
10-Aug-23	148	68	26	16.52	15.65
18-Aug-23	156	74	28	13.55	14.58

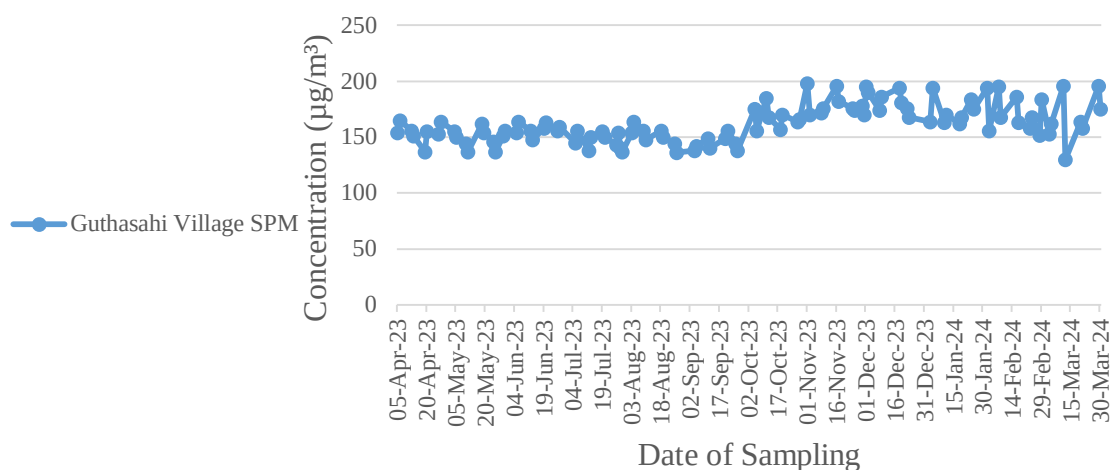
19-Aug-23	150	69	26	17.58	15.23
25-Aug-23	144	63	24	13.52	16.36
26-Aug-23	136	58	21	11.88	16.87
04-Sep-23	138	80	32	11.57	21.71
05-Sep-23	142	63	24	17.49	16.45
11-Sep-23	149	69	26	11.61	17.88
12-Sep-23	140	61	23	13.15	20.94
20-Sep-23	149	68	26	22.26	16.45
21-Sep-23	156	75	28	18.55	15.08
25-Sep-23	144	63	24	19.22	14.95
26-Sep-23	138	60	22	18.55	14.39
05-Oct-23	175	82	33	19.81	15.02
06-Oct-23	156	74	28	17.13	14.39
11-Oct-23	185	86	35	17.68	14.21
12-Oct-23	168	79	30	19.58	15.67
18-Oct-23	157	75	28	17.49	16.45
19-Oct-23	170	86	34	16.68	15.70
27-Oct-23	164	84	32	15.97	13.59
28-Oct-23	166	85	33	16.19	14.95
01-Nov-23	198	95	43	11.32	12.53
02-Nov-23	170	80	30	13.76	12.00
08-Nov-23	172	86	33	12.97	11.33
09-Nov-23	176	88	35	11.19	13.07
16-Nov-23	196	92	41	11.9	13.72
17-Nov-23	182	86	37	16.16	12.47
24-Nov-23	176	84	34	13.6	14.37
25-Nov-23	174	82	33	11.87	16.11
29-Nov-23	178	84	35	13.85	16.84
30-Nov-23	170	80	31	12.96	12
01-Dec-23	195	94	42	14.96	14.46
02-Dec-23	190	90	38	21.16	14.54
08-Dec-23	174	86	33	17.46	15.09
09-Dec-23	186	88	37	10.88	18.3
18-Dec-23	194	92	40	14.32	16.24
19-Dec-23	181	86	35	13.32	17.15
22-Dec-23	176	84	33	14.32	16.51
23-Dec-23	168	81	30	15.36	17.51
03-Jan-24	164	84	32	12.54	13.52
04-Jan-24	194	92	41	15.12	17.36
10-Jan-24	163	83	31	11.58	12.56
11-Jan-24	170	86	34	12.89	14.89
18-Jan-24	162	79	29	10.42	15.7
19-Jan-24	168	86	32	13.98	14.39
24-Jan-24	184	92	38	12.96	14.21
25-Jan-24	175	88	35	11.18	13.71
01-Feb-24	194	92	39	11.38	15.50
02-Feb-24	156	70	26	12.21	18.05
07-Feb-24	195	91	39	14.15	16.49
08-Feb-24	168	85	33	15.93	12.35
16-Feb-24	186	91	38	12.3	18.94
17-Feb-24	163	83	31	10.64	16.89
23-Feb-24	158	74	27	14.24	14.75
24-Feb-24	168	86	33	16.39	12.52

28-Feb-24	152	68	24	13.52	11.72
29-Feb-24	184	64	37	11.71	11.36
04-Mar-24	153	65	24	10.9	16.11
05-Mar-24	162	72	27	11.11	17.95
11-Mar-24	196	92	39	12.12	14.38
12-Mar-24	130	72	26	16.18	15.04
20-Mar-24	164	75	28	12.22	14.59
21-Mar-24	158	71	26	13.98	16.58
29-Mar-24	196	94	38	10.89	14.59
30-Mar-24	175	86	33	16.98	12.89
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	198	95	43	22.26	21.71
Minimum	130	58	21	10	11
Average	162.04	76.66	29.89	14.48	15.36
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

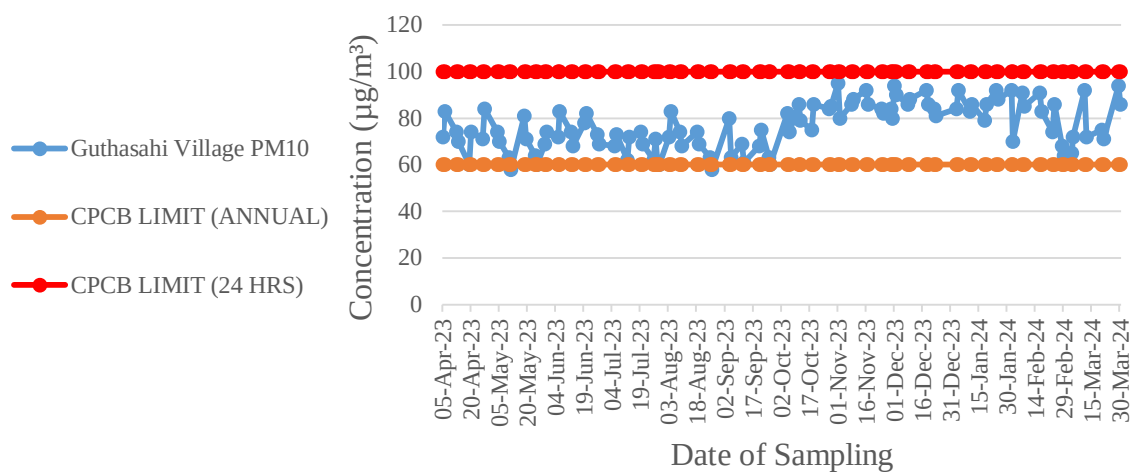


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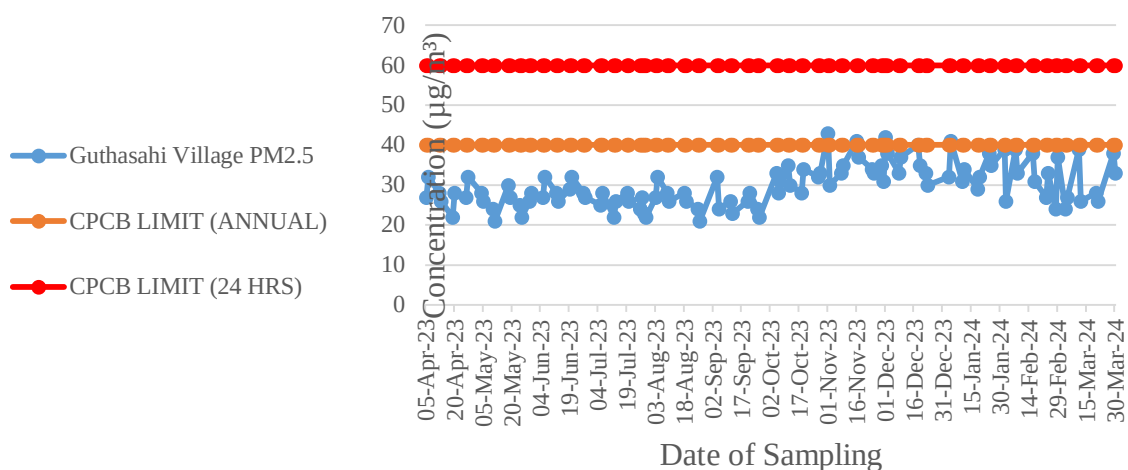
Graph Showing SPM for Ananta OCP



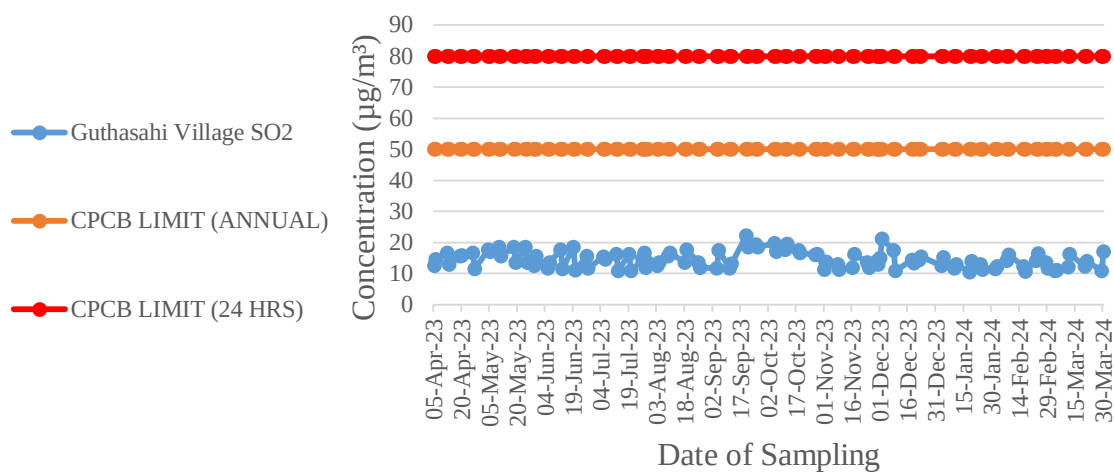
Graph Showing PM₁₀ for Ananta OCP

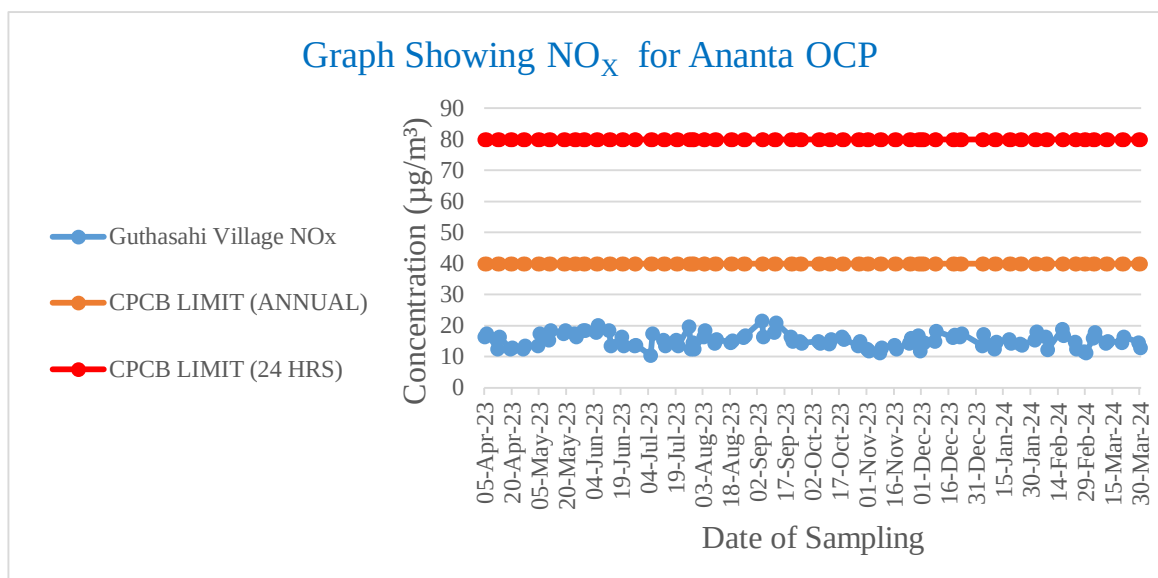


Graph Showing PM_{2.5} for Ananta OCP



Graph Showing SO₂ for Ananta OCP





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Area: Bharatpur Area

Project: Bharatpur OCP

Table 5

Monitoring Station: Near ETP/Workshop

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	194	96	44	10.52	12.56
21-Apr-23	194	91	42	10.52	15.56
06-May-23	198	93	44	16.58	17.58
20-May-23	182	88	39	16.33	14.56
03-Jun-23	196	96	44	16.52	18.58
21-Jun-23	180	87	38	11.52	17.58
01-Jul-23	167	83	34	14.56	19.84
21-Jul-23	175	88	36	13.56	10.52
05-Aug-23	202	96	45	13.52	17.58
21-Aug-23	198	93	44	17.58	10.52
06-Sep-23	180	89	38	11.61	12.16
16-Sep-23	194	93	43	18.87	16.45
07-Oct-23	223	145	64	16.67	15.08
25-Oct-23	262	152	60	17.16	15.08
03-Nov-23	236	135	49	12.17	12.58
21-Nov-23	246	148	54	12.70	12.41
06-Dec-23	250	172	64	17.09	13.88
16-Dec-23	268	186	72	17.09	13.88
05-Jan-24	258	174	66	12.58	16.12
20-Jan-24	238	142	57	13.37	15.73
12-Feb-24	270	166	63	13.32	10.93
20-Feb-24	256	156	59	11.71	12.89
06-Mar-24	242	136	52	13.15	12.53
16-Mar-24	242	152	58	11.56	18.59
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	270	186	72	18.87	19.84
Minimum	167	83	34	11	11
Average	218.79	123.21	50.38	14.18	14.72
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Bharatpur Area

Project: Bharatpur OCP

Table 6

Monitoring Station: Near MGR-RLS of Bharatpur

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	191	94	43	16.52	17.58
21-Apr-23	186	90	40	15.52	17.58
12-May-23	201	94	45	13.52	17.58
26-May-23	174	83	35	15.12	18.56
07-Jun-23	191	94	43	14.52	18.54
21-Jun-23	186	89	40	13.56	18.54
07-Jul-23	194	95	44	11.96	14.58
21-Jul-23	191	93	42	16.58	14.58
11-Aug-23	188	93	41	14.52	16.52
22-Aug-23	204	94	45	13.99	12.10
07-Sep-23	178	88	37	14.16	14.21
16-Sep-23	180	91	38	26.50	21.93
07-Oct-23	280	166	72	24.87	21.15
26-Oct-23	250	138	51	15.30	18.51
03-Nov-23	252	150	55	12.43	15.43
21-Nov-23	258	158	58	14.72	11.85
06-Dec-23	236	155	58	14.37	18.30
16-Dec-23	248	165	62	15.63	18.30
05-Jan-24	252	168	65	10.28	12.00
20-Jan-24	258	155	61	12.51	21.15
12-Feb-24	254	164	60	12.48	19.76
24-Feb-24	248	148	57	11.71	19.45
07-Mar-24	235	128	50	13.70	13.01
16-Mar-24	206	128	45	13.59	16.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	280	168	72	26.5	21.93
Minimum	174	83	35	10	12
Average	218.38	121.71	49.46	14.92	16.99
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Bharatpur Area

Project: Bharatpur OCP

Monitoring Station: Near Regional Store

Table 7

Date of Sampling	SPM	PM10	PM2.5	SO2	NO_x
07-Apr-23	188	92	41	13.52	15.42
22-Apr-23	184	88	39	12.56	16.58
12-May-23	178	86	38	12.52	13.56
26-May-23	178	86	37	12.56	20.45
07-Jun-23	185	89	40	15.64	11.58
21-Jun-23	175	85	36	17.58	13.52
07-Jul-23	172	86	35	13.54	12.54
22-Jul-23	179	87	37	17.58	14.71
11-Aug-23	184	88	39	13.52	14.52
22-Aug-23	180	86	38	11.52	16.85
07-Sep-23	195	94	43	16.43	17.23
28-Sep-23	174	85	36	19.35	15.73
07-Oct-23	262	148	66	18.69	15.70
26-Oct-23	270	158	64	16.69	15.70
03-Nov-23	244	143	52	10.21	12.53
21-Nov-23	248	153	55	13.30	12.41
06-Dec-23	228	148	55	10.33	14.46
16-Dec-23	245	156	58	17.32	15.78
05-Jan-24	238	146	59	14.25	14.58
20-Jan-24	275	170	68	10.94	15.02
12-Feb-24	262	154	58	10.27	21.86
21-Feb-24	252	142	54	12.65	13.36
07-Mar-24	204	124	45	13.20	10.92
17-Mar-24	234	134	51	14.63	13.12
Brief Statistics	SPM	PM10	PM2.5	SO2	NO_x
Maximum	275	170	68	19.35	21.86
Minimum	172	85	35	10	11
Average	213.92	117.83	47.67	14.12	14.92
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Bharatpur Area

Project: Bharatpur OCP

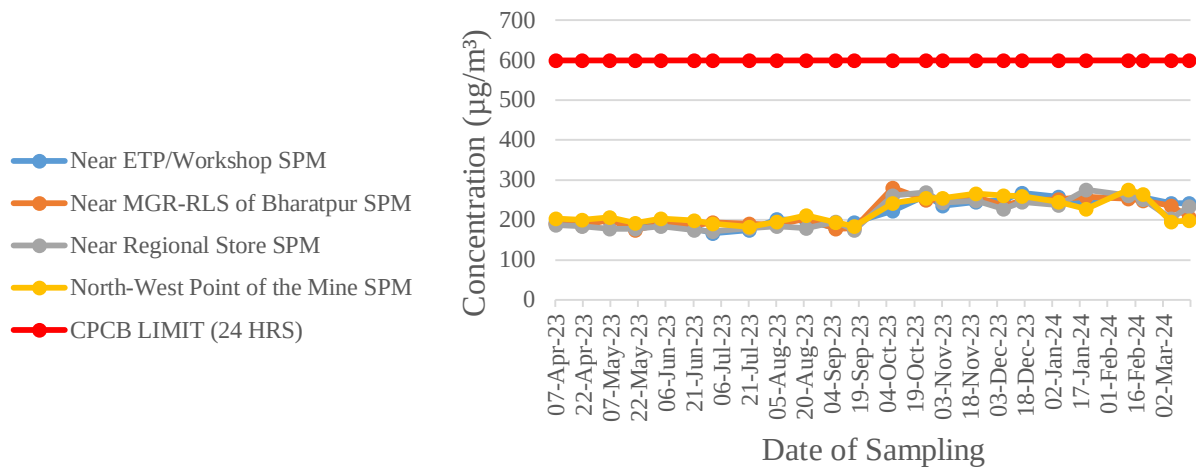
Table 8

Monitoring Station: North-West Point of the Mine

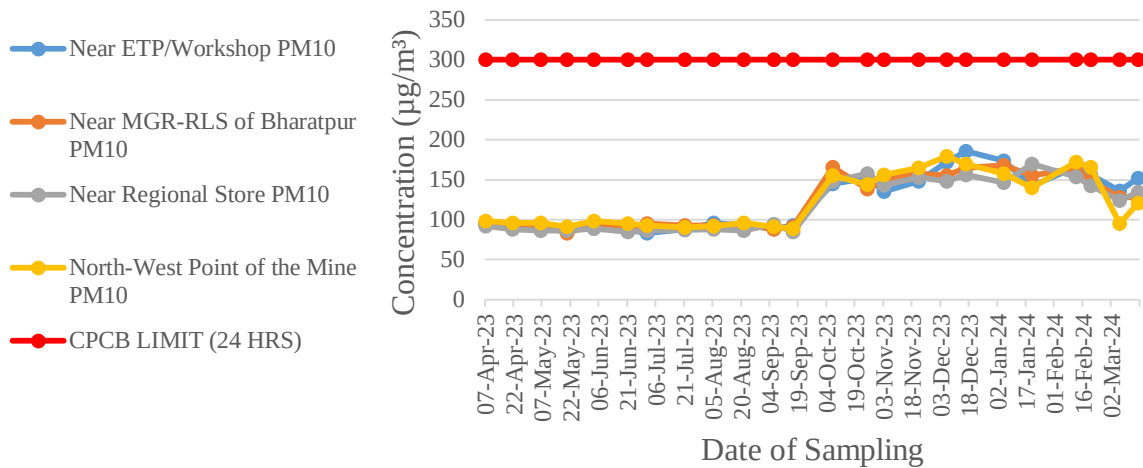
(All values are in $\mu\text{g}/\text{m}^3$)

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	204	98	47	12.58	16.58
21-Apr-23	200	96	45	14.05	16.58
06-May-23	206	96	48	13.52	16.28
20-May-23	192	91	42	13.75	15.88
03-Jun-23	204	98	47	11.52	13.55
21-Jun-23	198	95	44	15.44	14.12
01-Jul-23	190	93	42	16.54	12.48
21-Jul-23	182	90	39	15.12	18.45
05-Aug-23	196	92	43	18.54	12.52
21-Aug-23	212	96	48	14.58	16.65
06-Sep-23	194	91	42	12.06	10.28
16-Sep-23	185	89	40	23.32	21.93
07-Oct-23	242	155	69	11.59	19.31
25-Oct-23	255	144	56	16.52	21.15
03-Nov-23	255	156	57	16.45	16.84
21-Nov-23	266	165	62	11.59	10.74
06-Dec-23	262	179	68	11.40	14.46
16-Dec-23	260	170	66	18.31	14.46
05-Jan-24	246	158	62	13.58	17.89
20-Jan-24	228	140	54	15.18	21.15
12-Feb-24	276	172	68	15.13	12.54
20-Feb-24	265	166	63	12.37	14.70
06-Mar-24	196	95	42	10.27	12.43
16-Mar-24	198	121	48	10.52	12.54
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	276	179	69	23.32	21.93
Minimum	182	89	39	10	10
Average	221.33	122.75	51.75	14.33	15.56
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

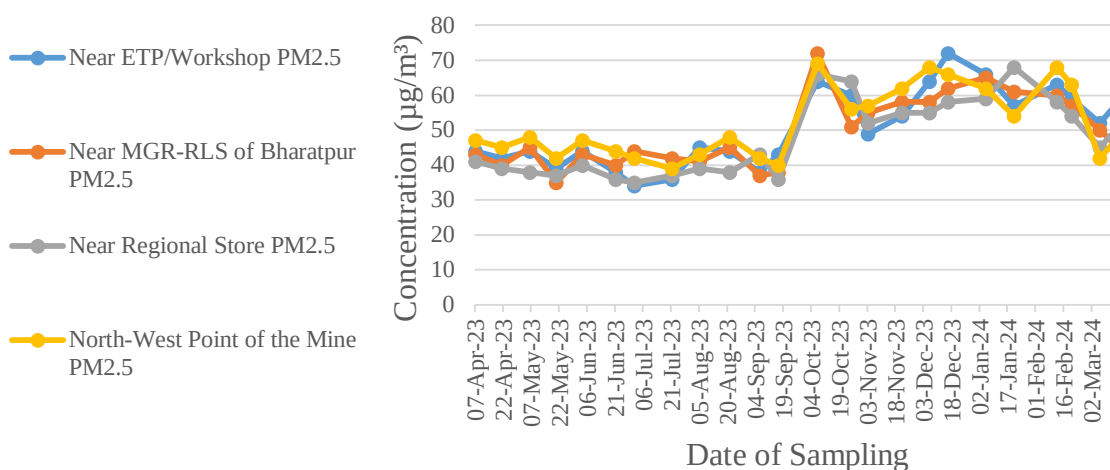
Graph Showing SPM for Bharatpur OCP



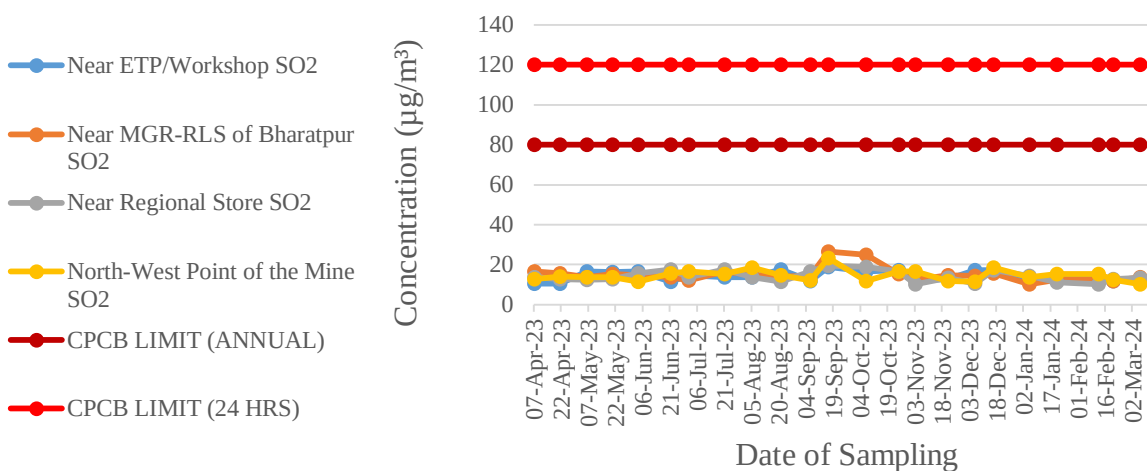
Graph Showing PM₁₀ for Bharatpur OCP

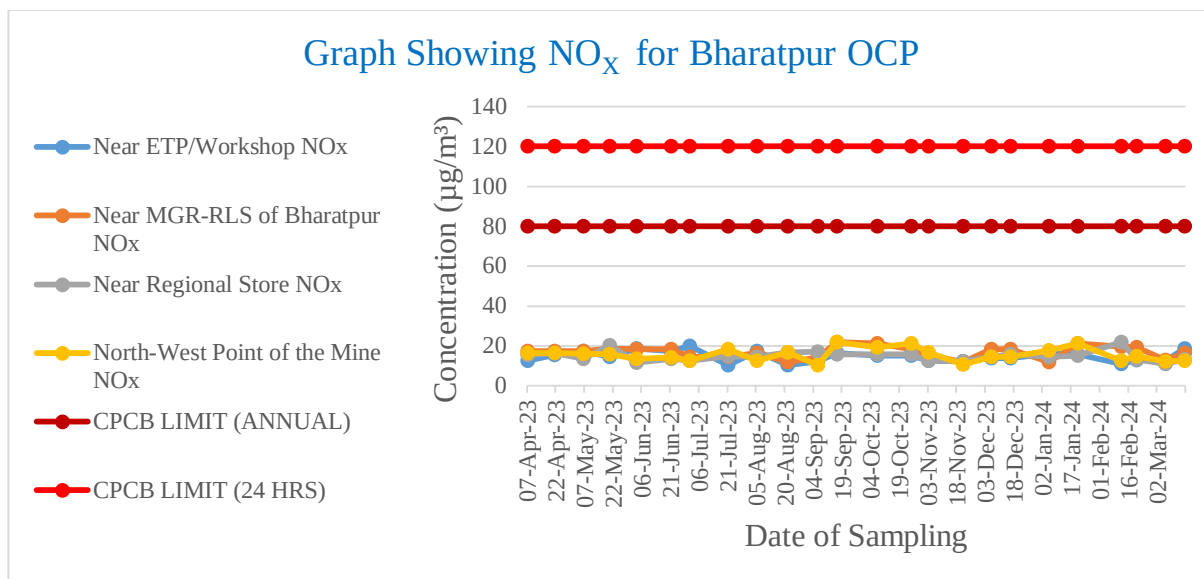


Graph Showing PM_{2.5} for Bharatpur OCP



Graph Showing SO₂ for Bharatpur OCP





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Area: Bharatpur Area

Project: Bharatpur OCP

Monitoring Station: East of the Mine, Natedi Village (Reported Only)
Reference Station

Table 9

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	158	77	29	13.56	18.54
04-Apr-23	153	72	27	11.47	15.95
10-Apr-23	162	81	30	10.41	12.56
11-Apr-23	156	76	28	12.56	15.58
17-Apr-23	158	82	31	15.65	17.58
18-Apr-23	137	74	28	12.54	16.58
24-Apr-23	139	60	22	11.52	15.65
25-Apr-23	143	68	26	10.56	13.52
02-May-23	158	77	29	13.56	13.52
03-May-23	137	58	21	15.24	17.59
08-May-23	139	60	22	10.52	14.52
09-May-23	135	57	20	15.24	18.54
16-May-23	137	59	22	12.51	19.56
17-May-23	154	72	27	13.52	18.59
22-May-23	157	79	29	18.56	13.52
23-May-23	166	82	33	13.56	18.41
30-May-23	155	74	28	18.54	13.52
31-May-23	146	65	25	10.54	18.74
01-Jun-23	156	73	28	10.52	13.56
02-Jun-23	141	61	23	13.56	17.85
09-Jun-23	154	71	27	14.58	19.85
10-Jun-23	143	62	24	12.56	16.44
16-Jun-23	164	80	32	13.52	14.58
17-Jun-23	153	71	27	16.58	13.56
23-Jun-23	144	63	24	13.52	18.54
24-Jun-23	155	74	28	17.56	12.55
03-Jul-23	143	64	24	10.52	23.52
04-Jul-23	138	62	22	18.97	16.59
10-Jul-23	150	72	26	10.52	11.25
11-Jul-23	139	62	22	13.95	14.76
17-Jul-23	143	65	24	13.12	12.25
18-Jul-23	136	62	21	16.85	18.54
24-Jul-23	140	64	23	14.71	14.52
25-Jul-23	138	61	22	11.96	16.00
01-Aug-23	156	73	28	10.25	17.56
02-Aug-23	141	61	23	13.56	14.18
07-Aug-23	154	71	27	13.58	16.58
08-Aug-23	143	62	23	12.28	14.25
16-Aug-23	152	71	27	15.47	16.58
17-Aug-23	143	63	24	11.58	14.56
23-Aug-23	158	77	29	13.89	19.85

24-Aug-23	146	66	25	11.52	16.58
30-Aug-23	154	71	27	14.58	17.45
31-Aug-23	141	62	23	16.58	16.45
01-Sep-23	150	68	26	11.59	16.45
02-Sep-23	161	82	30	12.58	18.6
08-Sep-23	163	83	32	15.77	16.45
09-Sep-23	143	63	24	20.67	21.93
18-Sep-23	147	65	25	23.37	18.09
19-Sep-23	138	60	22	18.08	13.71
27-Sep-23	165	84	32	22.26	16.45
28-Sep-23	162	79	30	21.75	17.2
03-Oct-23	155	75	28	23.89	18.09
04-Oct-23	172	88	34	17.87	15.02
09-Oct-23	158	78	29	20.63	16.45
10-Oct-23	154	74	27	16.67	13.02
16-Oct-23	144	65	24	20.14	14.88
17-Oct-23	158	78	29	10.16	15.02
25-Oct-23	164	83	31	17.16	17.82
26-Oct-23	155	74	27	19.73	18.69
30-Oct-23	178	87	36	19.94	16.45
31-Oct-23	172	80	34	19.01	18.51
06-Nov-23	174	83	32	12.41	13.72
07-Nov-23	185	89	38	11.19	13.72
13-Nov-23	194	92	40	10.77	12.53
14-Nov-23	169	82	31	10.39	11.85
18-Nov-23	174	79	32	12.12	11.85
20-Nov-23	178	84	35	11.11	12
27-Nov-23	176	88	36	14.72	16.21
28-Nov-23	196	92	41	18.14	16.33
04-Dec-23	174	82	33	13.60	17.67
05-Dec-23	195	93	39	14.12	12.67
11-Dec-23	168	79	30	13.43	15.2
12-Dec-23	180	86	35	12.11	10.99
20-Dec-23	175	84	33	14.19	18.14
21-Dec-23	193	92	39	13.26	15.41
26-Dec-23	168	82	30	12.34	14.54
27-Dec-23	182	86	35	14.58	16.41
01-Jan-24	162	82	30	10.36	12.52
02-Jan-24	174	88	36	13.28	16.98
08-Jan-24	163	83	30	11.57	14.22
09-Jan-24	166	86	33	15.85	12.26
16-Jan-24	165	84	32	11.65	13.02
17-Jan-24	174	88	35	10.21	15.02
22-Jan-24	184	91	38	14.11	20.37
23-Jan-24	170	87	34	10.92	19.58
30-Jan-24	152	71	26	10.45	17.17
31-Jan-24	163	82	30	10.95	15.51
03-Feb-24	164	84	32	13.82	19.09
05-Feb-24	160	76	28	10.27	14.11
09-Feb-24	193	92	39	14.01	22.37
10-Feb-24	158	75	28	10.47	15.4
19-Feb-24	176	85	33	12.65	12.73
20-Feb-24	172	82	30	11.55	11.02

26-Feb-24	182	88	36	15.24	11.32
27-Feb-24	192	93	39	14.41	13.84
01-Mar-24	160	74	27	14.34	16.13
02-Mar-24	148	66	23	17.10	21.48
08-Mar-24	198	95	43	16.15	16.16
09-Mar-24	176	84	35	15.45	17.01
18-Mar-24	202	92	41	10.52	17.58
19-Mar-24	206	96	44	14.56	13.52
27-Mar-24	205	93	40	13.26	16.74
28-Mar-24	156	75	27	10.45	12.98
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	206	96	44	23.89	23.52
Minimum	135	57	20	10	11
Average	161.12	76.43	29.60	14.13	15.88
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Bharatpur Area

Project: Bharatpur OCP

Table 10

Monitoring Station: Near Joragdia Village (Reference)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	161	81	30	12.52	16.58
06-Apr-23	153	71	27	14.58	17.58
12-Apr-23	146	67	25	11.52	14.58
13-Apr-23	155	74	28	12.58	16.58
19-Apr-23	146	68	25	15.85	19.85
20-Apr-23	142	62	23	16.58	15.85
26-Apr-23	155	73	28	16.33	17.58
27-Apr-23	150	70	26	12.58	16.58
04-May-23	156	74	28	11.52	18.56
05-May-23	161	79	30	13.56	15.64
10-May-23	150	68	26	11.85	13.56
11-May-23	139	60	22	13.54	16.56
18-May-23	136	58	21	16.58	17.52
19-May-23	149	68	26	12.95	15.65
24-May-23	155	73	28	10.53	14.86
25-May-23	145	66	25	14.04	12.75
29-May-23	145	66	25	14.04	12.75
30-May-23	138	60	22	12.59	17.56
05-Jun-23	162	81	30	12.2	18.77
06-Jun-23	153	71	27	17.58	13.52
12-Jun-23	146	67	25	14.58	18.55
13-Jun-23	156	73	28	16.58	13.56
19-Jun-23	189	92	42	11.52	18.54
20-Jun-23	146	65	25	13.54	18.45
26-Jun-23	159	78	29	14.75	14.56
27-Jun-23	164	83	32	14.55	17.58
05-Jul-23	138	61	22	13.56	10.52
06-Jul-23	146	66	25	15.12	18.45
12-Jul-23	142	62	23	16.58	14.58
13-Jul-23	139	60	22	17.58	14.71
19-Jul-23	138	61	22	11.28	13.56
20-Jul-23	136	59	21	13.85	16.35
26-Jul-23	156	75	28	19.58	12.25
27-Jul-23	146	67	25	12.26	14.78
28-Jul-23	162	81	31	14.96	16.54
29-Jul-23	157	78	29	14.56	17.65
03-Aug-23	162	81	30	14.52	16.52
04-Aug-23	153	71	27	13.59	14.52
09-Aug-23	146	66	25	14.52	13.52
10-Aug-23	156	73	28	14.59	12.58
18-Aug-23	155	74	28	12.74	15.88
19-Aug-23	161	79	30	18.54	16.58
25-Aug-23	148	68	26	13.52	14.52

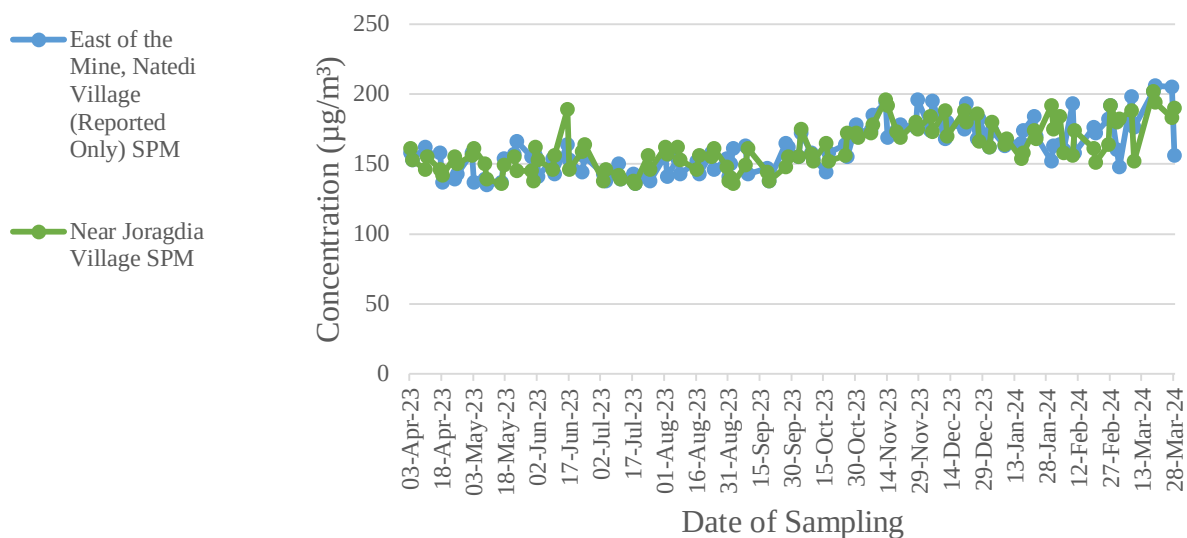
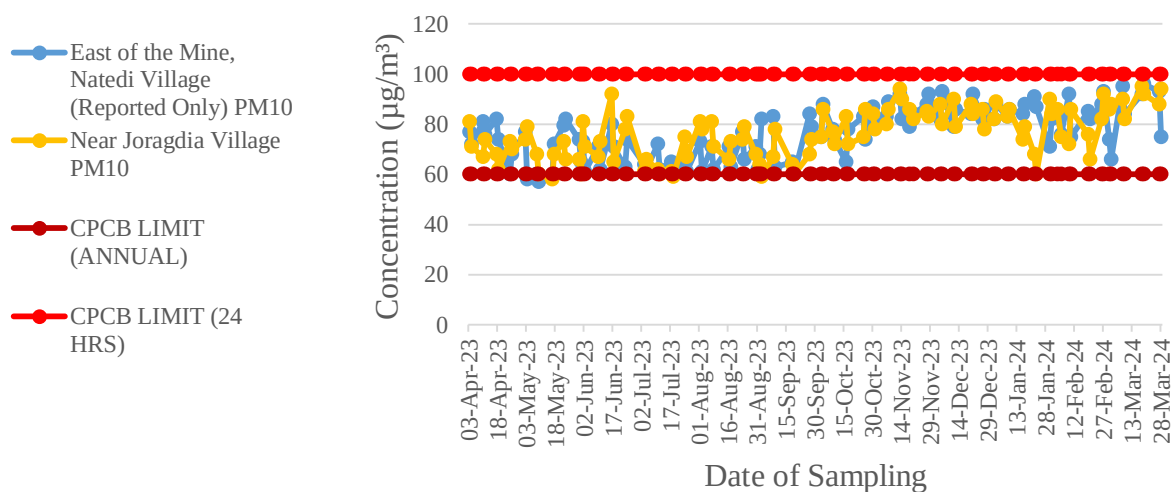
26-Aug-23	138	60	22	18.54	15.36
04-Sep-23	140	64	23	10.07	16.45
05-Sep-23	136	59	21	11.13	10.97
11-Sep-23	149	67	26	13.45	12.34
12-Sep-23	161	78	30	12.24	20.56
20-Sep-23	144	64	24	18.55	13.71
21-Sep-23	138	60	22	19.08	14.88
25-Sep-23	148	68	26	18.55	13.71
26-Sep-23	155	74	28	18.87	14.30
05-Oct-23	155	75	28	20.56	15.63
06-Oct-23	175	86	32	18.33	14.8
11-Oct-23	157	77	29	19.58	14.88
12-Oct-23	152	72	27	16.67	13.02
18-Oct-23	165	83	32	14.03	13.59
19-Oct-23	152	72	26	16.69	13.46
27-Oct-23	156	75	28	14.84	13.02
28-Oct-23	172	86	35	16.69	14.21
01-Nov-23	172	84	33	11.19	12.41
02-Nov-23	169	78	29	12.15	10.74
08-Nov-23	172	80	30	13.76	10.86
09-Nov-23	178	86	35	11.54	11.85
16-Nov-23	196	94	42	14.51	13.07
17-Nov-23	192	90	39	12.42	13.12
24-Nov-23	173	86	32	12.70	14.37
25-Nov-23	169	82	31	12.99	18.08
29-Nov-23	180	85	36	17.03	14.97
30-Nov-23	175	83	34	11.32	16.11
01-Dec-23	184	88	36	13.84	17.19
02-Dec-23	173	80	32	16.35	18.71
08-Dec-23	188	90	38	21.16	16.53
09-Dec-23	170	79	30	14.24	10.99
18-Dec-23	188	88	38	13.84	16.98
19-Dec-23	180	84	35	14.36	17.51
22-Dec-23	186	86	37	13.58	16.15
23-Dec-23	166	78	29	12.39	14.21
03-Jan-24	162	82	30	14.26	13.25
04-Jan-24	180	89	37	11.98	13.85
10-Jan-24	164	83	31	11.59	14.52
11-Jan-24	168	86	34	10.58	16.89
18-Jan-24	154	74	26	11.88	13.02
19-Jan-24	158	79	28	14.11	14.10
24-Jan-24	174	68	35	13.98	13.02
25-Jan-24	168	60	33	14.59	13.59
01-Feb-24	192	90	39	12.21	18.62
02-Feb-24	175	84	33	14.71	14.90
07-Feb-24	184	86	38	10.27	17.29
08-Feb-24	158	75	28	13.54	17.48
16-Feb-24	156	72	26	12.32	17.02
17-Feb-24	174	86	35	11.60	20.64
23-Feb-24	161	76	28	17.12	13.11
24-Feb-24	151	66	24	17.08	12.68
28-Feb-24	164	82	31	15.82	15.06
29-Feb-24	192	92	40	16.00	14.40

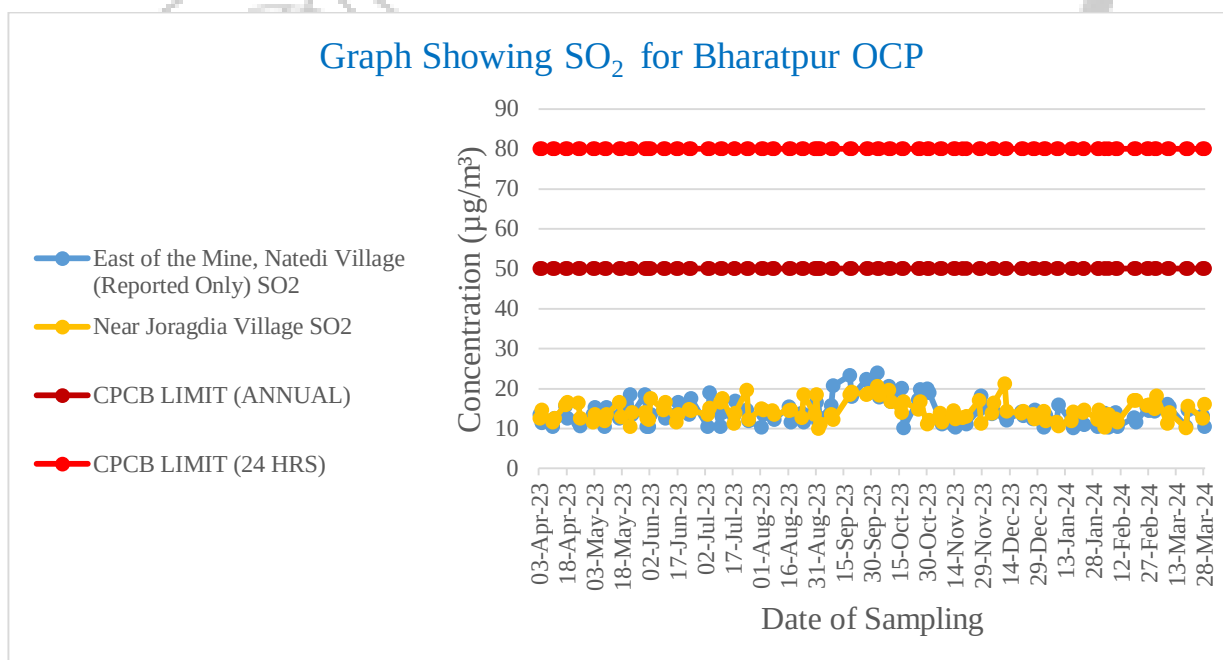
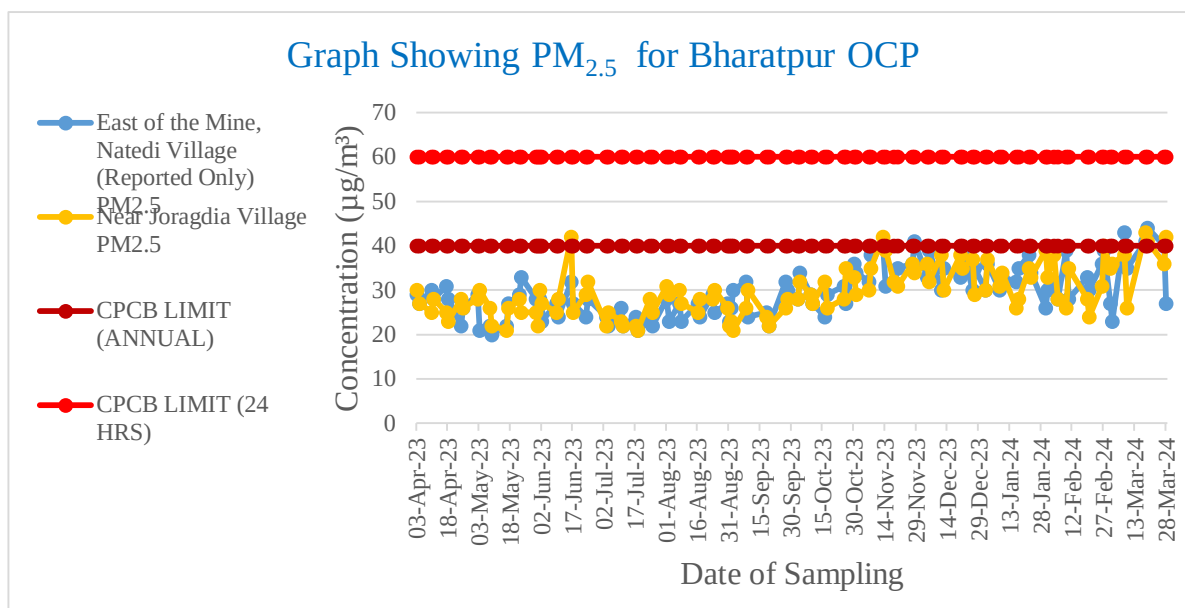
04-Mar-24	180	86	35	14.97	16.11
05-Mar-24	182	88	36	18.10	19.90
11-Mar-24	188	90	38	11.29	13.04
12-Mar-24	152	82	26	14.05	16.11
20-Mar-24	202	95	43	10.12	12.20
21-Mar-24	194	92	41	15.56	18.59
29-Mar-24	183	88	36	12.54	15.89
30-Mar-24	190	94	42	16.06	17.98
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	202	95	43	21.16	20.64
Minimum	136	58	21	10	11
Average	161.62	76.12	29.74	14.36	15.28
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

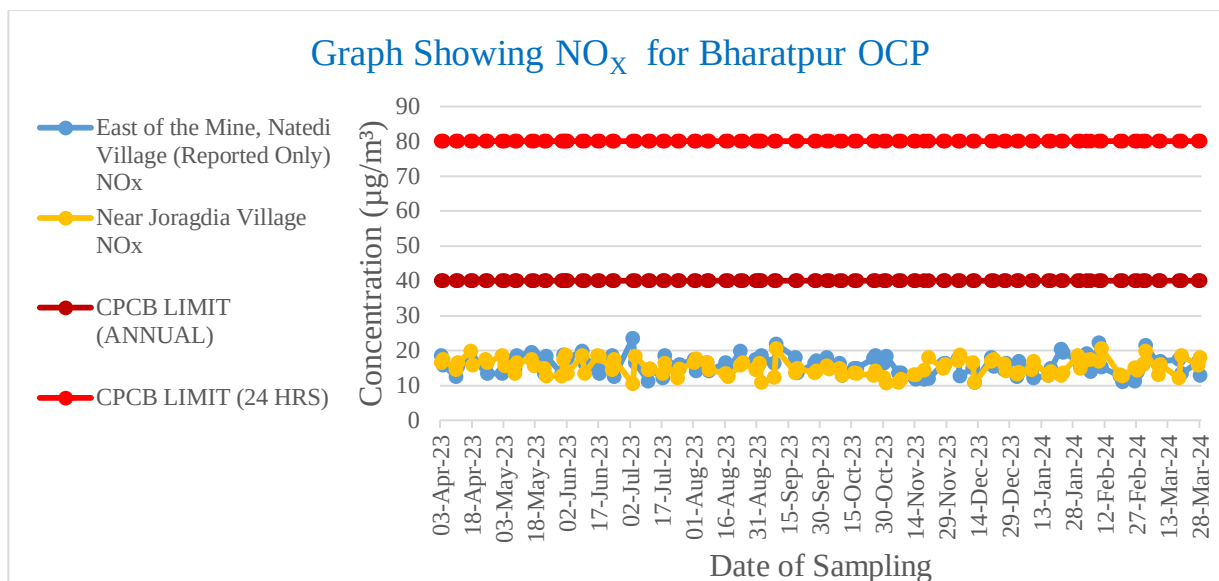


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Graph Showing SPM for Bharatpur OCP

Graph Showing PM_{10} for Bharatpur OCP





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Area: Lingraj Area

Project: Lingraj OCP

Table 11

Monitoring Station: IWSS

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	195	95	44	10.52	14.52
21-Apr-23	199	94	45	12.56	17.58
12-May-23	193	91	43	13.56	18.12
26-May-23	186	91	40	12.52	16.54
07-Jun-23	180	90	38	14.58	15.58
21-Jun-23	163	80	32	17.58	13.52
07-Jul-23	182	90	39	19.58	12.25
22-Jul-23	189	94	42	14.52	16.21
11-Aug-23	192	91	40	13.58	16.52
22-Aug-23	195	91	43	12.25	16.58
07-Sep-23	187	89	41	13.55	20.03
29-Sep-23	186	91	40	16.69	18.69
07-Oct-23	215	142	58	25.56	19.74
31-Oct-23	247	140	52	17.49	18.80
10-Nov-23	270	170	64	12.70	14.32
22-Nov-23	278	178	68	14.14	16.84
07-Dec-23	246	165	62	10.58	11.24
28-Dec-23	252	162	60	16.35	19.31
13-Jan-24	246	158	62	11.12	14.58
27-Jan-24	268	166	64	11.69	17.95
12-Feb-24	235	132	48	12.21	16.53
21-Feb-24	258	148	57	18.61	19.03
07-Mar-24	263	146	58	11.56	15.88
22-Mar-24	265	158	59	14.59	17.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	278	178	68	25.56	20.03
Minimum	163	80	32	11	11
Average	220.42	123.00	49.96	14.50	16.58
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Lingraj Area

Project: Lingraj OCP

Monitoring Station: Near Lingaraj to Dera Road

Table 12

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	181	87	38	14.52	18.57
22-Apr-23	180	86	38	14.58	18.57
12-May-23	185	88	40	14.52	15.24
26-May-23	200	94	45	17.85	19.85
07-Jun-23	172	86	35	15.10	13.55
22-Jun-23	184	91	39	11.52	17.58
07-Jul-23	176	87	36	12.26	14.78
22-Jul-23	201	96	45	13.56	14.52
11-Aug-23	172	86	38	13.52	14.52
22-Aug-23	186	88	40	11.35	14.58
09-Sep-23	202	96	45	13.66	11.96
29-Sep-23	190	93	42	12.72	21.93
07-Oct-23	195	134	54	21.16	21.15
31-Oct-23	253	145	56	19.01	18.51
10-Nov-23	275	176	68	15.58	16.84
22-Nov-23	281	182	70	11.90	14.86
07-Dec-23	255	175	67	11.15	14.49
28-Dec-23	264	175	67	14.35	16.54
13-Jan-24	276	177	71	14.23	16.59
27-Jan-24	286	174	72	14.38	21.15
12-Feb-24	256	158	59	14.33	18.62
21-Feb-24	271	172	65	13.56	13.11
07-Mar-24	242	125	49	14.60	16.89
23-Mar-24	276	168	63	12.28	14.74
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	286	182	72	21.16	21.93
Minimum	172	86	35	11	12
Average	223.29	126.63	51.75	14.24	16.63
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Lingraj Area

Project: Lingraj OCP

Monitoring Station: Near OB Dump no. 10 (North Side of the Mine)

Table 13

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

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
07-Apr-23	175	86	35	12.54	16.52
21-Apr-23	204	97	48	13.66	17.58
12-May-23	210	98	50	15.64	19.58
26-May-23	194	93	43	11.52	18.54
07-Jun-23	135	57	20	13.52	17.56
21-Jun-23	185	91	40	16.52	14.57
07-Jul-23	180	87	38	13.85	16.35
22-Jul-23	186	92	40	10.58	14.59
11-Aug-23	212	97	48	16.52	15.88
22-Aug-23	216	98	49	12.26	15.58
07-Sep-23	198	95	44	12.72	17.08
29-Sep-23	178	87	38	18.21	17.20
07-Oct-23	245	154	68	17.46	17.23
30-Oct-23	117	155	63	12.58	15.73
10-Nov-23	256	102	58	14.81	14.37
22-Nov-23	265	162	60	11.64	16.58
07-Dec-23	282	184	70	17.45	12.73
28-Dec-23	268	178	68	17.32	18.34
13-Jan-24	252	168	64	11.58	13.25
27-Jan-24	235	145	56	12.45	16.45
12-Feb-24	272	168	64	12.74	13.87
21-Feb-24	246	138	53	15.82	15.78
07-Mar-24	238	128	49	14.58	20.26
22-Mar-24	248	142	56	17.59	20.25
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	282	184	70	18.21	20.26
Minimum	117	57	20	11	13
Average	216.54	120.92	50.92	14.32	16.49
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Lingraj Area

Project: Lingraj OCP

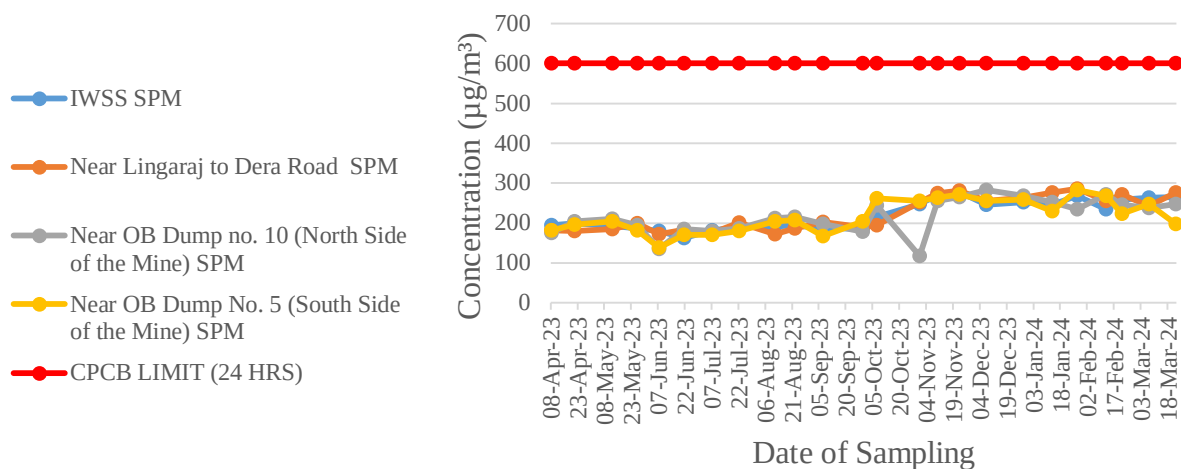
Table 14

Monitoring Station: Near OB Dump no. 5 (South Side of the Mine)

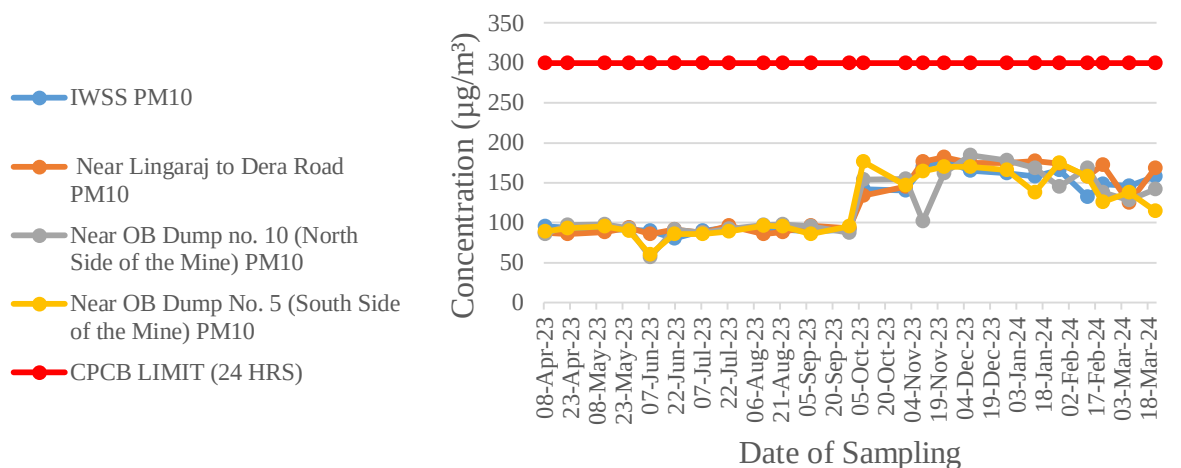
(All values are in $\mu\text{g}/\text{m}^3$)

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-23	182	89	38	14.52	15.85
21-Apr-23	196	93	44	16.58	12.58
12-May-23	204	95	47	11.52	15.35
26-May-23	181	90	39	12.52	17.58
07-Jun-23	138	60	22	11.98	12.56
21-Jun-23	171	86	35	11.00	14.52
07-Jul-23	171	86	35	11.28	13.56
22-Jul-23	180	89	38	11.23	13.54
11-Aug-23	204	96	45	17.58	16.58
22-Aug-23	208	95	47	13.58	16.89
07-Sep-23	168	86	34	13.15	19.44
28-Sep-23	204	95	45	20.23	15.70
07-Oct-23	262	176	75	17.87	14.30
30-Oct-23	256	147	58	15.37	15.67
10-Nov-23	264	164	61	12.70	11.43
22-Nov-23	272	170	65	11.32	16.11
07-Dec-23	255	170	66	17.84	15.69
28-Dec-23	258	166	64	18.36	19.84
13-Jan-24	230	138	55	12.58	18.57
27-Jan-24	282	175	70	11.44	14.95
12-Feb-24	268	158	61	13.54	16.15
21-Feb-24	224	126	47	15.42	17.21
07-Mar-24	248	138	56	14.52	17.58
22-Mar-24	198	115	44	12.56	19.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	282	176	75	20.23	19.84
Minimum	138	60	22	11	11
Average	217.67	120.96	49.63	14.11	15.88
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

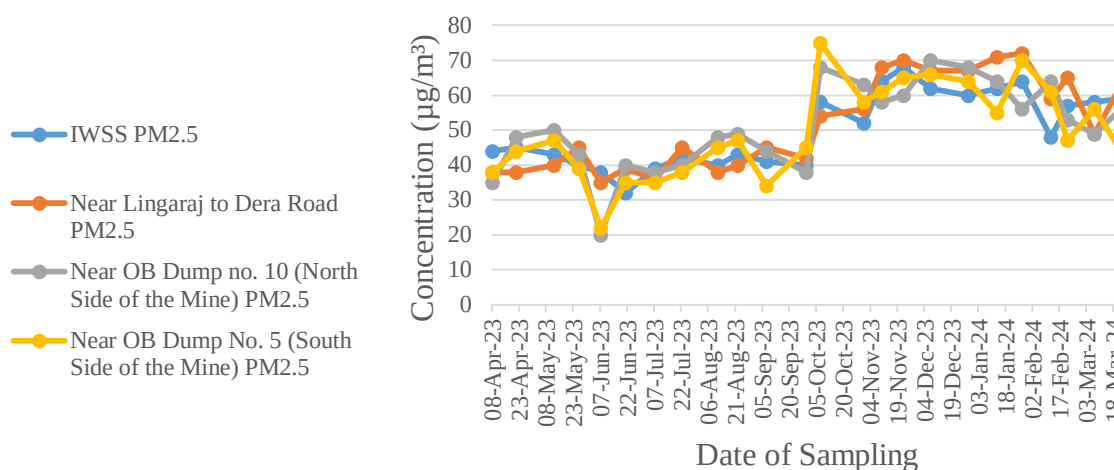
Graph Showing SPM for Lingaraj OCP



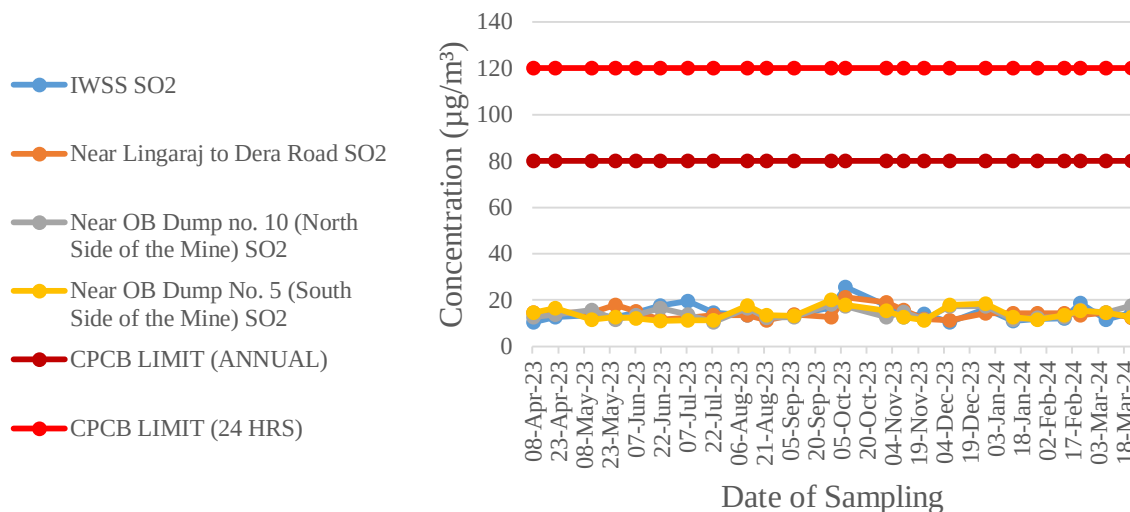
Graph Showing PM₁₀ for Lingaraj OCP

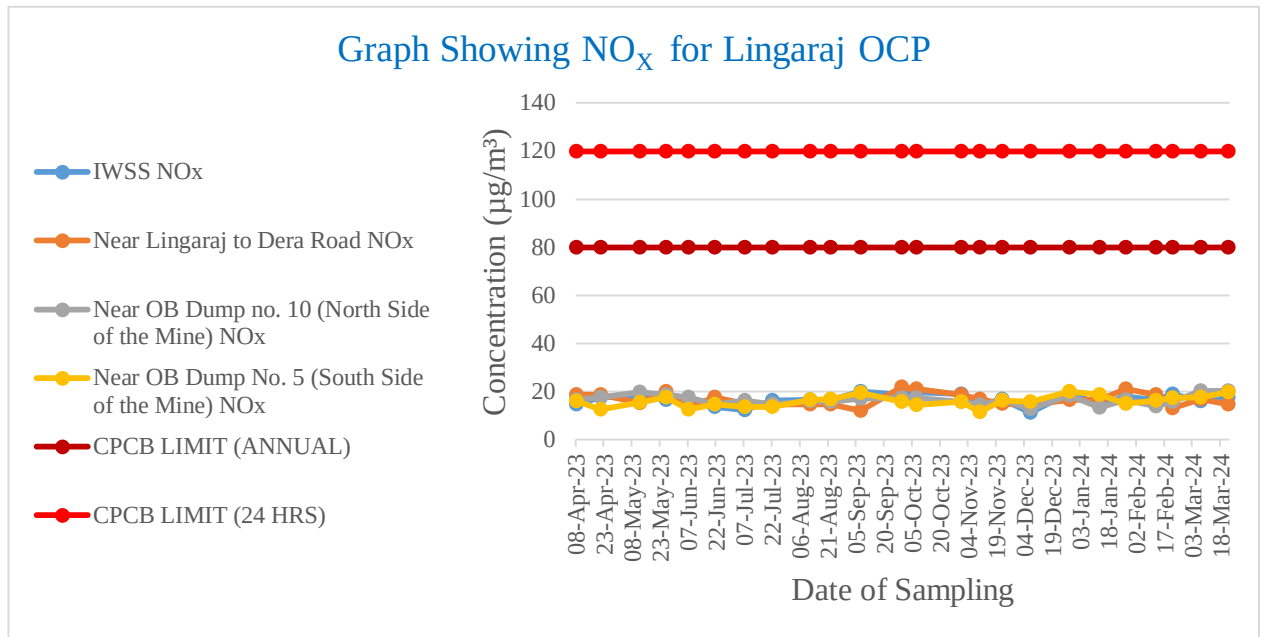


Graph Showing PM_{2.5} for Lingaraj OCP



Graph Showing SO₂ for Lingaraj OCP





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Area: Lingraj Area

Project: Lingraj OCP

Table 15

Monitoring Station: Near Kankili Community Centre (Reference)

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

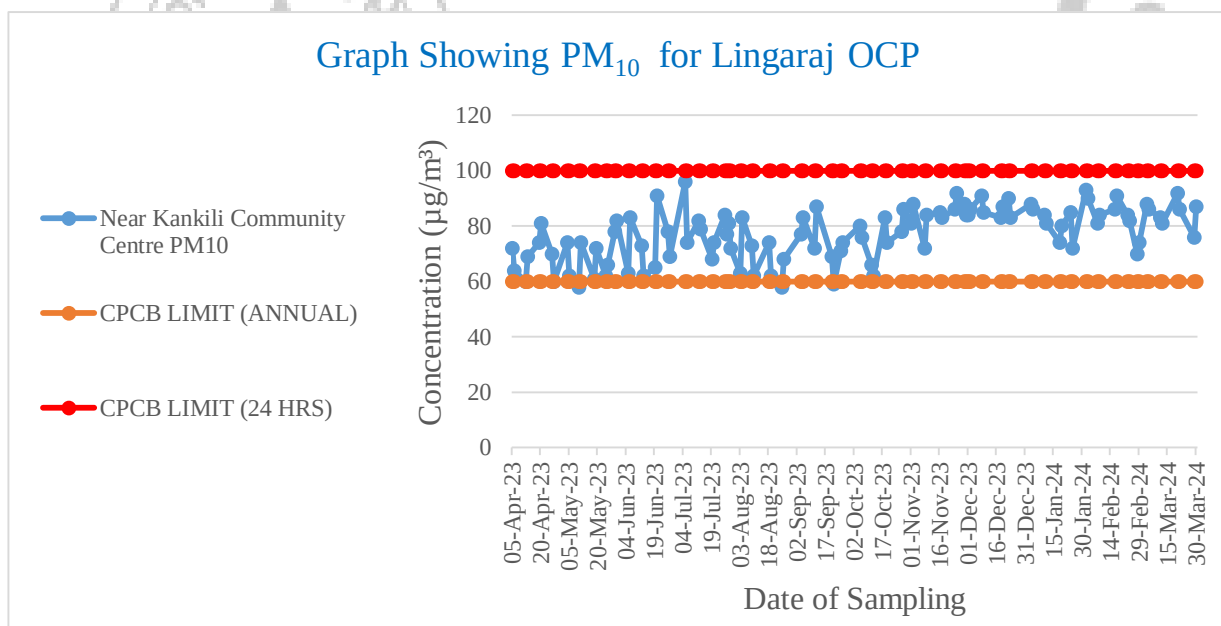
Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	156	72	28	13.56	17.58
06-Apr-23	144	64	24	15.56	16.58
12-Apr-23	138	60	22	12.88	19.56
13-Apr-23	150	69	26	13.56	17.58
19-Apr-23	155	74	28	12.58	15.85
20-Apr-23	161	81	30	11.56	16.58
26-Apr-23	150	70	26	12.56	15.57
27-Apr-23	137	60	22	13.54	16.58
04-May-23	156	74	28	18.56	15.42
05-May-23	144	62	24	11.52	15.12
10-May-23	136	58	20	13.52	18.54
11-May-23	155	74	28	13.52	19.58
18-May-23	137	61	22	12.56	15.64
19-May-23	153	72	27	15.65	18.54
24-May-23	141	62	23	12.64	16.54
25-May-23	146	66	25	11.85	19.85
29-May-23	158	78	29	12.58	15.54
30-May-23	164	82	32	15.42	19.85
05-Jun-23	144	63	24	12.22	17.96
06-Jun-23	165	83	32	11.52	14.56
12-Jun-23	155	73	28	18.54	17.58
13-Jun-23	143	62	24	16.28	16.54
19-Jun-23	145	65	25	14.58	16.69
20-Jun-23	165	91	32	12.75	19.83
26-Jun-23	158	78	29	16.54	13.58
27-Jun-23	149	69	26	14.55	18.57
05-Jul-23	145	96	25	14.96	16.54
06-Jul-23	155	74	28	14.56	17.65
12-Jul-23	166	82	33	11.23	13.54
13-Jul-23	161	79	30	10.58	14.59
19-Jul-23	149	68	26	15.46	17.56
20-Jul-23	155	74	28	16.85	14.28
26-Jul-23	165	84	32	13.56	17.54
27-Jul-23	158	77	29	12.24	15.64
28-Jul-23	161	81	30	17.58	13.54
29-Jul-23	153	72	27	13.11	14.85
03-Aug-23	143	63	24	12.52	15.58
04-Aug-23	165	83	32	14.52	17.58
09-Aug-23	155	73	28	13.52	16.55
10-Aug-23	143	62	26	13.58	16.52
18-Aug-23	156	74	28	13.54	16.54
19-Aug-23	143	62	24	10.52	17.58
25-Aug-23	136	58	20	16.58	16.58

26-Aug-23	147	68	25	14.75	20.25
04-Sep-23	158	77	29	12.80	15.63
05-Sep-23	164	83	32	15.58	18.92
11-Sep-23	153	72	27	15.37	21.93
12-Sep-23	168	87	34	12.14	17.95
20-Sep-23	149	69	26	22.26	15.76
21-Sep-23	138	59	22	21.33	20.56
25-Sep-23	152	71	27	28.06	20.03
26-Sep-23	158	74	29	23.23	21.46
05-Oct-23	164	80	32	22.73	16.45
06-Oct-23	155	76	28	23.89	23.85
11-Oct-23	146	66	25	12.12	20.19
12-Oct-23	140	62	23	20.83	19.88
18-Oct-23	164	83	32	19.73	16.45
19-Oct-23	154	74	27	15.77	19.88
27-Oct-23	159	78	29	20.74	20.19
28-Oct-23	169	86	34	14.84	22.72
01-Nov-23	174	81	33	13.60	14.37
02-Nov-23	182	88	37	11.38	16.58
08-Nov-23	162	72	26	15.87	16.84
09-Nov-23	174	84	32	12.42	17.30
16-Nov-23	178	85	34	14.14	16.84
17-Nov-23	170	83	32	11.90	12.58
24-Nov-23	185	86	38	15.42	13.72
25-Nov-23	188	92	40	11.59	12.53
29-Nov-23	180	88	37	13.56	14.97
30-Nov-23	176	84	35	14.14	16.21
01-Dec-23	174	84	32	13.99	13.25
02-Dec-23	180	86	35	11.52	18.11
08-Dec-23	190	91	38	13.67	17.35
09-Dec-23	174	85	33	15.06	15.87
18-Dec-23	170	83	32	12.36	14.51
19-Dec-23	184	87	36	12.35	14.64
22-Dec-23	190	90	38	11.40	13.14
23-Dec-23	168	83	31	13.37	15.87
03-Jan-24	180	88	37	11.28	14.65
04-Jan-24	170	86	34	14.88	18.69
10-Jan-24	165	84	32	14.74	16.89
11-Jan-24	162	81	30	12.98	14.58
18-Jan-24	154	74	26	10.48	15.08
19-Jan-24	162	80	29	10.02	19.88
24-Jan-24	168	85	33	13.37	19.31
25-Jan-24	155	72	27	10.94	20.74
01-Feb-24	196	93	41	11.94	19.76
02-Feb-24	186	90	38	12.50	17.90
07-Feb-24	162	81	30	14.60	12.16
08-Feb-24	166	84	32	11.94	14.25
16-Feb-24	186	86	38	15.82	15.30
17-Feb-24	194	91	40	13.01	20.16
23-Feb-24	170	84	32	12.08	10.93
24-Feb-24	168	82	30	10.24	15.61
28-Feb-24	156	70	25	14.52	18.26
29-Feb-24	162	74	27	15.12	20.64

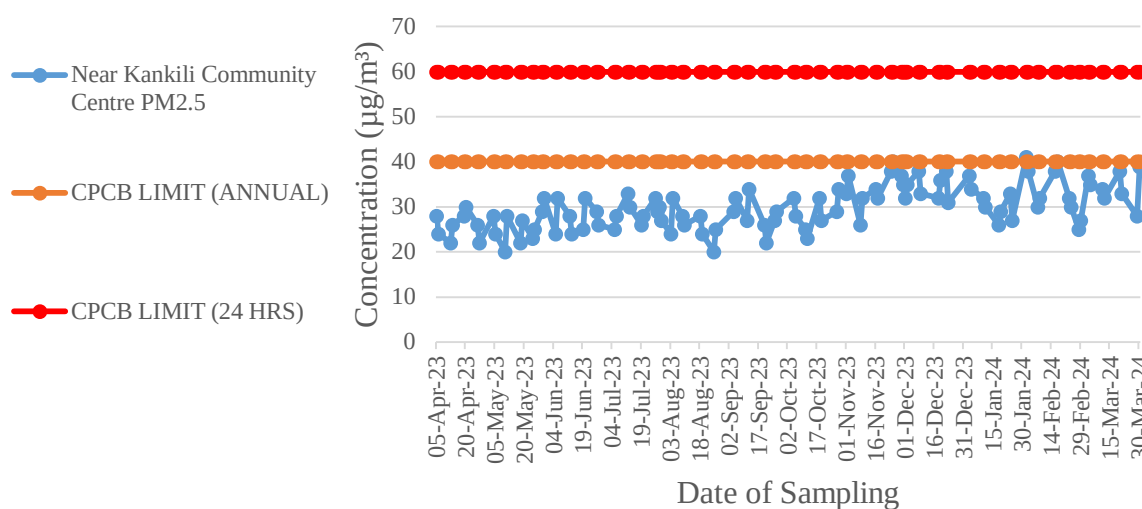
04-Mar-24	184	88	37	12.20	15.58
05-Mar-24	178	86	35	11.52	12.56
11-Mar-24	172	83	34	10.26	13.57
12-Mar-24	119	81	32	14.58	16.85
20-Mar-24	188	92	38	11.26	16.98
21-Mar-24	178	86	33	13.56	15.58
29-Mar-24	165	76	28	18.59	16.54
30-Mar-24	188	87	39	11.69	17.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	196	96	41	28.06	23.85
Minimum	119	58	20	10	11
Average	161.39	77.37	29.91	14.26	16.88
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



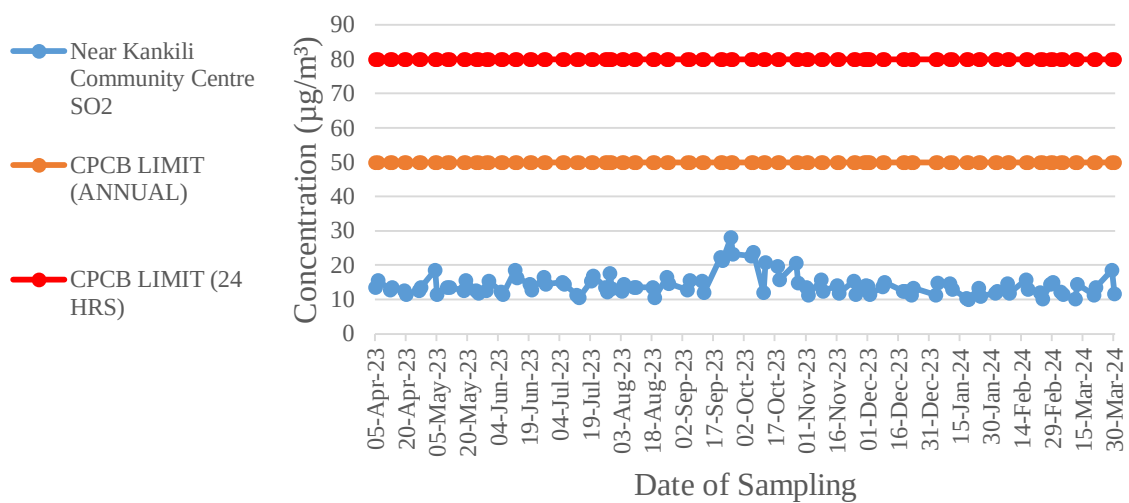
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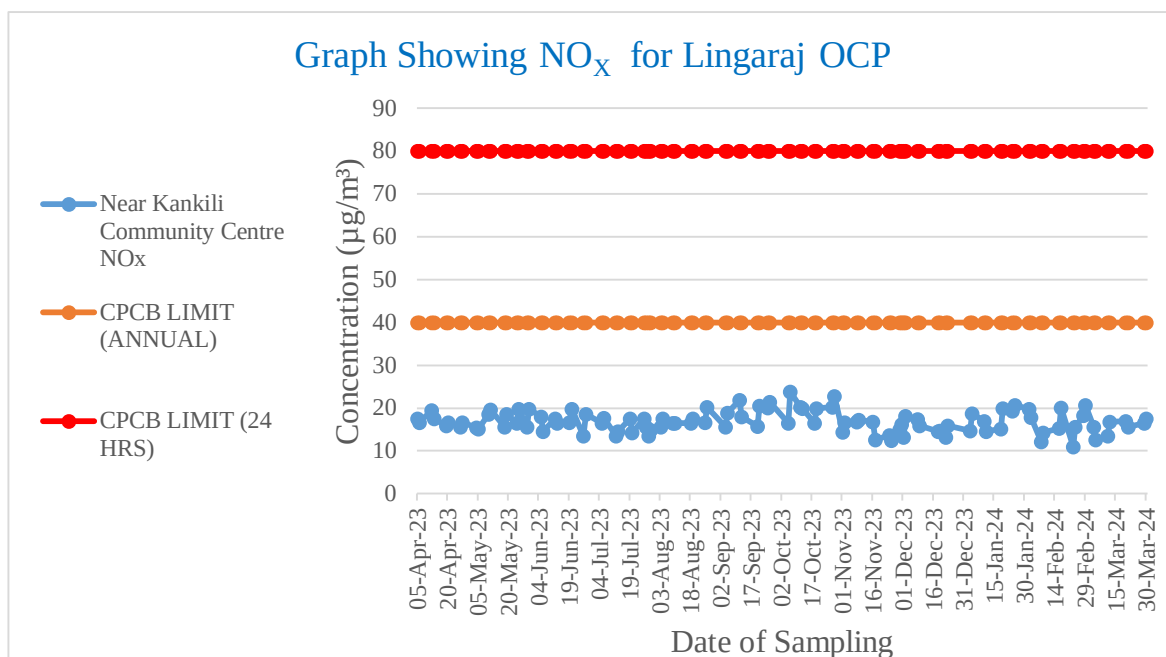


Graph Showing PM_{2.5} for Lingaraj OCP



Graph Showing SO₂ for Lingaraj OCP





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Area: Kaniha Area

Project: Kaniha OCP

Table 16

Monitoring Station: Near External OB Dump Jamania

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	192	94	43	10.74	13.58
22-Apr-23	198	95	44	15.56	19.23
13-May-23	190	89	42	16.58	13.56
27-May-23	202	95	46	14.52	18.65
08-Jun-23	191	93	42	16.58	15.58
22-Jun-23	188	91	42	13.56	17.58
08-Jul-23	172	86	35	13.56	17.54
31-Jul-23	204	96	45	14.56	11.52
14-Aug-23	191	93	42	12.56	16.12
28-Aug-23	193	90	42	14.98	16.58
13-Sep-23	198	96	44	11.61	16.45
22-Sep-23	210	95	47	21.77	15.73
13-Oct-23	186	140	56	19.44	14.39
20-Oct-23	241	133	44	13.91	14.39
04-Nov-23	255	156	58	11.59	12.53
23-Nov-23	261	167	62	16.02	12.41
13-Dec-23	234	154	56	14.24	10.41
27-Dec-23	235	160	59	17.47	18.94
06-Jan-24	240	146	58	12.58	16.32
29-Jan-24	225	136	52	10.21	15.02
13-Feb-24	268	166	63	13.50	14.95
22-Feb-24	264	158	60	11.07	12.68
13-Mar-24	265	152	58	12.18	13.27
23-Mar-24	224	124	48	12.26	13.56
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	268	167	63	21.77	19.23
Minimum	172	86	35	10	10
Average	217.79	121.04	49.50	14.21	15.04
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Kaniha Area

Project: Kaniha OCP

Table 17

Monitoring Station: Near Jatra Padia, Jarada

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	184	92	40	15.75	15.56
22-Apr-23	202	97	46	13.99	15.40
13-May-23	207	96	48	12.56	18.57
27-May-23	146	66	25	15.18	18.55
08-Jun-23	180	87	38	10.52	13.12
22-Jun-23	210	97	48	12.51	11.56
08-Jul-23	182	88	39	16.85	14.28
31-Jul-23	192	93	41	15.10	14.58
14-Aug-23	181	87	38	10.52	14.78
28-Aug-23	214	96	48	13.56	12.56
13-Sep-23	178	86	37	12.10	12.16
22-Sep-23	202	93	45	21.20	18.02
13-Oct-23	172	86	35	19.58	17.23
20-Oct-23	245	140	47	20.14	17.23
04-Nov-23	268	168	64	11.19	14.37
22-Nov-23	275	173	66	13.25	14.91
13-Dec-23	242	156	59	11.89	13.88
27-Dec-23	242	163	62	19.34	20.45
06-Jan-24	242	165	61	14.58	18.56
29-Jan-24	236	148	55	11.45	17.23
13-Feb-24	246	148	55	11.29	12.89
22-Feb-24	270	171	64	12.65	15.52
13-Mar-24	238	118	47	14.79	15.22
23-Mar-24	246	154	58	16.58	17.45
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	275	173	66	21.2	20.45
Minimum	146	66	25	11	12
Average	216.67	119.50	48.58	14.44	15.59
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Kaniha Area

Project: Kaniha OCP

Table 18

Monitoring Station: Near Project Office

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	180	66	38	12.56	14.56
22-Apr-23	181	87	38	11.54	16.58
13-May-23	201	93	45	15.04	16.25
27-May-23	175	85	36	15.59	19.41
08-Jun-23	186	88	40	13.56	17.58
22-Jun-23	196	95	44	13.52	16.54
08-Jul-23	196	95	44	14.52	16.21
31-Jul-23	208	98	47	13.45	14.58
14-Aug-23	186	90	42	14.52	13.56
28-Aug-23	198	93	44	13.89	17.84
13-Sep-23	185	91	40	14.47	15.63
22-Sep-23	192	93	43	13.25	21.93
13-Oct-23	190	147	65	13.53	19.31
20-Oct-23	230	130	40	22.81	22.21
10-Nov-23	256	160	58	16.33	17.64
22-Nov-23	266	166	62	13.49	12.00
07-Dec-23	260	178	68	19.23	13.30
28-Dec-23	274	182	70	18.98	16.35
06-Jan-24	255	172	64	10.25	12.35
29-Jan-24	292	182	74	15.18	21.15
13-Feb-24	242	146	53	15.82	17.48
21-Feb-24	262	156	59	13.65	16.10
13-Mar-24	246	135	54	14.58	17.58
22-Mar-24	193	96	40	11.52	14.59
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	292	182	74	22.81	22.21
Minimum	175	66	36	10	12
Average	218.75	121.83	50.33	14.64	16.70
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Kaniha Area

Project: Kaniha OCP

Table 19

Monitoring Station: New Time Office (Near Z-Patch)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	187	62	42	10.52	15.87
22-Apr-23	195	94	43	13.52	12.58
13-May-23	186	89	40	14.25	15.25
27-May-23	190	91	42	10.52	15.08
08-Jun-23	194	94	43	11.59	15.85
22-Jun-23	182	86	38	14.54	12.00
08-Jul-23	202	98	46	13.56	14.52
31-Jul-23	203	96	45	16.58	17.58
14-Aug-23	194	88	40	13.52	16.52
28-Aug-23	185	89	40	16.00	14.52
13-Sep-23	195	94	43	14.16	19.44
22-Sep-23	186	89	40	24.28	20.19
13-Oct-23	198	144	58	22.73	19.44
20-Oct-23	235	132	43	14.16	19.44
10-Nov-23	248	148	54	12.99	16.21
22-Nov-23	256	155	58	11.59	13.12
07-Dec-23	284	182	70	15.06	15.87
28-Dec-23	282	188	75	17.63	19.45
06-Jan-24	286	182	74	12.22	13.58
29-Jan-24	273	172	66	11.44	19.44
13-Feb-24	253	158	59	11.94	15.77
22-Feb-24	254	148	56	12.94	10.73
13-Mar-24	236	96	48	10.52	16.58
22-Mar-24	236	128	49	16.59	11.56
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	286	188	75	24.28	20.19
Minimum	182	62	38	11	11
Average	222.50	120.96	50.50	14.29	15.86
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Kaniha Area

Project: Kaniha OCP

Table 20

Monitoring Station: North of the Mine

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	205	98	47	14.65	16.89
22-Apr-23	205	96	47	12.56	14.58
13-May-23	167	82	34	13.52	18.54
27-May-23	194	93	43	19.58	15.24
08-Jun-23	176	85	36	13.52	16.56
22-Jun-23	194	94	44	11.56	20.21
08-Jul-23	185	92	40	12.24	15.64
31-Jul-23	194	94	43	16.59	28.59
14-Aug-23	175	85	36	18.32	20.24
28-Aug-23	167	82	34	13.24	17.58
13-Sep-23	180	87	38	15.37	21.93
22-Sep-23	198	92	44	18.72	16.45
13-Oct-23	226	158	62	17.99	16.45
20-Oct-23	248	143	54	17.71	15.70
04-Nov-23	250	150	55	12.43	12.00
23-Nov-23	259	155	58	11.54	11.85
13-Dec-23	258	168	64	18.26	14.51
29-Dec-23	258	174	66	18.16	20.36
06-Jan-24	282	180	72	10.58	15.58
29-Jan-24	258	158	61	13.47	15.70
13-Feb-24	276	172	66	13.80	13.68
22-Feb-24	276	176	68	10.76	11.15
13-Mar-24	276	164	65	18.68	17.27
23-Mar-24	238	144	52	13.59	16.85
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	282	180	72	19.58	28.59
Minimum	167	82	34	11	11
Average	222.71	125.92	51.21	14.87	16.81
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Kaniha Area

Project: Kaniha OCP

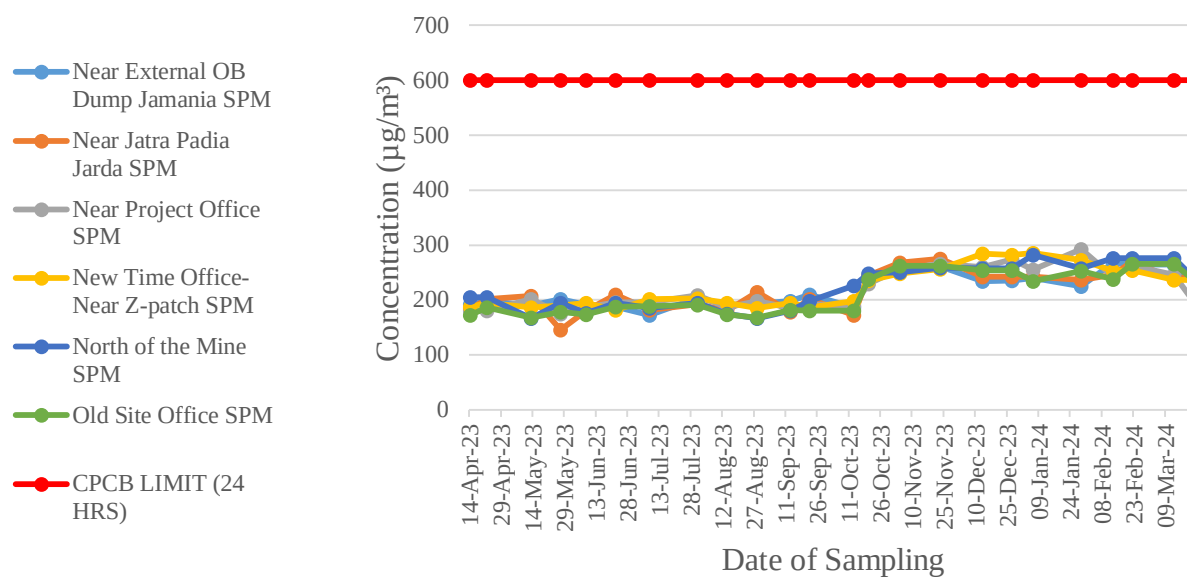
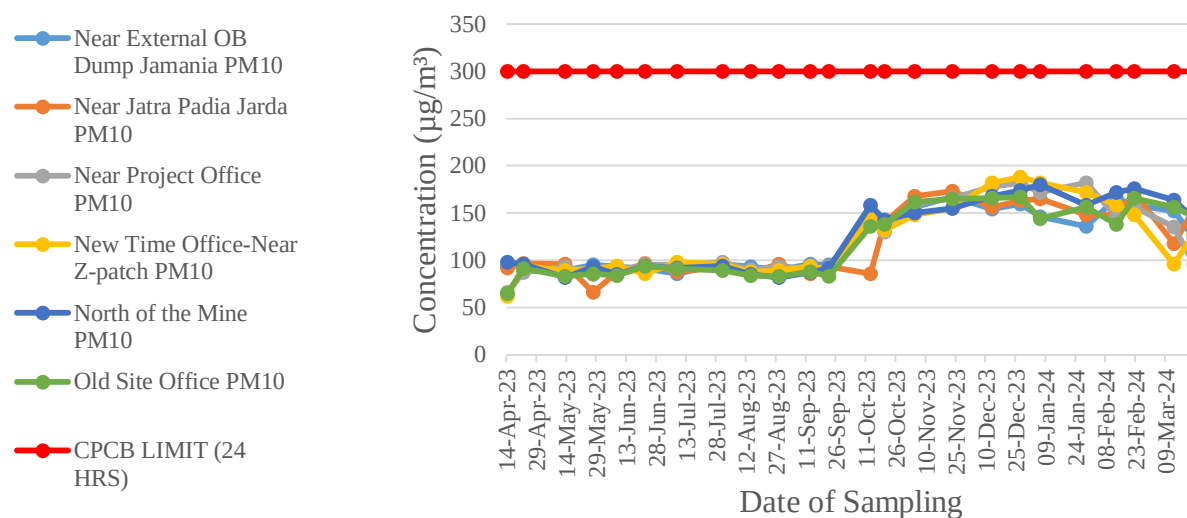
Table 21

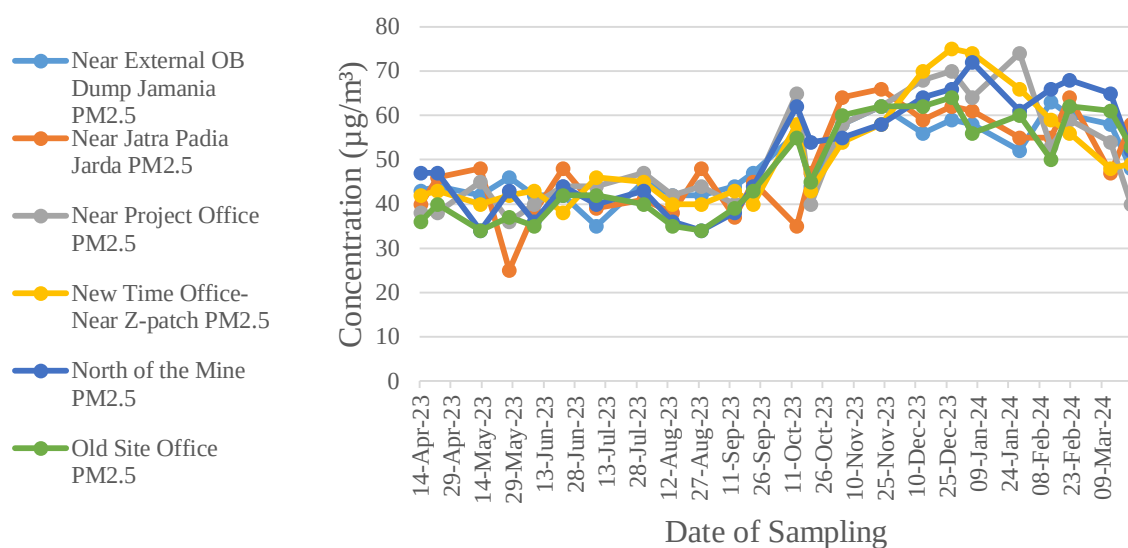
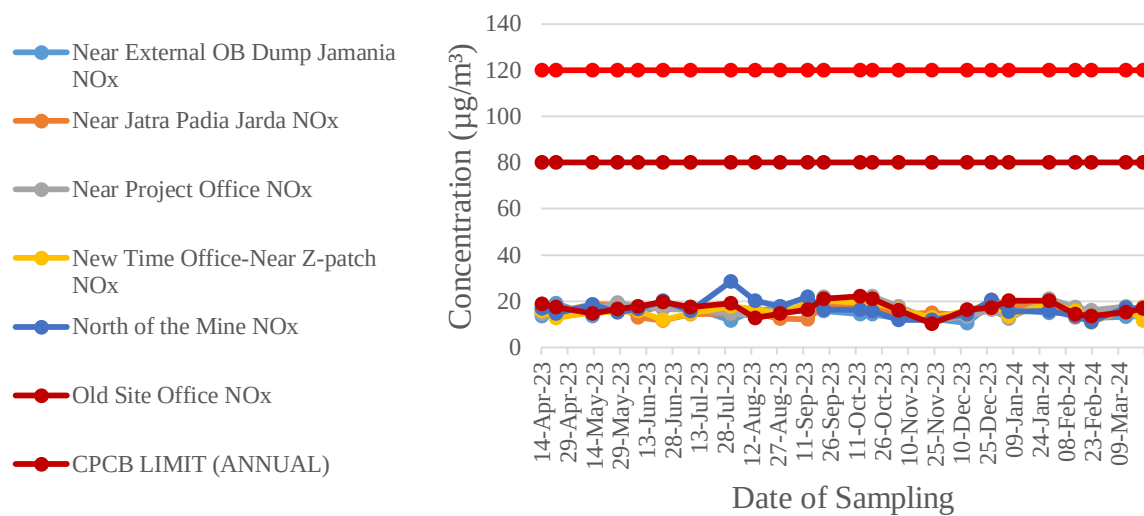
Monitoring Station: Old Site Office

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

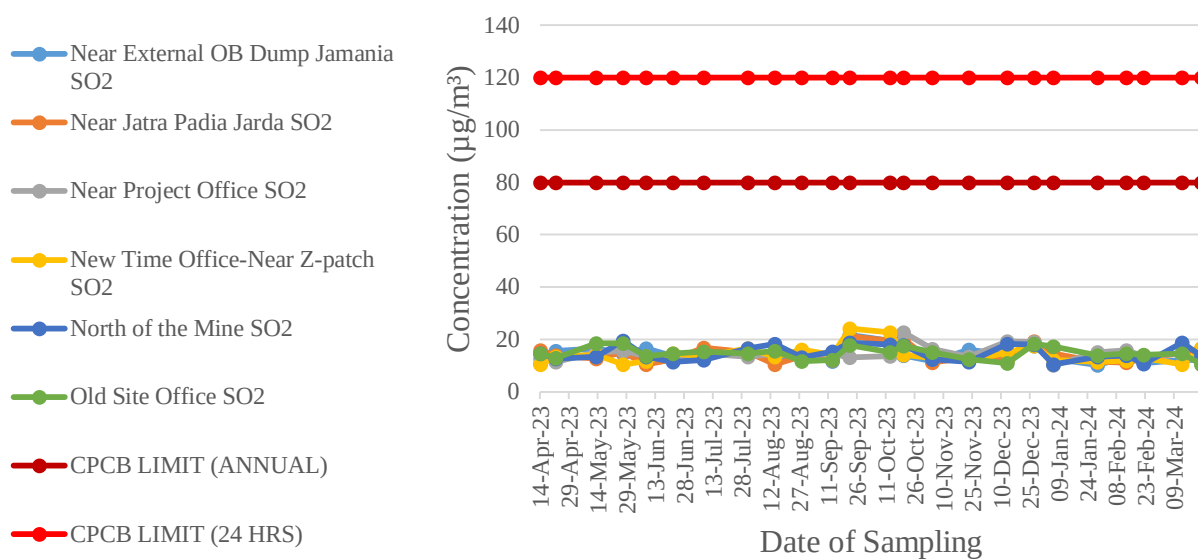
Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
08-Apr-23	172	65	36	14.58	18.74
22-Apr-23	186	91	40	12.95	17.54
13-May-23	168	83	34	18.58	14.58
27-May-23	178	86	37	18.56	16.58
08-Jun-23	173	84	35	13.56	17.58
22-Jun-23	188	94	42	14.74	19.58
08-Jul-23	189	91	42	15.46	17.56
31-Jul-23	191	89	40	14.52	19.00
14-Aug-23	173	84	35	15.57	12.58
28-Aug-23	168	83	34	11.58	14.58
13-Sep-23	182	88	39	12.19	16.45
22-Sep-23	181	83	43	17.71	20.94
13-Oct-23	180	136	55	15.00	22.21
20-Oct-23	238	138	45	17.49	21.15
04-Nov-23	262	162	60	15.18	16.11
22-Nov-23	262	165	62	12.42	10.14
13-Dec-23	254	166	62	10.88	16.41
28-Dec-23	254	167	64	18.34	17.12
06-Jan-24	234	144	56	17.32	20.22
29-Jan-24	253	156	60	13.98	20.19
13-Feb-24	238	138	50	14.60	14.25
21-Feb-24	266	166	62	14.09	13.51
13-Mar-24	266	156	61	14.50	15.31
22-Mar-24	234	146	53	10.52	16.74
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	266	167	64	18.58	22.21
Minimum	168	65	34	11	10
Average	212.08	119.21	47.79	14.76	17.04
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Graph Showing SPM for Kaniha OCP

Graph Showing PM₁₀ for Kaniha OCP

Graph Showing PM_{2.5} for Kaniha OCPGraph Showing NO_x for Kaniha OCP

Graph Showing SO₂ for Kaniha OCP



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Area: Kaniha Area

Project: Kaniha OCP

Table 22

Monitoring Station: South of Proposed Quarry Limit of KOCP (Reference)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	199	96	45	12.52	15.05
04-Apr-23	185	89	40	10.52	15.45
10-Apr-23	144	63	24	14.56	13.56
11-Apr-23	149	69	26	12.58	17.58
17-Apr-23	154	71	27	14.85	15.55
18-Apr-23	149	67	25	16.58	12.54
24-Apr-23	138	60	22	15.85	13.56
25-Apr-23	150	69	26	12.56	15.66
02-May-23	154	73	28	12.58	17.32
03-May-23	144	63	24	10.25	15.24
08-May-23	159	76	29	11.52	15.28
09-May-23	146	69	25	13.54	12.52
16-May-23	149	69	26	18.54	11.52
17-May-23	155	73	28	15.58	19.85
22-May-23	162	79	30	16.54	12.52
23-May-23	164	81	32	18.57	15.54
29-May-23	147	66	25	12.52	16.58
30-May-23	142	62	23	11.52	18.54
01-Jun-23	144	65	24	17.58	12.58
02-Jun-23	136	62	21	15.89	19.12
09-Jun-23	139	64	23	13.67	16.85
10-Jun-23	135	61	20	13.99	17.52
16-Jun-23	146	66	25	13.56	15.54
17-Jun-23	153	70	27	13.52	14.55
23-Jun-23	136	58	21	10.56	13.56
24-Jun-23	148	68	26	13.52	17.85
03-Jul-23	155	74	28	17.58	13.54
04-Jul-23	150	68	26	13.11	14.85
10-Jul-23	166	84	33	13.45	14.58
11-Jul-23	144	63	24	16.58	17.58
17-Jul-23	155	74	28	16.23	14.58
18-Jul-23	144	63	24	17.65	13.49
24-Jul-23	138	58	22	10.78	12.56
25-Jul-23	146	68	25	13.59	16.85
01-Aug-23	144	65	24	12.52	14.58
02-Aug-23	152	62	27	12.52	17.58
07-Aug-23	139	64	23	14.52	12.56
08-Aug-23	135	61	22	16.52	17.85
16-Aug-23	155	73	28	10.52	14.58
17-Aug-23	144	63	24	13.69	17.58
23-Aug-23	158	76	29	10.58	13.75
24-Aug-23	145	69	25	15.35	10.52
01-Sep-23	157	77	29	15.58	19.74

02-Sep-23	152	71	27	15.18	13.46
08-Sep-23	150	68	26	11.61	11.44
09-Sep-23	155	74	28	11.59	15.76
18-Sep-23	142	66	24	23.37	18.09
19-Sep-23	160	81	30	23.27	17.20
27-Sep-23	168	85	34	19.08	19.58
28-Sep-23	156	75	28	12.24	18.92
29-Sep-23	137	61	22	15.18	13.46
30-Sep-23	141	64	23	11.66	17.23
03-Oct-23	136	75	28	20.63	16.45
04-Oct-23	140	61	23	21.72	16.45
09-Oct-23	144	63	24	21.69	18.80
10-Oct-23	155	75	28	25.00	18.09
16-Oct-23	164	82	30	20.67	16.45
17-Oct-23	168	85	34	15.37	17.23
25-Oct-23	156	76	28	10.62	17.95
26-Oct-23	174	88	36	12.06	15.08
30-Oct-23	163	81	31	20.03	13.98
31-Oct-23	155	76	28	15.00	17.88
06-Nov-23	170	78	30	15.18	12.53
07-Nov-23	174	82	33	12.41	13.72
13-Nov-23	168	78	29	12.40	15.68
14-Nov-23	176	84	35	11.90	12.58
18-Nov-23	196	90	41	18.73	14.41
20-Nov-23	185	86	38	15.87	13.10
27-Nov-23	178	84	36	15.42	14.37
28-Nov-23	170	88	31	13.65	14.41
04-Dec-23	186	88	37	20.44	18.11
05-Dec-23	180	84	35	11.80	21.81
11-Dec-23	174	81	32	13.53	10.99
12-Dec-23	166	78	29	14.37	13.25
20-Dec-23	187	88	38	13.32	15.41
21-Dec-23	178	83	34	12.31	14.14
26-Dec-23	173	81	32	11.25	13.54
27-Dec-23	168	79	30	13.48	15.54
01-Jan-24	152	70	26	15.58	17.58
02-Jan-24	164	84	32	12.02	15.78
08-Jan-24	162	81	30	10.58	13.96
09-Jan-24	168	88	34	11.89	13.12
16-Jan-24	160	76	28	10.90	17.27
17-Jan-24	156	74	27	10.93	16.45
22-Jan-24	165	85	32	10.92	18.80
23-Jan-24	178	88	36	12.58	18.09
30-Jan-24	164	83	31	10.93	12.71
31-Jan-24	185	91	38	10.65	19.58
03-Feb-24	190	94	39	10.35	14.63
05-Feb-24	195	95	42	11.93	13.91
09-Feb-24	185	90	38	11.38	16.49
10-Feb-24	163	78	30	12.49	15.30
19-Feb-24	188	89	38	11.71	13.33
20-Feb-24	178	86	34	10.44	14.64
26-Feb-24	191	91	39	12.96	12.49
27-Feb-24	195	92	40	12.97	12.02

01-Mar-24	196	87	41	13.58	18.01
02-Mar-24	183	85	37	21.59	18.51
08-Mar-24	169	84	32	10.85	12.58
09-Mar-24	165	82	30	15.16	18.13
18-Mar-24	196	87	34	14.13	19.58
19-Mar-24	183	80	29	13.52	18.57
27-Mar-24	169	84	38	16.93	16.54
28-Mar-24	165	82	36	17.58	20.56
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	199	96	45	25	21.81
Minimum	135	58	20	10	11
Average	161.19	76.12	29.77	14.33	15.61
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Kaniha Area

Project: Kaniha OCP

Table 23

Monitoring Station: South West of the Mine (Reference)

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

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
03-Apr-23	147	68	25	10.52	17.58
04-Apr-23	158	76	29	15.54	14.58
10-Apr-23	143	62	24	12.54	17.52
11-Apr-23	153	71	27	16.58	14.88
17-Apr-23	168	83	34	12.54	17.58
18-Apr-23	156	73	28	16.58	19.56
24-Apr-23	143	63	24	12.56	15.65
25-Apr-23	158	75	29	14.58	17.58
02-May-23	150	68	26	10.52	15.52
03-May-23	152	70	27	12.52	18.54
08-May-23	160	80	30	10.52	17.54
09-May-23	146	66	25	13.52	15.85
16-May-23	143	64	24	10.52	14.52
17-May-23	137	60	22	18.54	18.56
22-May-23	135	57	20	11.52	13.25
23-May-23	150	68	26	13.56	18.07
30-May-23	141	62	23	12.56	19.58
31-May-23	163	83	32	18.54	15.52
01-Jun-23	146	67	25	10.52	15.98
02-Jun-23	143	63	24	18.75	15.64
09-Jun-23	149	69	26	16.59	15.58
10-Jun-23	141	62	23	13.56	12.56
16-Jun-23	155	73	28	17.56	15.54
17-Jun-23	162	79	30	13.52	16.54
23-Jun-23	146	66	25	13.52	18.56
24-Jun-23	136	57	20	11.23	17.98
03-Jul-23	154	70	27	14.52	19.00
04-Jul-23	138	60	22	16.59	25.59
10-Jul-23	158	69	26	15.10	14.58
11-Jul-23	143	62	24	14.56	11.52
17-Jul-23	145	66	25	13.54	16.54
18-Jul-23	159	76	29	12.50	17.85
24-Jul-23	143	62	24	11.52	14.95
25-Jul-23	152	71	27	13.52	10.58
01-Aug-23	146	67	25	14.58	13.52
02-Aug-23	143	63	24	10.88	16.59
07-Aug-23	149	69	26	12.56	10.52
08-Aug-23	141	62	23	13.58	17.89
16-Aug-23	149	68	26	17.58	16.58
17-Aug-23	153	70	27	13.52	19.52
23-Aug-23	161	80	30	11.58	14.58
24-Aug-23	146	66	25	17.58	16.58
01-Sep-23	145	66	25	14.16	18.69
02-Sep-23	153	70	27	15.37	22.72

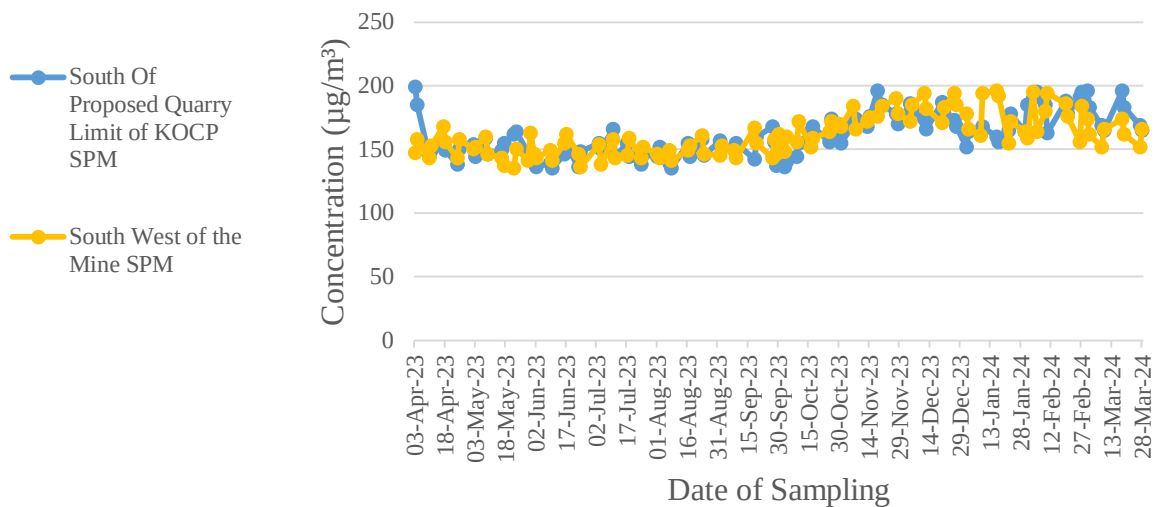
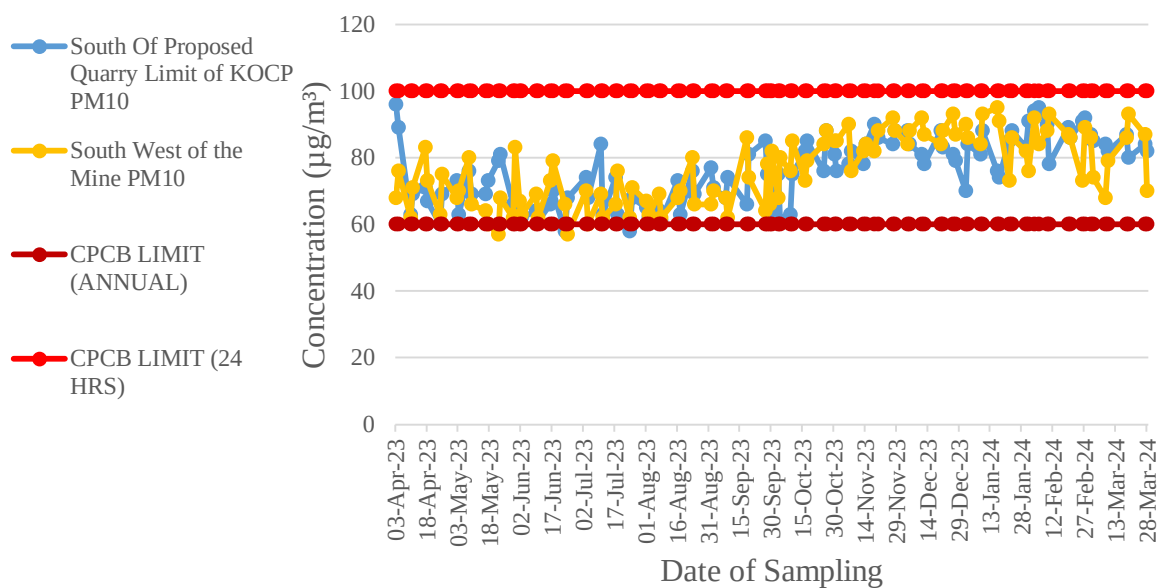
08-Sep-23	149	68	26	12.72	26.63
09-Sep-23	143	62	24	13.55	14.30
18-Sep-23	167	86	34	22.79	20.37
19-Sep-23	155	74	28	19.22	14.95
27-Sep-23	143	64	24	17.16	13.71
28-Sep-23	158	78	29	20.23	16.45
29-Sep-23	146	66	25	17.42	15.73
30-Sep-23	162	82	30	10.16	13.59
03-Oct-23	148	68	25	13.04	12.16
04-Oct-23	160	80	29	19.32	17.88
09-Oct-23	156	76	28	16.20	13.02
10-Oct-23	172	85	12	17.99	14.88
16-Oct-23	152	73	27	13.91	13.02
17-Oct-23	159	79	29	15.97	13.59
25-Oct-23	164	84	32	13.45	14.39
26-Oct-23	172	88	36	20.67	16.45
30-Oct-23	170	85	34	19.48	22.62
31-Oct-23	168	85	33	11.13	15.02
06-Nov-23	184	90	38	16.01	10.14
07-Nov-23	166	76	28	11.04	14.91
13-Nov-23	172	82	31	12.97	11.33
14-Nov-23	175	84	33	10.28	12.41
18-Nov-23	176	82	34	11.25	10.60
20-Nov-23	184	88	38	10.58	13.72
27-Nov-23	190	92	40	11.83	13.10
28-Nov-23	178	88	36	12.43	10.86
04-Dec-23	172	84	32	22.53	15.78
05-Dec-23	185	88	36	10.17	15.20
11-Dec-23	194	92	40	16.74	10.41
12-Dec-23	182	87	35	13.21	16.41
20-Dec-23	171	84	32	14.36	16.45
21-Dec-23	183	88	36	12.34	15.21
26-Dec-23	194	93	40	15.31	16.64
27-Dec-23	185	87	36	14.38	15.64
01-Jan-24	178	90	37	14.89	17.25
02-Jan-24	166	86	33	10.22	13.01
08-Jan-24	161	84	32	13.58	16.58
09-Jan-24	194	93	40	10.52	13.25
16-Jan-24	196	95	42	11.69	14.21
17-Jan-24	192	91	39	12.35	13.02
22-Jan-24	155	73	27	11.69	15.70
23-Jan-24	172	86	34	10.94	15.02
30-Jan-24	164	82	30	12.02	18.09
31-Jan-24	159	76	28	10.92	16.45
03-Feb-24	195	92	41	16.65	16.49
05-Feb-24	164	84	32	10.62	16.15
09-Feb-24	180	88	35	10.18	13.32
10-Feb-24	194	93	40	14.83	13.32
19-Feb-24	186	87	38	12.37	11.52
20-Feb-24	176	86	34	13.01	12.87
26-Feb-24	156	73	27	13.71	13.84
27-Feb-24	184	89	37	13.01	12.38
01-Mar-24	174	86	33	17.06	14.02

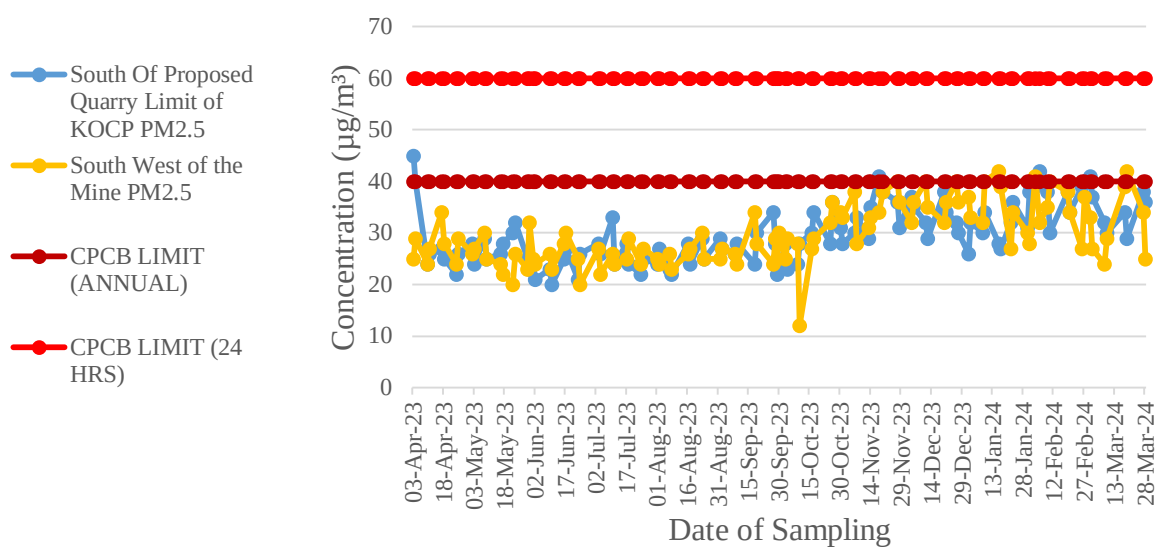
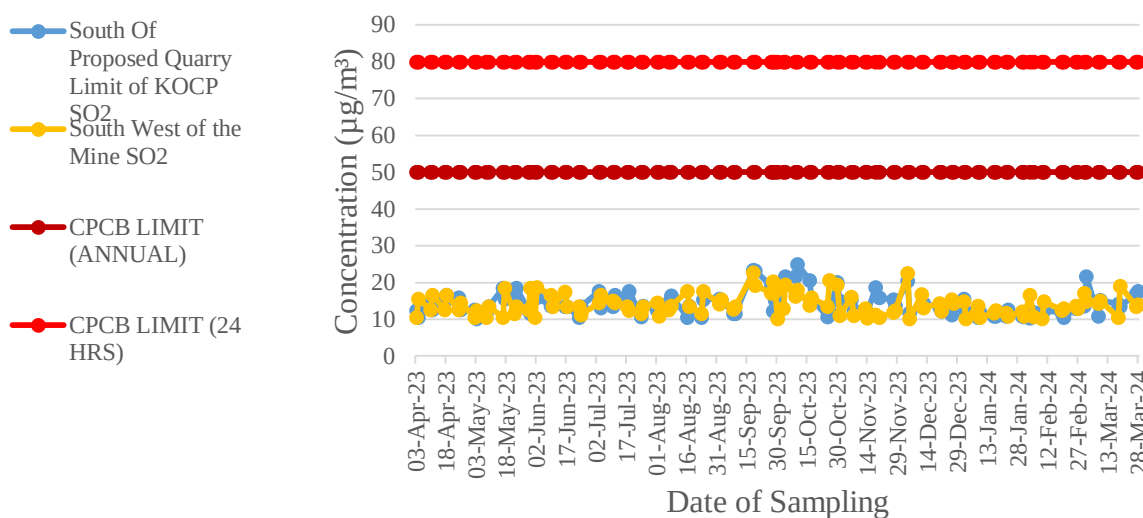
02-Mar-24	162	74	27	14.79	18.80
08-Mar-24	152	68	24	14.33	11.87
09-Mar-24	166	79	29	15.12	17.01
18-Mar-24	174	86	39	10.52	23.52
19-Mar-24	162	93	42	18.97	16.59
27-Mar-24	152	87	34	13.48	11.25
28-Mar-24	166	70	25	13.95	14.76
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	196	95	42	22.79	26.63
Minimum	135	57	12	10	10
Average	161.29	76.55	29.68	14.07	15.63
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



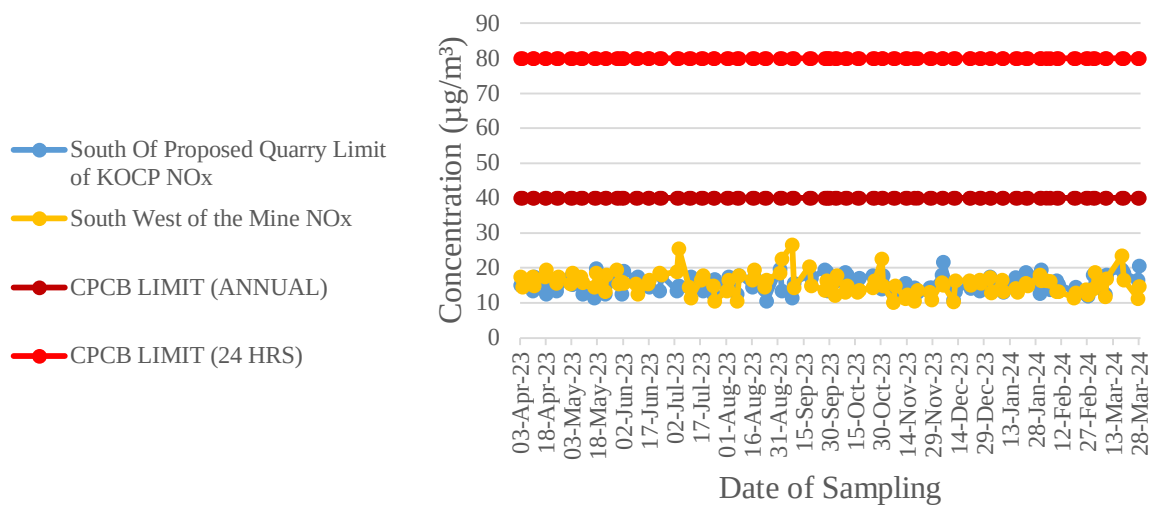
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Graph Showing SPM for Kaniha OCP

Graph Showing PM₁₀ for Kaniha OCP

Graph Showing PM_{2.5} for Kaniha OCPGraph Showing SO₂ for Kaniha OCP

Graph Showing NO_x for Kaniha OCP



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Area: Hingula Area

Project: Hingula OCP

Table 24

Monitoring Station: South West Side of the Mine

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	189	93	42	15.74	14.52
24-Apr-23	208	98	49	13.58	17.58
15-May-23	178	85	37	18.54	12.56
29-May-23	194	92	43	16.69	15.65
14-Jun-23	182	91	39	13.96	17.48
29-Jun-23	182	87	38	13.56	12.12
14-Jul-23	177	87	38	12.50	17.85
25-Jul-23	198	95	44	13.52	18.57
14-Aug-23	182	91	39	11.52	14.56
29-Aug-23	178	85	37	15.58	16.52
14-Sep-23	166	84	33	17.71	16.45
23-Sep-23	172	92	40	23.32	17.23
13-Oct-23	240	156	64	15.94	15.02
20-Oct-23	264	156	62	16.23	14.39
04-Nov-23	252	152	55	12.70	12.53
23-Nov-23	274	174	66	15.61	12.00
13-Dec-23	264	167	65	19.66	18.74
29-Dec-23	265	171	66	19.87	18.69
12-Jan-24	278	186	70	14.12	16.28
29-Jan-24	275	173	66	13.05	16.45
14-Feb-24	266	174	68	11.63	18.11
22-Feb-24	242	146	54	13.60	15.95
14-Mar-24	228	138	55	10.36	11.28
23-Mar-24	256	132	50	14.59	17.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	278	186	70	23.32	18.74
Minimum	166	84	33	10	11
Average	221.25	125.21	50.83	15.15	15.75
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Hingula Area

Project: Hingula OCP

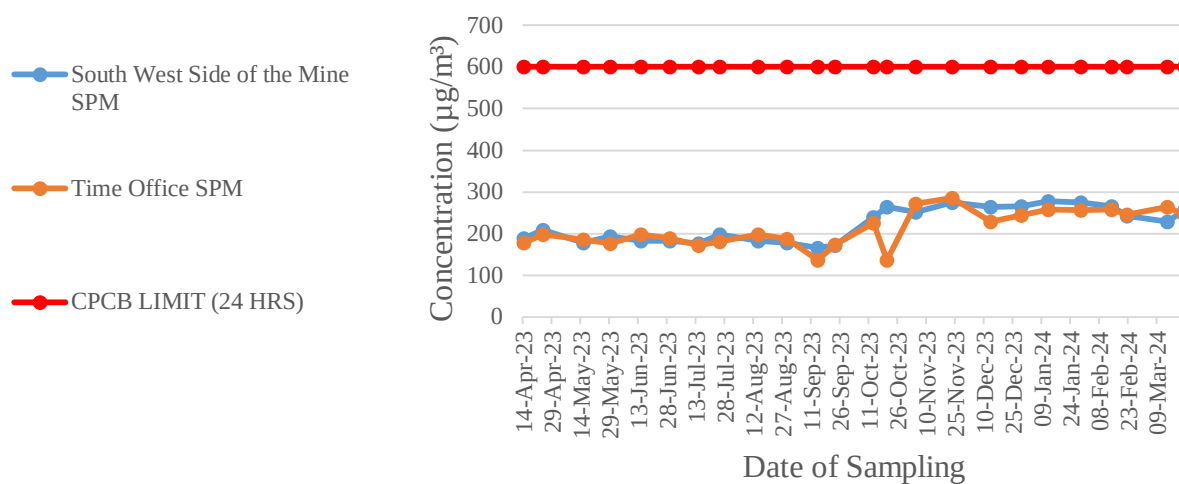
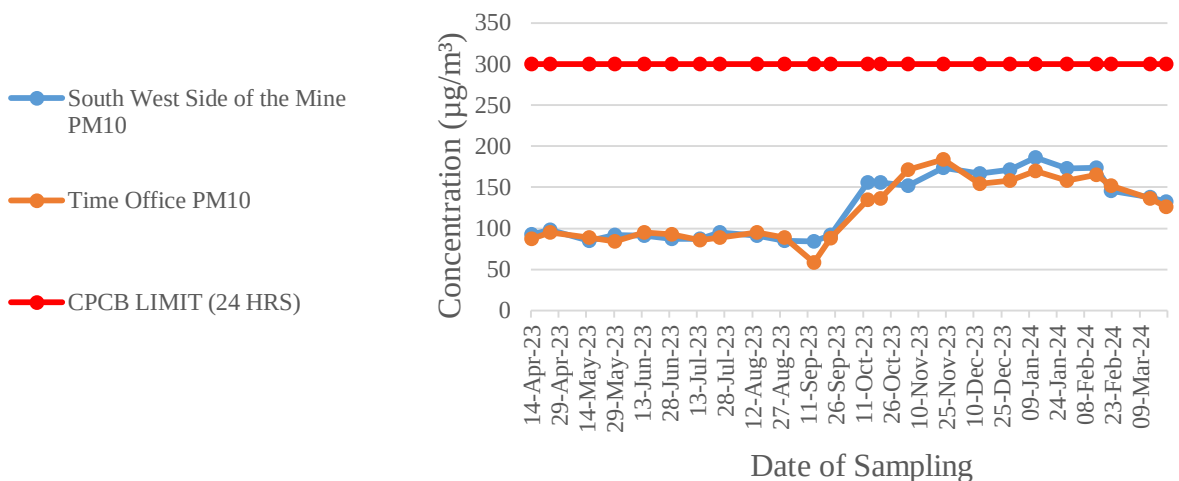
Table 25

Monitoring Station: Time Office

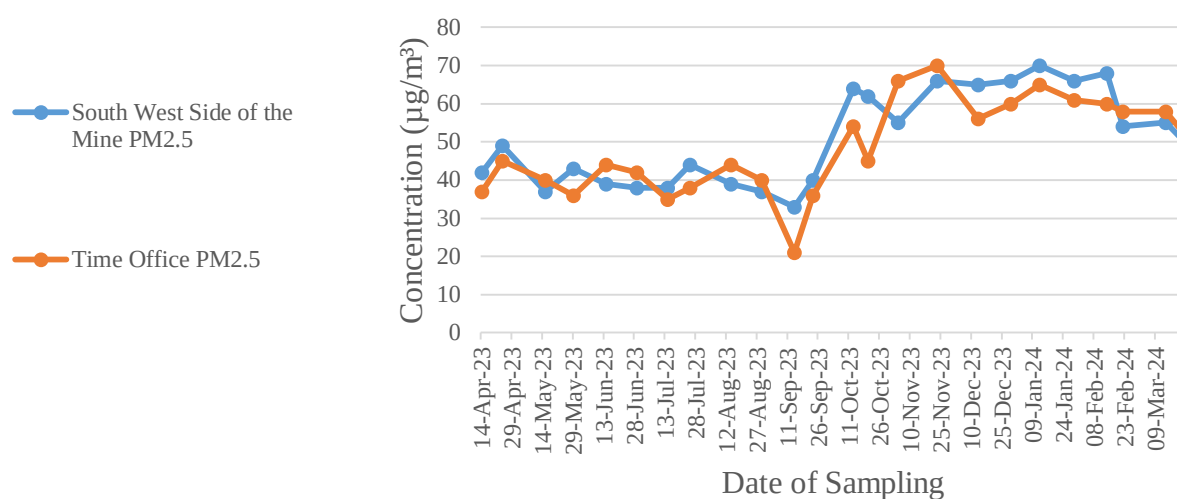
(All values are in $\mu\text{g}/\text{m}^3$)

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	178	87	37	12.56	17.58
24-Apr-23	198	95	45	15.45	16.58
15-May-23	185	89	40	15.42	17.58
27-May-23	176	84	36	11.52	17.59
14-Jun-23	198	95	44	10.55	14.96
29-Jun-23	189	93	42	15.56	20.22
14-Jul-23	171	86	35	13.54	16.54
25-Jul-23	181	89	38	13.52	19.58
14-Aug-23	198	95	44	13.56	16.24
29-Aug-23	187	89	40	16.58	14.52
14-Sep-23	137	58	21	14.37	16.45
22-Sep-23	174	88	36	25.60	18.92
13-Oct-23	225	135	54	17.87	15.02
20-Oct-23	136	136	45	15.97	12.16
04-Nov-23	272	171	66	11.19	13.72
23-Nov-23	285	184	70	14.35	10.14
13-Dec-23	228	154	56	13.99	13.25
29-Dec-23	244	158	60	18.46	19.21
12-Jan-24	258	170	65	17.58	12.56
29-Jan-24	256	158	61	11.69	12.71
14-Feb-24	258	165	60	12.48	13.30
22-Feb-24	246	152	58	16.32	18.63
14-Mar-24	264	136	58	15.16	19.13
28-Mar-24	244	126	52	10.21	13.65
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	285	184	70	25.6	20.22
Minimum	136	58	21	10	10
Average	212.00	120.54	48.46	14.73	15.84
Standard (24 Hrs)	500	250		120	120

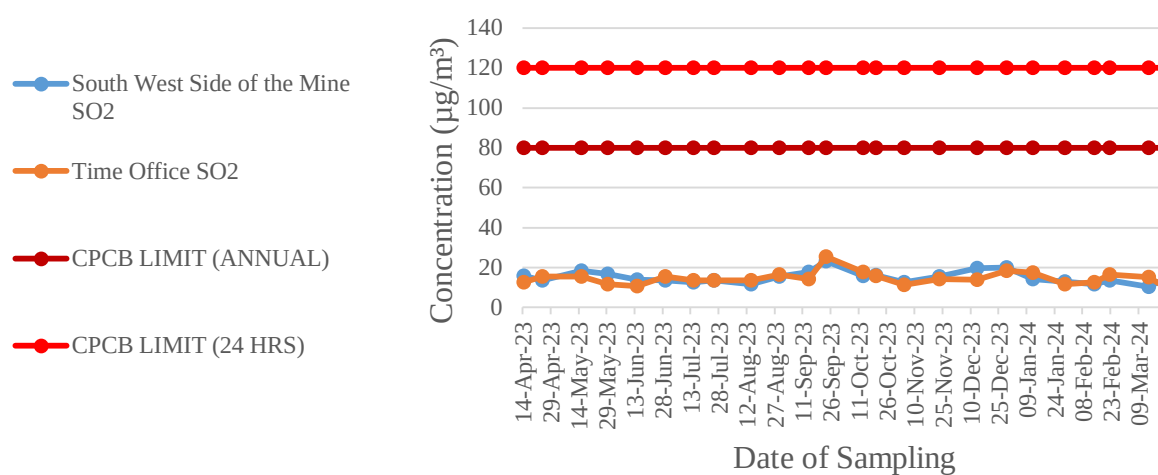
Graph Showing SPM for Hingula OCP

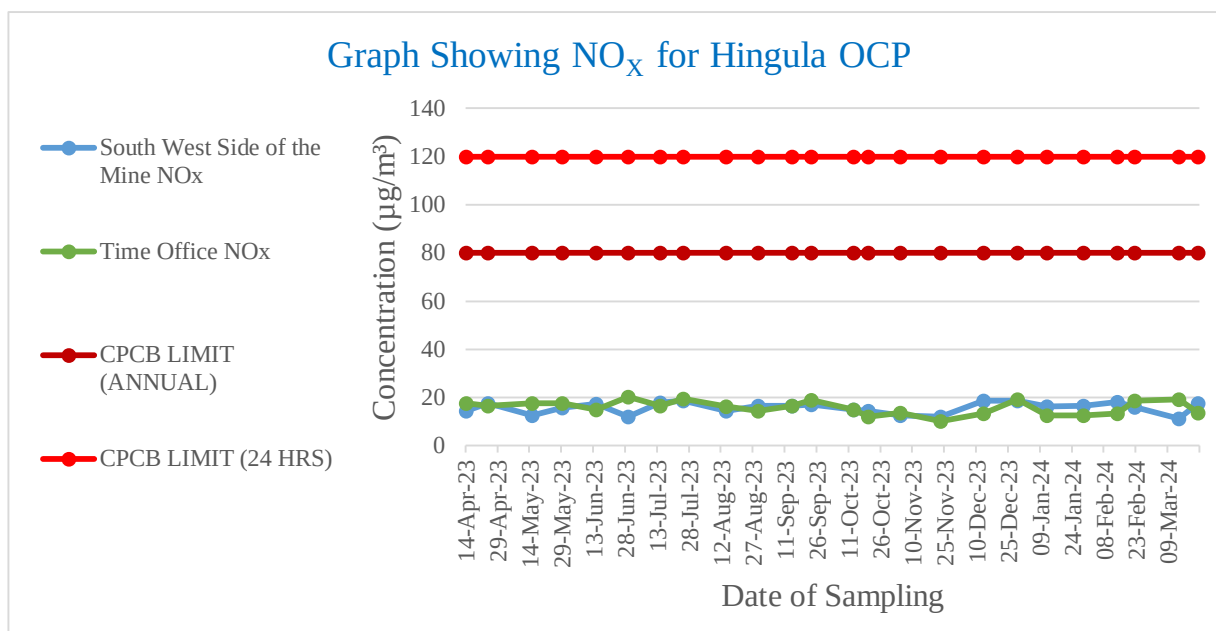
Graph Showing PM₁₀ for Hingula OCP

Graph Showing PM_{2.5} for Hingula OCP



Graph Showing SO₂ for Hingula OCP





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Area: Hingula Area

Project: Hingula OCP

Table 26

Monitoring Station: North East of the Mine, Solda Village (Reference)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	134	59	20	14.58	12.56
04-Apr-23	146	68	25	12.56	16.58
10-Apr-23	156	73	28	15.58	18.59
11-Apr-23	141	61	23	12.56	17.58
17-Apr-23	138	61	22	15.65	17.58
18-Apr-23	155	73	28	12.05	16.85
24-Apr-23	151	71	26	10.52	14.56
25-Apr-23	161	82	30	12.52	13.52
02-May-23	143	63	24	16.54	18.45
03-May-23	138	60	22	11.52	18.54
08-May-23	145	66	25	10.05	15.42
09-May-23	136	58	20	11.52	15.24
16-May-23	156	74	28	17.56	19.86
17-May-23	138	60	22	12.56	17.85
22-May-23	154	71	27	11.52	13.56
23-May-23	158	75	29	15.58	16.58
30-May-23	164	80	32	15.65	17.85
31-May-23	153	71	27	15.65	19.85
01-Jun-23	136	58	21	16.58	18.45
02-Jun-23	146	68	25	13.91	16.58
09-Jun-23	155	74	28	16.58	16.56
10-Jun-23	142	62	24	15.98	13.00
16-Jun-23	150	69	26	12.56	15.85
17-Jun-23	144	63	24	13.55	18.59
23-Jun-23	155	74	28	16.58	16.54
24-Jun-23	137	60	22	17.59	15.69
03-Jul-23	153	71	27	10.78	12.56
04-Jul-23	146	65	25	13.59	16.85
10-Jul-23	141	62	23	13.52	19.58
11-Jul-23	151	75	26	13.52	18.57
17-Jul-23	155	75	28	10.52	11.25
18-Jul-23	145	66	25	13.95	14.76
24-Jul-23	158	77	29	10.21	13.65
25-Jul-23	154	72	27	14.59	17.58
01-Aug-23	136	75	28	11.52	13.56
02-Aug-23	146	79	30	11.23	14.58
07-Aug-23	155	65	25	16.58	13.52
08-Aug-23	142	62	27	14.52	10.52
16-Aug-23	138	60	22	15.52	15.74
17-Aug-23	147	66	25	17.58	19.58
23-Aug-23	138	58	22	11.52	13.56
24-Aug-23	164	83	32	17.54	18.54
30-Aug-23	163	82	31	17.58	14.56

31-Aug-23	146	66	25	13.58	19.87
01-Sep-23	137	59	22	13.78	14.10
02-Sep-23	155	76	28	12.52	17.82
08-Sep-23	144	63	24	15.48	15.73
09-Sep-23	162	82	31	12.65	18.69
18-Sep-23	154	75	28	13.91	12.34
19-Sep-23	148	67	26	16.69	16.45
27-Sep-23	159	82	30	21.20	18.02
28-Sep-23	145	66	25	24.11	17.82
03-Oct-23	186	86	35	18.06	14.39
04-Oct-23	152	72	27	20.56	15.63
09-Oct-23	156	76	28	12.50	11.65
10-Oct-23	143	63	24	16.67	17.27
16-Oct-23	192	90	39	17.49	17.23
17-Oct-23	144	68	25	16.94	15.02
25-Oct-23	172	87	34	16.19	15.70
26-Oct-23	164	84	32	18.55	14.88
30-Oct-23	172	86	35	18.21	14.95
31-Oct-23	156	75	28	17.71	16.45
06-Nov-23	168	78	29	10.77	12.53
07-Nov-23	172	82	31	10.68	11.85
13-Nov-23	184	88	38	15.87	9.72
14-Nov-23	180	87	35	13.91	13.72
18-Nov-23	170	80	30	13.76	12.00
20-Nov-23	178	86	35	14.91	11.33
27-Nov-23	184	87	38	10.88	13.07
28-Nov-23	176	83	34	11.83	13.72
04-Dec-23	192	94	40	13.02	13.88
05-Dec-23	185	88	36	12.26	15.09
11-Dec-23	180	84	35	11.89	12.67
12-Dec-23	177	83	34	17.09	13.88
20-Dec-23	196	93	42	11.34	13.84
21-Dec-23	184	88	36	12.78	15.65
26-Dec-23	182	84	35	13.94	14.49
27-Dec-23	178	83	34	15.64	16.48
01-Jan-24	178	92	37	12.68	14.52
02-Jan-24	162	83	31	10.12	17.89
08-Jan-24	172	89	35	12.26	14.74
09-Jan-24	159	81	30	10.25	13.56
16-Jan-24	164	78	29	10.45	15.73
17-Jan-24	166	84	32	13.05	16.45
22-Jan-24	172	88	34	10.90	17.27
23-Jan-24	156	73	27	10.72	13.02
30-Jan-24	154	72	26	10.38	15.67
31-Jan-24	164	83	30	10.17	16.45
03-Feb-24	164	77	30	17.01	20.61
05-Feb-24	176	88	34	11.94	16.72
09-Feb-24	165	84	32	16.19	13.30
10-Feb-24	182	88	36	12.21	14.63
19-Feb-24	178	85	34	11.22	14.50
20-Feb-24	164	78	29	10.35	16.69
26-Feb-24	169	83	31	11.22	15.10
27-Feb-24	183	88	36	11.50	16.49

01-Mar-24	178	86	34	11.14	18.01
02-Mar-24	162	75	28	15.83	18.32
08-Mar-24	156	70	26	21.21	15.01
09-Mar-24	148	67	25	11.51	10.74
18-Mar-24	190	91	39	14.71	14.52
19-Mar-24	162	84	31	11.96	16.00
27-Mar-24	178	89	37	12.56	17.58
28-Mar-24	158	67	27	11.21	13.65
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	196	94	42	24.11	20.61
Minimum	134	58	20	10	10
Average	159.59	75.59	29.19	13.96	15.54
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Hingula Area

Project: Hingula OCP

Table 27

Monitoring Station: North of the Mine, Purnapani, Kumunda Village
(Reference)

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

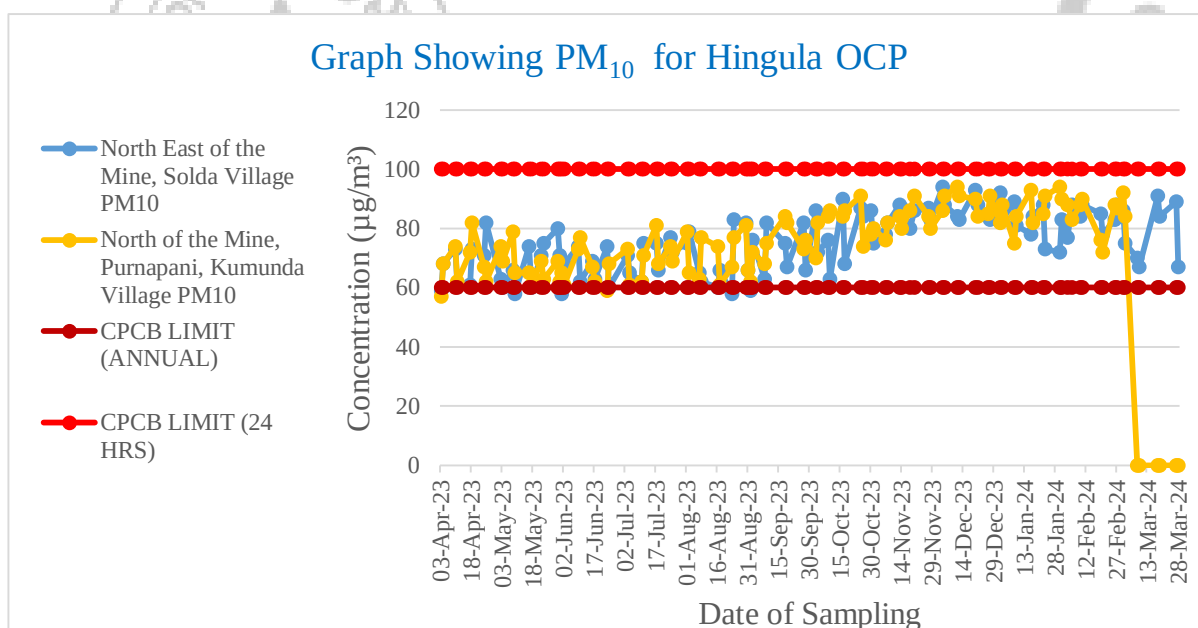
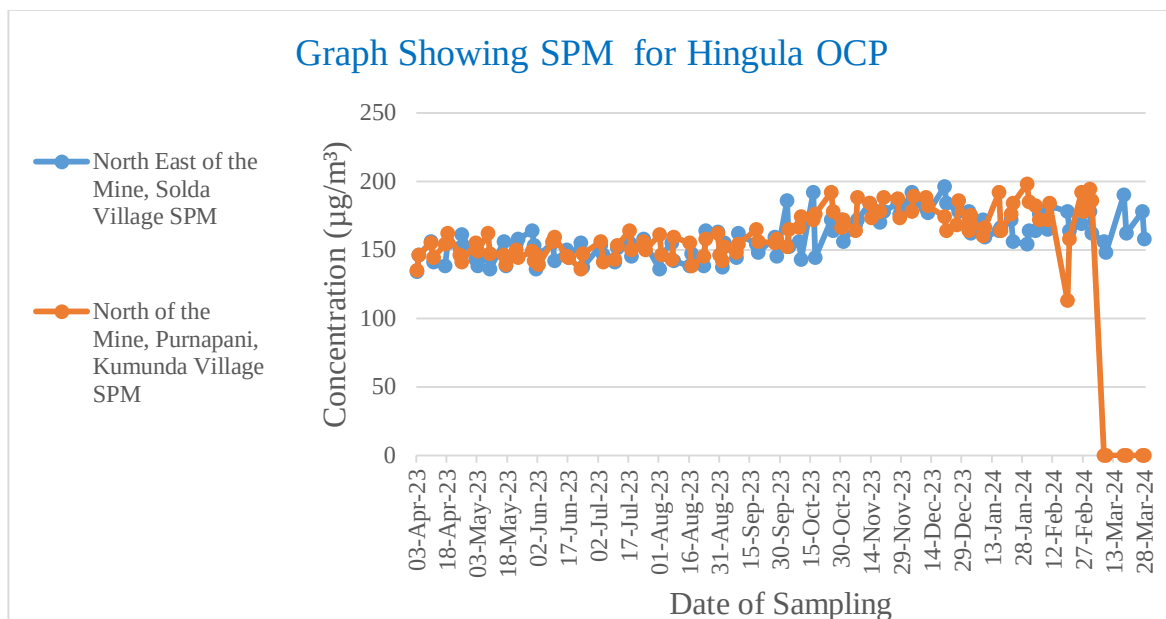
Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	135	57	20	14.52	18.66
04-Apr-23	146	68	25	12.56	19.58
10-Apr-23	155	74	28	10.52	17.85
11-Apr-23	144	62	24	12.56	15.56
17-Apr-23	154	72	27	12.56	18.65
18-Apr-23	162	82	30	13.55	17.58
24-Apr-23	146	67	25	12.01	13.56
25-Apr-23	141	62	23	14.85	16.54
02-May-23	155	74	28	15.42	16.52
03-May-23	149	69	26	18.54	15.85
08-May-23	162	79	30	15.21	17.52
09-May-23	147	65	25	14.56	17.56
16-May-23	146	65	25	12.98	15.65
17-May-23	139	61	22	12.56	15.65
30-May-23	150	69	26	15.12	19.52
31-May-23	144	63	24	13.84	17.88
01-Jun-23	143	62	24	12.63	18.57
02-Jun-23	153	71	27	11.52	17.10
09-Jun-23	164	81	32	15.65	18.56
10-Jun-23	150	68	26	10.56	13.52
16-Jun-23	149	69	26	12.25	13.52
17-Jun-23	142	62	23	11.58	16.59
23-Jun-23	146	65	25	17.56	13.58
24-Jun-23	139	61	22	14.55	17.59
03-Jul-23	156	73	28	11.52	14.95
04-Jul-23	159	77	29	13.52	10.58
10-Jul-23	145	67	25	16.23	14.58
11-Jul-23	144	62	24	17.65	13.49
17-Jul-23	136	59	21	13.52	16.54
18-Jul-23	147	68	25	17.58	20.56
24-Jul-23	156	73	28	10.52	23.52
25-Jul-23	141	61	23	18.97	16.59
01-Aug-23	143	62	24	13.56	14.52
02-Aug-23	153	71	27	10.56	13.58
07-Aug-23	164	81	32	12.56	14.57
08-Aug-23	150	68	26	13.52	17.58
16-Aug-23	156	74	28	17.58	13.56
17-Aug-23	150	69	26	13.56	14.58
23-Aug-23	161	79	30	17.58	14.58
24-Aug-23	146	65	25	14.58	16.89
30-Aug-23	143	63	24	11.52	17.58

31-Aug-23	159	77	29	14.87	16.58
01-Sep-23	155	74	28	16.43	10.97
02-Sep-23	138	61	22	12.06	12.34
08-Sep-23	145	67	25	16.45	13.59
09-Sep-23	158	77	29	19.22	20.19
18-Sep-23	162	81	30	15.18	13.46
19-Sep-23	146	66	25	21.20	17.23
27-Sep-23	142	62	23	21.25	16.45
28-Sep-23	152	72	27	19.35	14.30
03-Oct-23	148	68	25	22.75	17.23
04-Oct-23	154	75	27	20.71	15.70
09-Oct-23	165	84	32	13.04	12.16
10-Oct-23	156	82	30	19.58	16.45
16-Oct-23	155	73	27	15.97	15.02
17-Oct-23	158	76	28	11.63	14.21
25-Oct-23	152	70	26	12.58	12.16
26-Oct-23	165	82	31	16.69	15.70
30-Oct-23	166	84	32	13.20	17.23
31-Oct-23	174	86	36	21.70	20.56
06-Nov-23	172	84	33	13.65	15.09
07-Nov-23	176	86	34	12.40	13.72
13-Nov-23	192	91	39	13.53	10.14
14-Nov-23	178	74	36	11.19	13.72
18-Nov-23	166	78	29	12.09	14.37
20-Nov-23	172	80	31	11.79	16.33
27-Nov-23	164	76	28	13.25	13.12
28-Nov-23	188	82	39	11.54	13.10
04-Dec-23	184	84	36	18.31	20.49
05-Dec-23	173	80	31	10.10	13.88
11-Dec-23	178	86	34	20.94	12.49
12-Dec-23	188	91	38	10.49	16.41
20-Dec-23	187	84	36	13.25	16.12
21-Dec-23	173	80	31	11.32	15.23
26-Dec-23	178	86	34	14.40	16.21
27-Dec-23	189	91	38	10.78	14.41
01-Jan-24	188	94	40	14.20	19.85
02-Jan-24	182	91	38	11.58	14.52
08-Jan-24	174	90	36	13.58	17.12
09-Jan-24	164	84	32	10.52	17.85
16-Jan-24	168	85	33	11.69	15.70
17-Jan-24	186	91	38	12.88	13.59
22-Jan-24	164	82	31	10.72	11.65
23-Jan-24	175	88	36	10.42	15.70
30-Jan-24	160	75	28	13.84	17.23
31-Jan-24	166	84	32	11.42	17.14
03-Feb-24	192	93	40	13.82	19.09
05-Feb-24	164	82	30	11.92	15.19
09-Feb-24	176	85	34	14.07	12.16
10-Feb-24	184	91	39	12.21	13.30
19-Feb-24	198	94	42	10.64	15.50
20-Feb-24	185	90	37	13.48	10.45
26-Feb-24	182	88	36	12.96	10.20
27-Feb-24	172	83	31	10.64	12.32

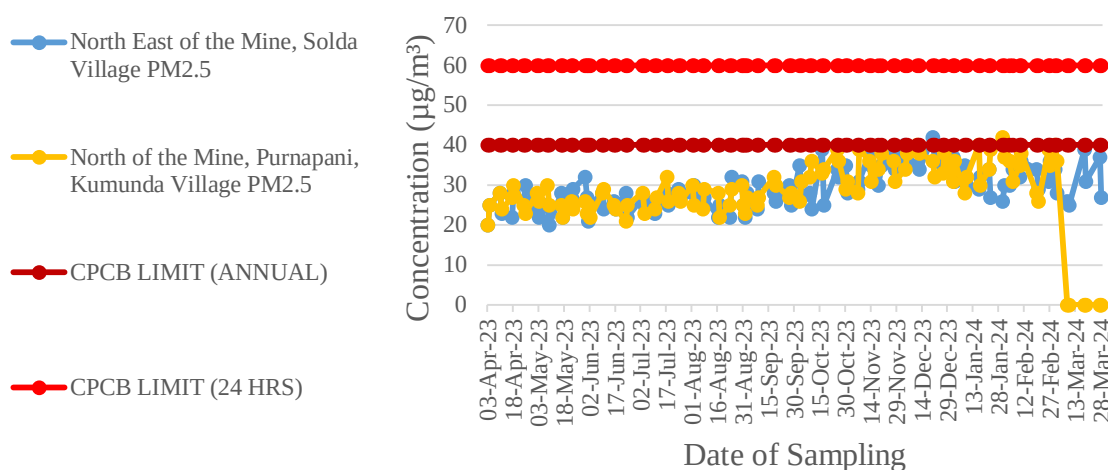
01-Mar-24	172	88	35	18.18	17.26
02-Mar-24	184	90	38	14.05	11.08
08-Mar-24	113	76	28	12.46	13.57
09-Mar-24	158	72	26	14.04	12.17
18-Mar-24	192	88	39	14.65	16.54
19-Mar-24	178	87	35	10.25	13.96
27-Mar-24	194	92	40	13.12	12.25
28-Mar-24	186	84	36	16.85	18.54
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	198	94	42	22.75	23.52
Minimum	113	57	20	10	10
Average	161.53	76.44	29.87	14.11	15.51
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



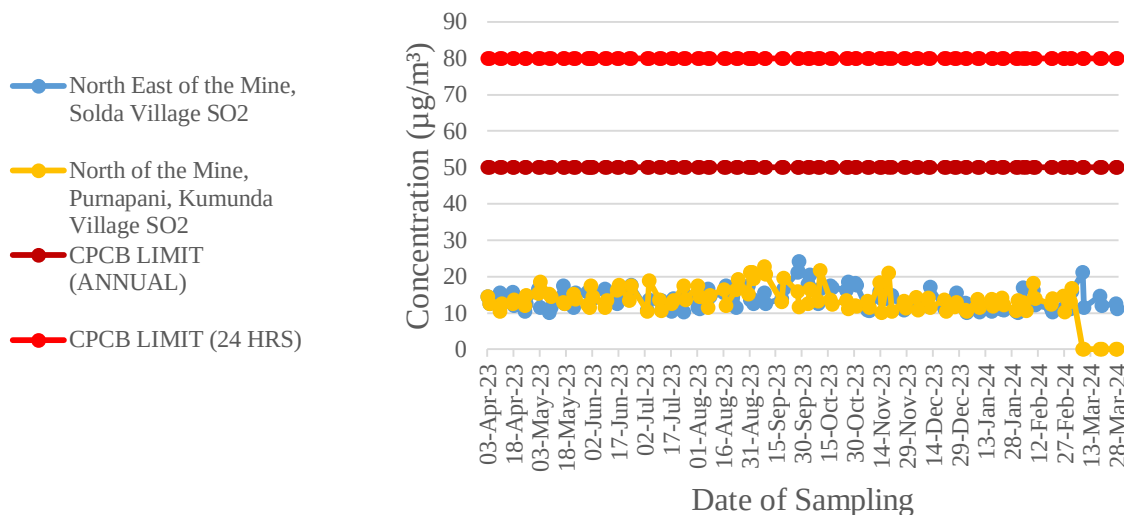
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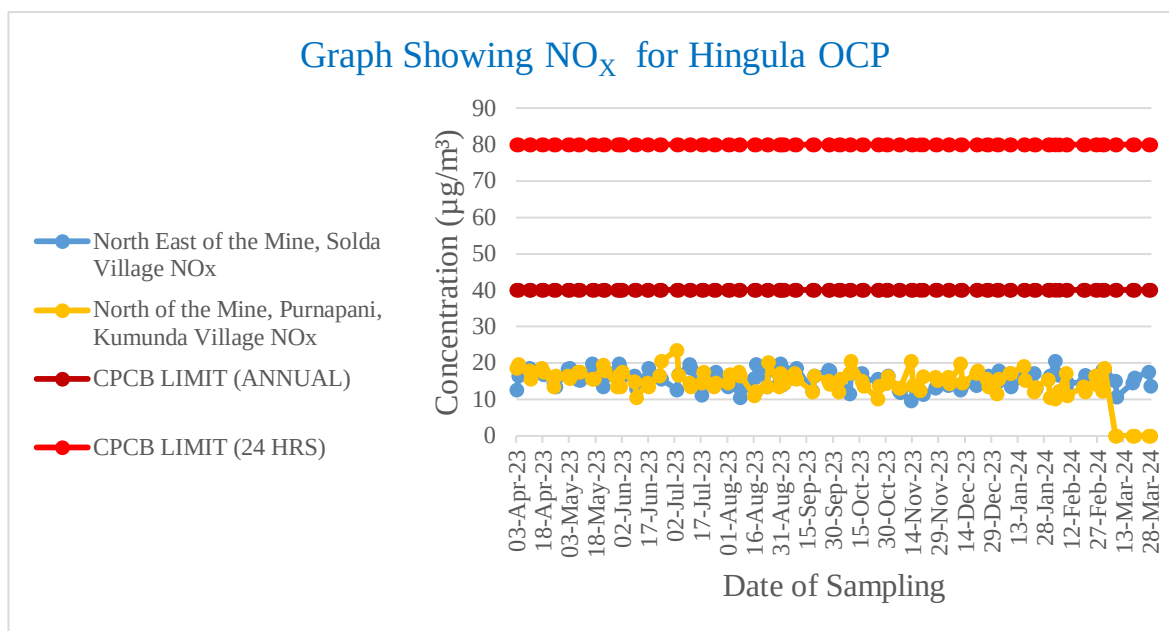


Graph Showing PM_{2.5} for Hingula OCP



Graph Showing SO₂ for Hingula OCP





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Area: Hingula Area

Project: Balram OCP

Table 28

Monitoring Station: Near Project Office

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	177	86	37	10.85	12.56
25-Apr-23	176	85	36	18.56	14.58
15-May-23	168	82	34	17.52	12.52
29-May-23	198	93	44	13.56	17.58
14-Jun-23	188	90	41	10.26	15.59
30-Jun-23	178	85	37	13.55	15.68
14-Jul-23	195	104	44	13.52	16.54
24-Jul-23	181	90	38	14.65	16.54
12-Aug-23	190	90	39	13.12	16.89
29-Aug-23	180	77	38	12.52	16.58
14-Sep-23	172	84	35	17.42	12.16
23-Sep-23	190	93	42	22.26	16.45
14-Oct-23	224	133	52	18.69	16.45
21-Oct-23	232	128	44	18.08	14.39
04-Nov-23	266	162	60	10.68	13.72
23-Nov-23	262	165	62	11.87	12.53
13-Dec-23	248	168	62	13.43	13.22
29-Dec-23	262	172	65	17.26	18.49
12-Jan-24	264	174	67	14.52	16.55
30-Jan-24	248	164	59	12.81	14.39
14-Feb-24	246	152	57	10.76	18.32
22-Feb-24	256	158	60	12.34	19.23
14-Mar-24	239	149	55	11.17	13.31
23-Mar-24	210	118	46	13.65	16.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	266	174	67	22.26	19.23
Minimum	168	77	34	10	12
Average	214.58	120.92	48.08	14.29	15.45
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Hingula Area

Project: Balram OCP

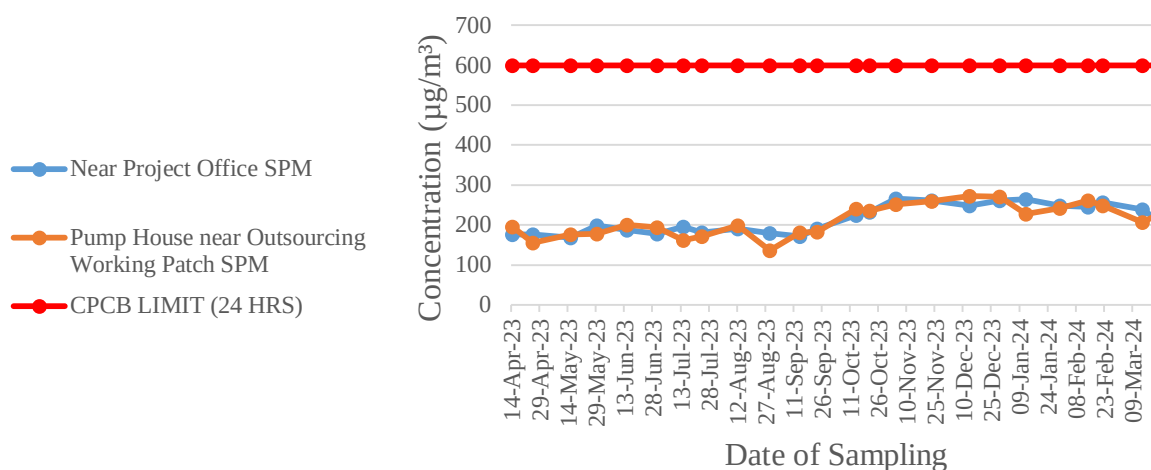
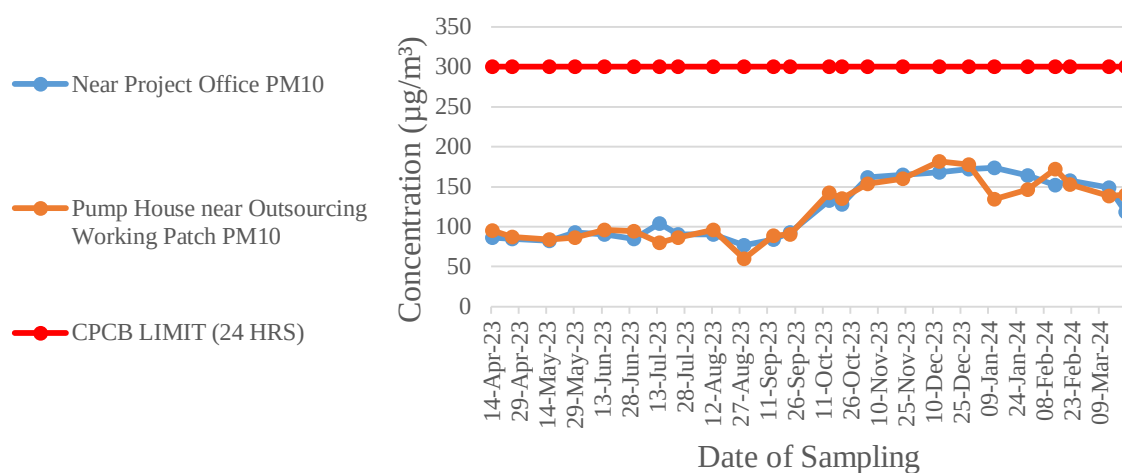
Table 29

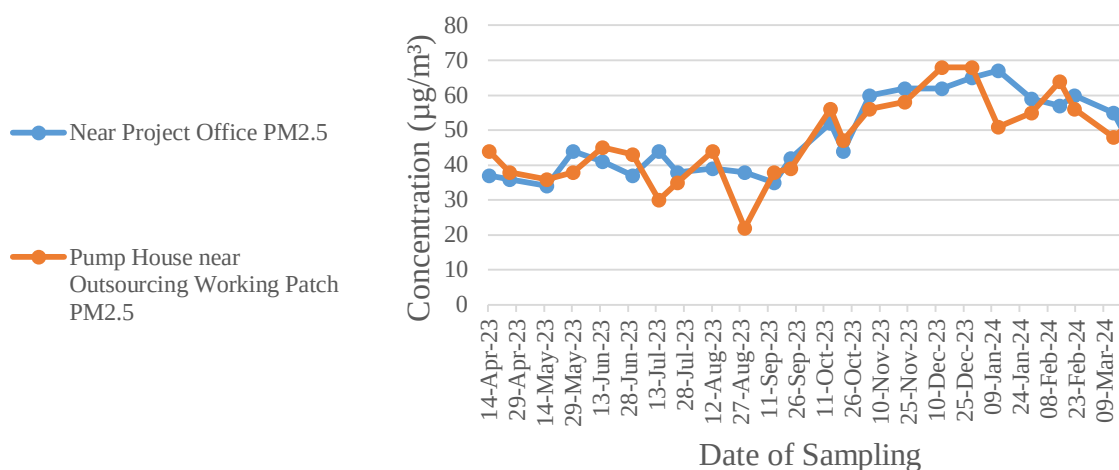
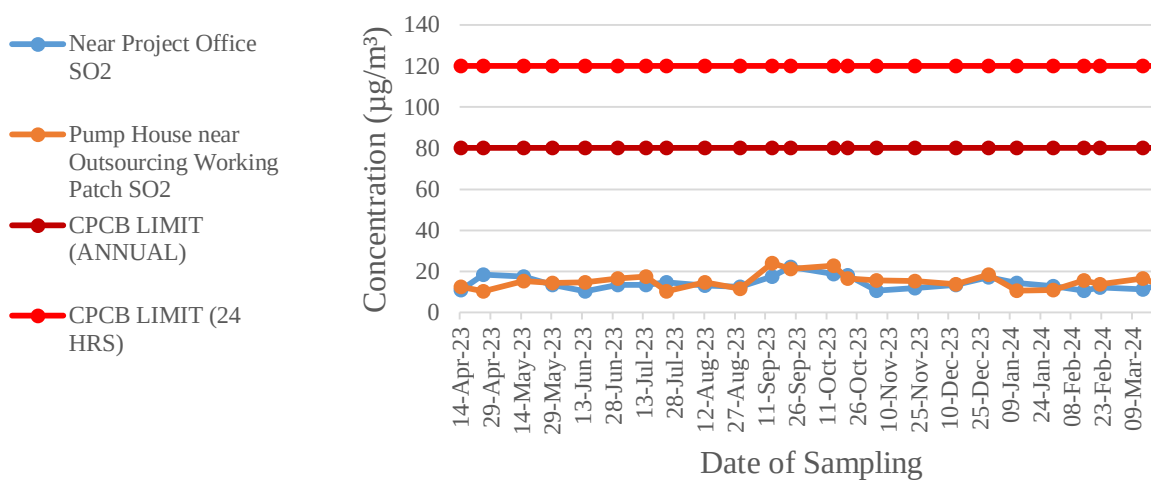
Monitoring Station: Pump House near Outsourcing Working Patch

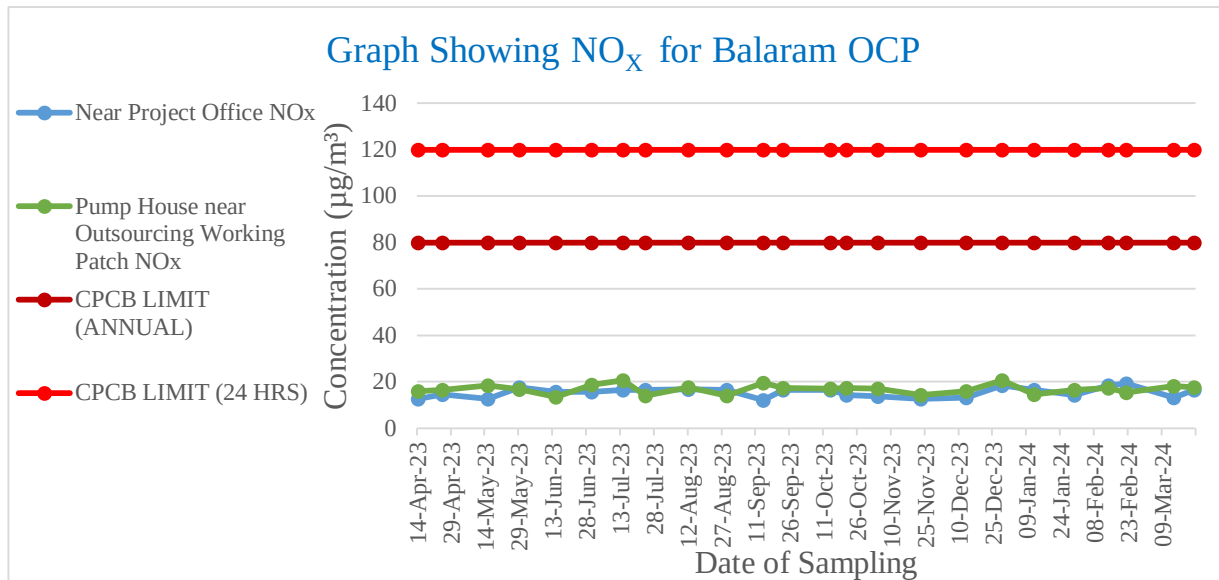
(All values are in $\mu\text{g}/\text{m}^3$)

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-23	195	95	44	12.56	15.88
25-Apr-23	156	87	38	10.25	16.54
15-May-23	176	84	36	15.46	18.56
29-May-23	178	86	38	14.52	16.89
14-Jun-23	201	96	45	14.58	13.59
30-Jun-23	194	94	43	16.58	18.59
14-Jul-23	162	80	30	17.58	20.56
24-Jul-23	172	86	35	10.25	13.96
12-Aug-23	199	96	44	14.58	17.58
29-Aug-23	137	60	22	11.56	14.12
14-Sep-23	181	89	38	24.06	19.58
23-Sep-23	183	90	39	21.20	17.23
14-Oct-23	240	142	56	22.69	17.14
21-Oct-23	236	135	47	16.43	17.23
04-Nov-23	252	154	56	15.55	17.15
23-Nov-23	260	160	58	15.42	14.37
13-Dec-23	272	182	68	13.84	15.87
29-Dec-23	271	178	68	18.35	20.59
12-Jan-24	228	134	51	10.52	14.53
30-Jan-24	242	146	55	10.93	16.45
14-Feb-24	262	172	64	15.74	17.25
22-Feb-24	248	153	56	13.60	15.52
14-Mar-24	206	138	48	16.64	18.13
23-Mar-24	228	140	52	13.25	17.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	272	182	68	24.06	20.59
Minimum	137	60	22	10	14
Average	211.63	119.88	47.13	15.26	16.87
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Graph Showing SPM for Balaram OCP

Graph Showing PM₁₀ for Balaram OCP

Graph Showing PM_{2.5} for Balaram OCPGraph Showing SO₂ for Balaram OCP



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Area: Hingula Area

Project: Balram OCP

Monitoring Station: North West of the Mine, Solda Village (Reported Only)

Table 30 Reference Station

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	134	59	20	14.58	12.56
04-Apr-23	146	68	25	12.56	16.58
10-Apr-23	156	73	28	15.58	18.59
11-Apr-23	141	61	23	12.56	17.58
17-Apr-23	138	61	22	15.65	17.58
18-Apr-23	155	73	28	12.05	16.85
24-Apr-23	151	71	26	10.52	14.56
25-Apr-23	161	82	30	12.52	13.52
02-May-23	143	63	24	16.54	18.45
03-May-23	138	60	22	11.52	18.54
08-May-23	145	66	25	10.05	15.42
09-May-23	136	58	20	11.52	15.24
16-May-23	156	74	28	17.56	19.86
17-May-23	138	60	22	12.56	17.85
22-May-23	154	71	27	11.52	13.56
23-May-23	158	75	29	15.58	16.58
30-May-23	164	80	32	15.65	17.85
31-May-23	153	71	27	15.65	19.85
01-Jun-23	136	58	21	16.58	18.45
02-Jun-23	146	68	25	13.91	16.58
09-Jun-23	155	74	28	16.58	16.56
10-Jun-23	142	62	24	15.98	13.00
16-Jun-23	150	69	26	12.56	15.85
17-Jun-23	144	63	24	13.55	18.59
23-Jun-23	155	74	28	16.58	16.54
24-Jun-23	137	60	22	17.59	15.69
03-Jul-23	153	71	27	10.78	12.56
04-Jul-23	146	65	25	13.59	16.85
10-Jul-23	141	62	23	13.52	19.58
11-Jul-23	151	75	26	13.52	18.57
17-Jul-23	155	75	28	10.52	11.25
18-Jul-23	145	66	25	13.95	14.76
24-Jul-23	158	77	29	10.21	13.65
25-Jul-23	154	72	27	14.59	17.58
01-Aug-23	136	75	28	11.52	13.56
02-Aug-23	146	79	30	11.23	14.58
07-Aug-23	155	65	25	16.58	13.52
08-Aug-23	142	62	27	14.52	10.52
16-Aug-23	138	60	22	15.52	15.74
17-Aug-23	147	66	25	17.58	19.58
23-Aug-23	138	58	22	11.52	13.56
24-Aug-23	164	83	32	17.54	18.54
30-Aug-23	163	82	31	17.58	14.56

31-Aug-23	146	66	25	13.58	19.87
01-Sep-23	137	59	22	13.78	14.10
02-Sep-23	155	76	28	12.52	17.82
08-Sep-23	144	63	24	15.48	15.73
09-Sep-23	162	82	31	12.65	18.69
18-Sep-23	154	75	28	13.91	12.34
19-Sep-23	148	67	26	16.69	16.45
27-Sep-23	159	82	30	21.20	18.02
28-Sep-23	145	66	25	24.11	17.82
03-Oct-23	186	86	35	18.06	14.39
04-Oct-23	152	72	27	20.56	15.63
09-Oct-23	156	76	28	12.50	11.65
10-Oct-23	143	63	24	16.67	17.27
16-Oct-23	192	90	39	17.49	17.23
17-Oct-23	144	68	25	16.94	15.02
25-Oct-23	172	87	34	16.19	15.70
26-Oct-23	164	84	32	18.55	14.88
30-Oct-23	172	86	35	18.21	14.95
31-Oct-23	156	75	28	17.71	16.45
06-Nov-23	168	78	29	10.77	12.53
07-Nov-23	172	82	31	10.68	11.85
13-Nov-23	184	88	38	15.87	9.72
14-Nov-23	180	87	35	13.91	13.72
18-Nov-23	170	80	30	13.76	12.00
20-Nov-23	178	86	35	14.91	11.33
27-Nov-23	184	87	38	10.88	13.07
28-Nov-23	176	83	34	11.83	13.72
04-Dec-23	192	94	40	13.02	13.88
05-Dec-23	185	88	36	12.26	15.09
11-Dec-23	180	84	35	11.89	12.67
12-Dec-23	177	83	34	17.09	13.88
20-Dec-23	196	93	42	11.34	13.84
21-Dec-23	184	88	36	12.78	15.65
26-Dec-23	182	84	35	13.94	14.49
27-Dec-23	178	83	34	15.64	16.48
01-Jan-24	178	92	37	12.68	14.52
02-Jan-24	162	83	31	10.12	17.89
08-Jan-24	172	89	35	12.26	14.74
09-Jan-24	159	81	30	10.25	13.56
16-Jan-24	164	78	29	10.45	15.73
17-Jan-24	166	84	32	13.05	16.45
22-Jan-24	172	88	34	10.90	17.27
23-Jan-24	156	73	27	10.72	13.02
30-Jan-24	154	72	26	10.38	15.67
31-Jan-24	164	83	30	10.17	16.45
03-Feb-24	164	77	30	17.01	20.61
05-Feb-24	176	88	34	11.94	16.72
09-Feb-24	165	84	32	16.19	13.30
10-Feb-24	182	88	36	12.21	14.63
19-Feb-24	178	85	34	11.22	14.50
20-Feb-24	164	78	29	10.35	16.69
26-Feb-24	169	83	31	11.22	15.10
27-Feb-24	183	88	36	11.50	16.49

01-Mar-24	178	86	34	11.14	18.01
02-Mar-24	162	75	28	15.83	18.32
08-Mar-24	156	70	26	21.21	15.01
09-Mar-24	148	67	25	11.51	10.74
18-Mar-24	190	91	39	14.71	14.52
19-Mar-24	162	84	31	11.96	16.00
27-Mar-24	178	89	37	12.56	17.58
28-Mar-24	158	67	27	11.21	13.65
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	196	94	42	24.11	20.61
Minimum	134	58	20	10	10
Average	159.59	75.59	29.19	13.96	15.54
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Hingula Area

Project: Balram OCP

Table 31

Monitoring Station: Natada Village (Reference Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	143	65	24	15.89	17.58
04-Apr-23	137	62	21	12.56	15.58
10-Apr-23	142	64	23	10.52	16.58
11-Apr-23	135	61	20	14.58	17.42
17-Apr-23	150	71	27	14.87	18.98
18-Apr-23	192	76	29	15.65	12.74
24-Apr-23	188	60	21	12.56	17.84
25-Apr-23	157	63	24	15.85	12.56
02-May-23	158	75	29	15.24	13.52
03-May-23	146	66	25	18.54	12.54
08-May-23	153	71	27	13.52	18.54
09-May-23	149	68	26	11.32	15.54
16-May-23	157	78	29	15.56	13.56
17-May-23	143	63	24	12.74	18.56
22-May-23	137	61	22	11.52	18.65
23-May-23	162	81	30	16.85	15.58
01-Jun-23	157	77	29	13.56	17.42
02-Jun-23	153	72	27	11.56	15.85
09-Jun-23	161	81	30	13.56	17.12
10-Jun-23	156	76	28	12.74	16.85
16-Jun-23	138	59	22	13.56	18.55
17-Jun-23	166	82	33	13.56	14.58
23-Jun-23	154	72	27	14.56	17.58
24-Jun-23	158	79	29	18.44	13.57
03-Jul-23	157	78	29	10.21	13.65
04-Jul-23	153	71	27	14.59	17.58
10-Jul-23	150	66	25	14.65	16.54
11-Jul-23	137	60	22	10.25	13.96
17-Jul-23	146	68	26	12.56	17.58
18-Jul-23	158	78	29	11.21	13.65
24-Jul-23	165	83	32	13.65	16.58
25-Jul-23	144	63	24	13.25	17.58
01-Aug-23	157	77	29	10.25	13.87
02-Aug-23	153	72	27	13.28	14.58
07-Aug-23	161	81	30	14.25	18.57
08-Aug-23	156	76	28	13.25	17.58
16-Aug-23	150	68	26	13.45	16.58
17-Aug-23	143	63	24	16.58	13.45
23-Aug-23	138	61	22	13.56	17.45
24-Aug-23	145	68	25	18.45	13.33
30-Aug-23	156	75	28	13.52	16.39
31-Aug-23	149	67	26	16.58	14.85
01-Sep-23	138	60	22	14.16	12.71

02-Sep-23	152	71	27	15.77	13.02
08-Sep-23	161	82	30	18.21	19.44
09-Sep-23	147	66	25	13.25	18.8
18-Sep-23	139	61	22	23.27	17.2
19-Sep-23	153	73	27	17.62	13.71
27-Sep-23	144	63	24	21.77	15.73
28-Sep-23	158	77	29	29.68	21.15
03-Oct-23	148	60	25	18.06	13.71
04-Oct-23	152	69	26	21.16	17.23
09-Oct-23	145	67	25	18.84	15.02
10-Oct-23	172	84	30	20.77	15.73
16-Oct-23	184	90	38	14.03	15.73
17-Oct-23	174	87	35	21.73	21.15
25-Oct-23	160	76	28	16.69	18.69
26-Oct-23	166	84	32	20.74	15.7
30-Oct-23	162	82	30	19.48	24.67
31-Oct-23	155	75	28	11.13	15.26
06-Nov-23	196	93	42	11.25	12.47
07-Nov-23	166	77	29	11.54	13.72
13-Nov-23	174	80	30	10.32	12
14-Nov-23	164	76	28	11.87	13.12
18-Nov-23	180	89	37	13.76	13.72
20-Nov-23	175	85	33	12.42	16.11
27-Nov-23	184	90	38	10.58	12.58
28-Nov-23	174	81	32	14.81	17.64
04-Dec-23	190	90	38	13.21	15.14
05-Dec-23	178	86	34	13.38	11.47
11-Dec-23	186	88	37	11.4	16.53
12-Dec-23	173	84	32	14.37	15.14
20-Dec-23	191	91	38	13.65	15.98
21-Dec-23	178	86	34	12.11	14.48
26-Dec-23	186	88	37	11.78	15.36
27-Dec-23	173	83	32	12.78	16.41
01-Jan-24	162	80	31	14.58	18.59
02-Jan-24	150	70	25	11.25	14.59
08-Jan-24	163	79	31	14.28	13.65
09-Jan-24	156	76	28	11.59	14.89
16-Jan-24	158	75	28	11.98	17.23
17-Jan-24	168	86	34	12.35	18.51
22-Jan-24	162	83	30	10.94	17.88
23-Jan-24	165	84	32	11.69	15.7
30-Jan-24	158	75	28	11.98	18.8
31-Jan-24	165	81	32	13.47	20.19
03-Feb-24	165	81	32	10.35	11.21
05-Feb-24	162	79	30	13.57	16.03
09-Feb-24	150	68	25	11.34	13.74
10-Feb-24	186	90	38	12.5	16.24
19-Feb-24	195	94	40	14.32	14.72
20-Feb-24	168	85	33	16.52	16.51
26-Feb-24	164	84	32	14.99	16.79
27-Feb-24	185	89	37	18.63	14.08
01-Mar-24	167	82	30	12.18	16.11
02-Mar-24	182	91	39	14.97	17.06

08-Mar-24	170	84	33	21.44	18.68
09-Mar-24	172	82	31	11.99	12.06
18-Mar-24	169	82	30	13.56	11.75
19-Mar-24	180	88	35	13.52	17.68
27-Mar-24	195	92	40	11.69	13.98
28-Mar-24	185	91	38	13.59	16.52
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	196	94	42	29.68	24.67
Minimum	135	59	20	10	11
Average	161.67	76.50	29.42	14.39	15.89
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Hingula Area

Project: Balram OCP

Table 32

Monitoring Station: East of the Mine, Natedi Village (Reference Station)

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

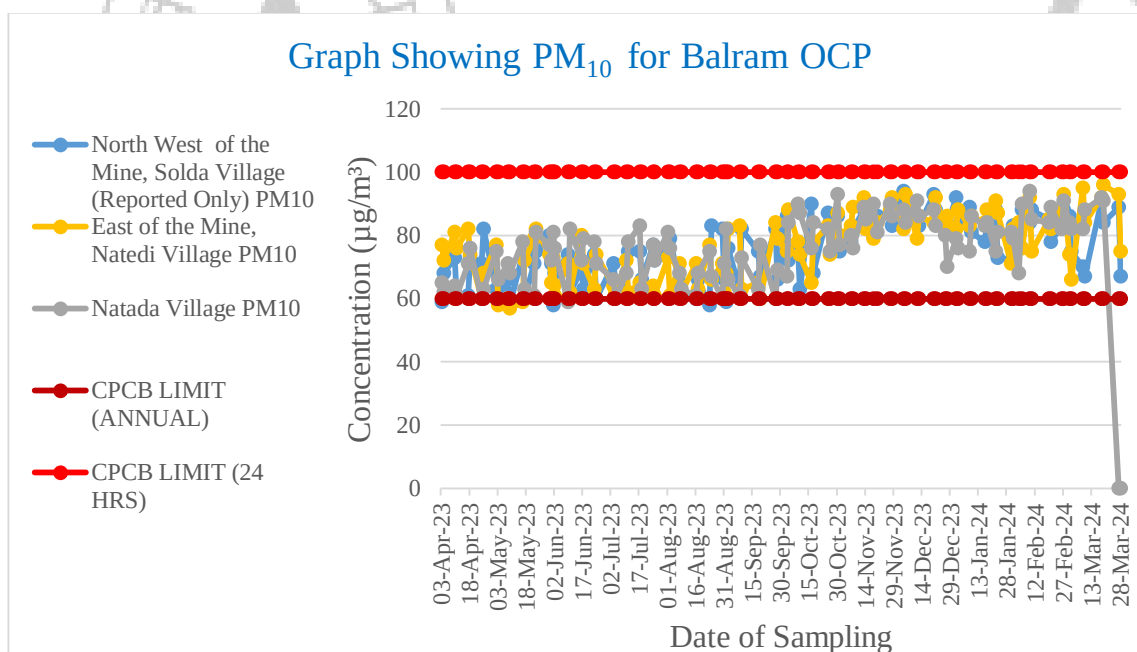
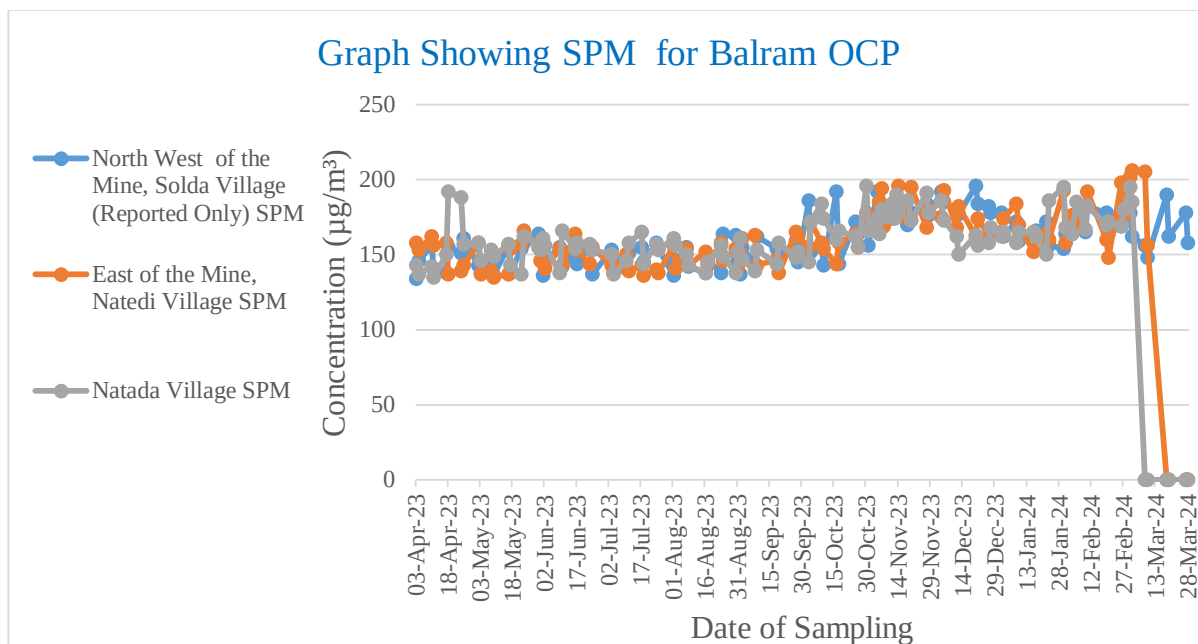
Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
03-Apr-23	158	77	29	13.56	18.54
04-Apr-23	153	72	27	11.47	15.95
10-Apr-23	162	81	30	10.41	12.56
11-Apr-23	156	76	28	12.56	15.58
17-Apr-23	158	82	31	15.65	17.58
18-Apr-23	137	74	28	12.54	16.58
24-Apr-23	139	60	22	11.52	15.65
25-Apr-23	143	68	26	10.56	13.52
02-May-23	158	77	29	13.56	13.52
03-May-23	137	58	21	15.24	17.59
08-May-23	139	60	22	10.52	14.52
09-May-23	135	57	20	15.24	18.54
16-May-23	137	59	22	12.51	19.56
17-May-23	154	72	27	13.52	18.59
22-May-23	157	79	29	18.56	13.52
23-May-23	166	82	33	13.56	18.41
30-May-23	155	74	28	18.54	13.52
31-May-23	146	65	25	10.54	18.74
01-Jun-23	156	73	28	10.52	13.56
02-Jun-23	141	61	23	13.56	17.85
09-Jun-23	154	71	27	14.58	19.85
10-Jun-23	143	62	24	12.56	16.44
16-Jun-23	164	80	32	13.52	14.58
17-Jun-23	153	71	27	16.58	13.56
23-Jun-23	144	63	24	13.52	18.54
24-Jun-23	155	74	28	17.56	12.55
03-Jul-23	143	64	24	10.52	23.52
04-Jul-23	138	62	22	18.97	16.59
10-Jul-23	150	72	26	10.52	11.25
11-Jul-23	139	62	22	13.95	14.76
17-Jul-23	143	65	24	13.12	12.25
18-Jul-23	136	62	21	16.85	18.54
24-Jul-23	140	64	23	14.71	14.52
25-Jul-23	138	61	22	11.96	16.00
01-Aug-23	156	73	28	10.25	17.56
02-Aug-23	141	61	23	13.56	14.18
07-Aug-23	154	71	27	13.58	16.58
08-Aug-23	143	62	23	12.28	14.25
16-Aug-23	152	71	27	15.47	16.58
17-Aug-23	143	63	24	11.58	14.56
23-Aug-23	158	77	29	13.89	19.85
24-Aug-23	146	66	25	11.52	16.58
30-Aug-23	154	71	27	14.58	17.45

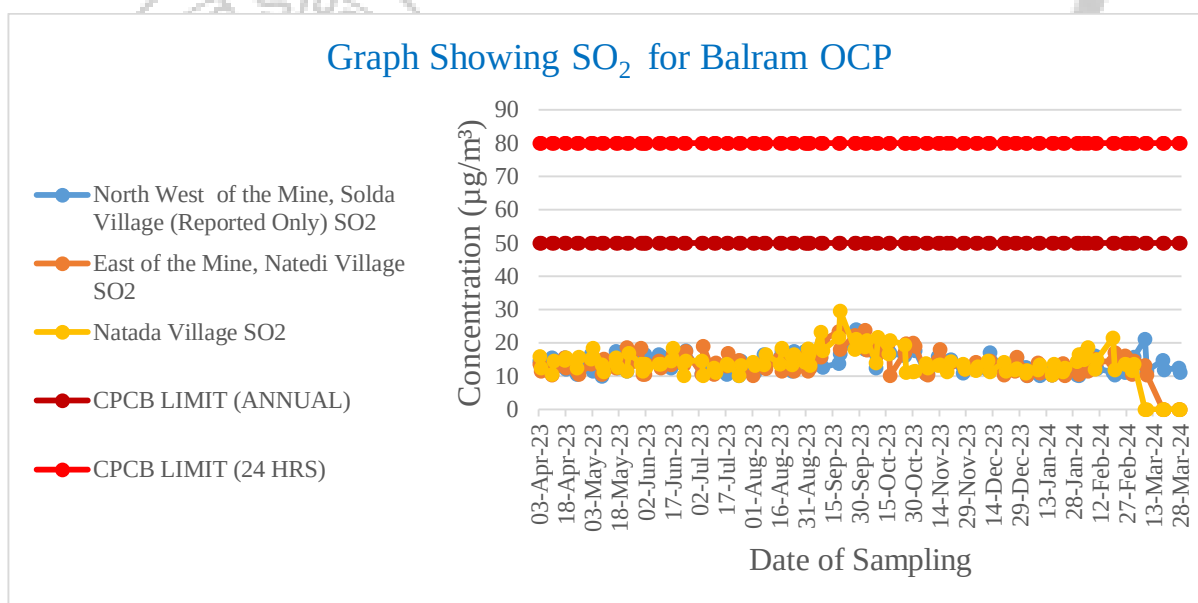
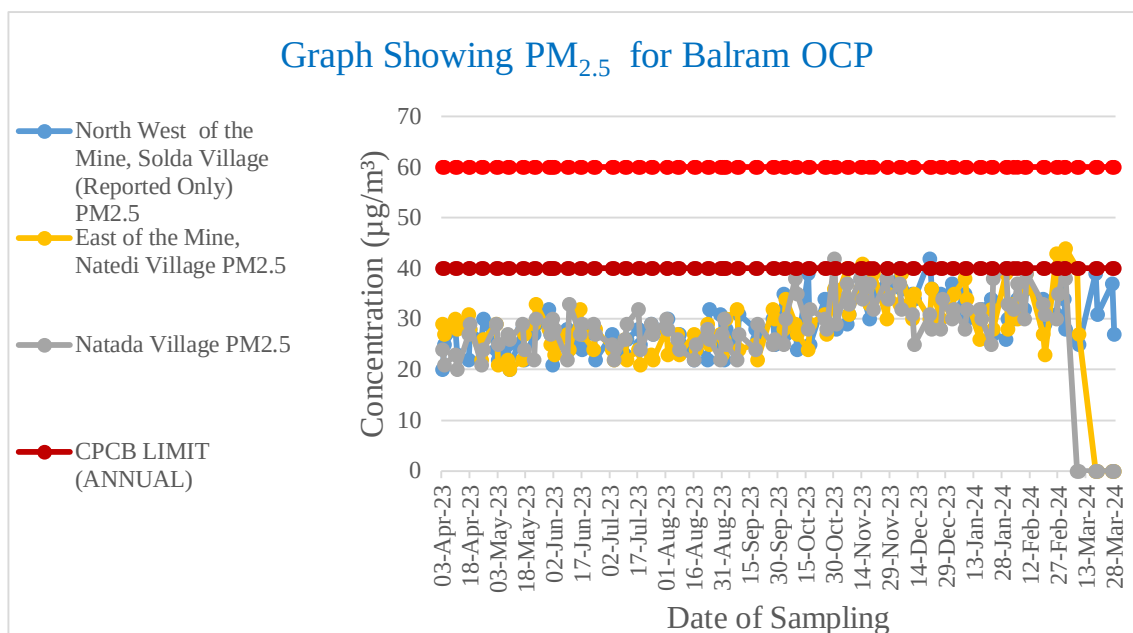
31-Aug-23	141	62	23	16.58	16.45
01-Sep-23	150	68	26	11.59	16.45
02-Sep-23	161	82	30	12.58	18.60
08-Sep-23	163	83	32	15.77	16.45
09-Sep-23	143	63	24	20.67	21.93
18-Sep-23	147	65	25	23.37	18.09
19-Sep-23	138	60	22	18.08	13.71
27-Sep-23	165	84	32	22.26	16.45
28-Sep-23	162	79	30	21.75	17.20
03-Oct-23	155	75	28	23.89	18.09
04-Oct-23	172	88	34	17.87	15.02
09-Oct-23	158	78	29	20.63	16.45
10-Oct-23	154	74	27	16.67	13.02
16-Oct-23	144	65	24	20.14	14.88
17-Oct-23	158	78	29	10.16	15.02
25-Oct-23	164	83	31	17.16	17.82
26-Oct-23	155	74	27	19.73	18.69
30-Oct-23	178	87	36	19.94	16.45
31-Oct-23	172	80	34	19.01	18.51
06-Nov-23	174	83	32	12.41	13.72
07-Nov-23	185	89	38	11.19	13.72
13-Nov-23	194	92	40	10.77	12.53
14-Nov-23	169	82	31	10.39	11.85
18-Nov-23	174	79	32	12.12	11.85
20-Nov-23	178	84	35	11.11	12.00
27-Nov-23	176	88	36	14.72	16.21
28-Nov-23	196	92	41	18.14	16.33
04-Dec-23	174	82	33	13.60	17.67
05-Dec-23	195	93	39	14.12	12.67
11-Dec-23	168	79	30	13.43	15.20
12-Dec-23	180	86	35	12.11	10.99
20-Dec-23	175	84	33	14.19	18.14
21-Dec-23	193	92	39	13.26	15.41
26-Dec-23	168	82	30	12.34	14.54
27-Dec-23	182	86	35	14.58	16.41
01-Jan-24	162	82	30	10.36	12.52
02-Jan-24	174	88	36	13.28	16.98
08-Jan-24	163	83	30	11.57	14.22
09-Jan-24	166	86	33	15.85	12.26
16-Jan-24	165	84	32	11.65	13.02
17-Jan-24	174	88	35	10.21	15.02
22-Jan-24	184	91	38	14.11	20.37
23-Jan-24	170	87	34	10.92	19.58
30-Jan-24	152	71	26	10.45	17.17
31-Jan-24	163	82	30	10.95	15.51
03-Feb-24	164	84	32	13.82	19.09
05-Feb-24	160	76	28	10.27	14.11
09-Feb-24	193	92	39	14.01	22.37
10-Feb-24	158	75	28	10.47	15.40
19-Feb-24	176	85	33	12.65	12.73
20-Feb-24	172	82	30	11.55	11.02
26-Feb-24	182	88	36	15.24	11.32
27-Feb-24	192	93	39	14.41	13.84

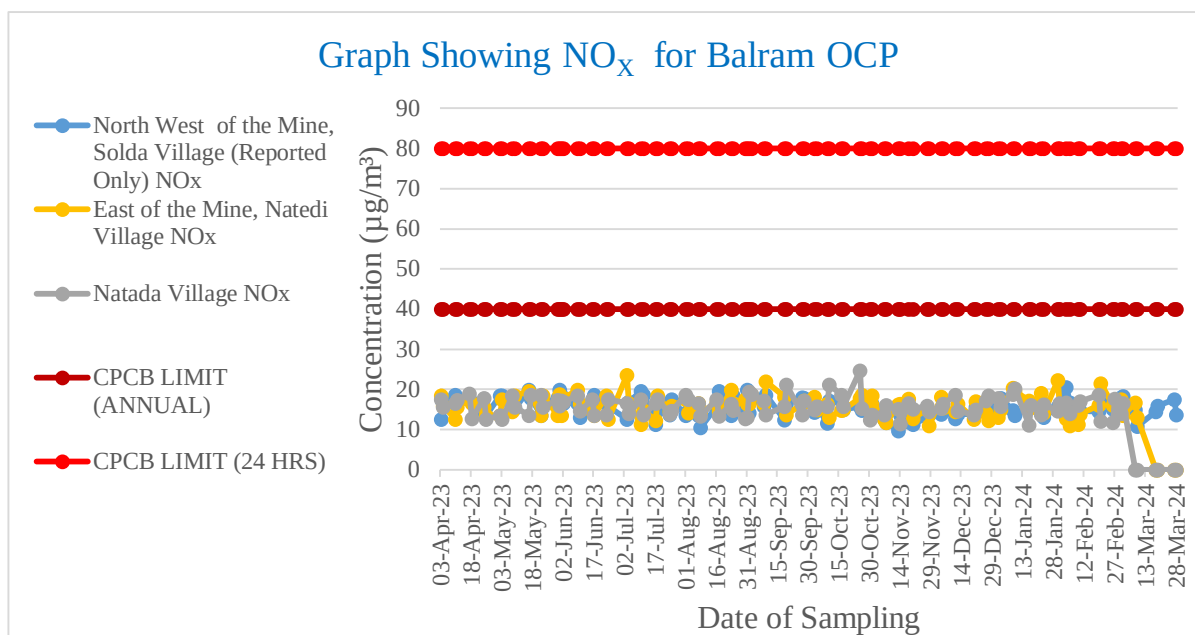
01-Mar-24	160	74	27	14.34	16.13
02-Mar-24	148	66	23	17.10	21.48
08-Mar-24	198	95	43	16.15	16.16
09-Mar-24	176	84	35	15.45	17.01
18-Mar-24	202	92	41	10.52	17.58
19-Mar-24	206	96	44	14.56	13.52
27-Mar-24	205	93	40	13.26	16.74
28-Mar-24	156	75	27	10.45	12.98
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	206	96	44	23.89	23.52
Minimum	135	57	20	10	11
Average	161.12	76.42	29.60	14.13	15.88
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Talcher Area

Project: Talcher UGP

Monitoring Station: Near Canteen Talcher Colliery (Compliance Station)

Table 33

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
15-Apr-23	202	97	46	12.45	13.56
28-Apr-23	155	92	43	11.00	15.57
15-May-23	184	87	39	12.52	13.52
29-May-23	198	95	44	13.54	18.54
15-Jun-23	197	96	44	15.96	14.13
28-Jun-23	208	97	48	10.56	14.59
15-Jul-23	175	88	36	13.12	12.25
31-Jul-23	203	96	45	10.52	17.58
12-Aug-23	197	96	45	17.59	14.58
29-Aug-23	153	71	27	11.52	14.58
15-Sep-23	188	92	41	11.13	12.16
23-Sep-23	212	98	47	22.26	17.88
14-Oct-23	276	168	75	16.20	13.02
21-Oct-23	265	156	62	14.37	20.56
11-Nov-23	278	178	69	10.58	12.41
23-Nov-23	178	188	74	14.08	14.91
14-Dec-23	285	186	72	10.40	12.67
30-Dec-23	279	182	72	16.31	18.36
13-Jan-24	170	168	64	12.58	13.96
27-Jan-24	288	186	74	12.28	14.58
15-Feb-24	258	158	61	10.18	16.03
22-Feb-24	276	175	66	15.82	15.06
15-Mar-24	268	168	64	10.17	12.78
25-Mar-24	248	165	59	11.36	18.97
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	288	188	75	22.26	20.56
Minimum	153	71	27	10	12
Average	222.54	132.63	54.88	13.19	15.09
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Talcher Area

Project: Talcher UGP

Table 34

Monitoring Station: Officer Club, Talcher Area (Compliance Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
15-Apr-23	188	94	42	10.52	16.54
28-Apr-23	150	94	45	17.53	19.85
15-May-23	191	90	42	13.56	15.24
29-May-23	178	89	38	12.58	17.56
15-Jun-23	190	92	41	11.52	15.10
28-Jun-23	198	94	45	13.56	17.58
15-Jul-23	189	94	42	16.85	18.54
31-Jul-23	178	88	37	14.56	13.52
12-Aug-23	186	92	42	12.52	15.23
29-Aug-23	161	79	30	13.52	16.45
15-Sep-23	194	94	43	13.15	14.21
23-Sep-23	193	93	41	23.19	19.19
14-Oct-23	245	156	62	21.21	15.70
21-Oct-23	235	135	48	13.06	19.31
11-Nov-23	272	172	65	12.12	13.10
23-Nov-23	278	175	68	12.99	13.10
14-Dec-23	240	162	58	13.21	14.51
30-Dec-23	232	162	58	14.32	17.36
12-Jan-24	271	178	69	10.98	14.58
27-Jan-24	274	169	65	13.56	16.12
15-Feb-24	245	148	54	11.15	12.16
23-Feb-24	260	146	58	13.01	13.60
15-Mar-24	248	142	55	10.99	12.11
25-Mar-24	234	142	51	15.31	10.52
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	278	178	69	23.19	19.85
Minimum	150	79	30	11	11
Average	217.92	124.17	49.96	13.96	15.47
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Talcher Area

Project: Nandira UGP

Table 35

Monitoring Station: Project Office (Compliance Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
15-Apr-23	172	86	36	10.06	12.58
29-Apr-23	146	93	42	12.56	15.65
15-May-23	200	94	45	15.54	18.54
29-May-23	175	85	36	12.54	16.56
15-Jun-23	204	97	46	16.59	17.85
28-Jun-23	181	89	39	13.58	13.55
15-Jul-23	206	96	48	14.71	14.52
22-Jul-23	210	97	48	13.26	16.74
12-Aug-23	204	90	38	10.52	13.56
30-Aug-23	145	66	25	18.54	15.65
15-Sep-23	177	88	37	12.98	17.82
23-Sep-23	197	95	44	25.44	18.02
14-Oct-23	224	146	58	24.54	17.82
21-Oct-23	248	139	52	11.13	15.70
11-Nov-23	246	146	53	14.02	14.86
29-Nov-23	258	160	58	14.08	14.32
14-Dec-23	258	170	64	12.26	12.07
30-Dec-23	259	171	64	17.52	16.48
13-Jan-24	264	172	66	13.54	16.12
27-Jan-24	248	142	56	14.58	13.59
15-Feb-24	252	156	59	14.07	15.58
26-Feb-24	266	158	62	16.75	14.66
15-Mar-24	238	134	52	13.68	16.54
25-Mar-24	215	108	47	14.56	17.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	266	172	66	25.44	18.54
Minimum	145	66	25	10	12
Average	216.38	119.92	48.96	14.88	15.68
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Talcher Area

Project: Nandira UGP

Table 36

Monitoring Station: Sub-Station (Compliance Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
15-Apr-23	186	93	41	11.85	15.86
29-Apr-23	151	96	44	13.74	17.56
13-May-23	206	96	48	18.45	14.58
29-May-23	190	92	42	11.01	15.57
15-Jun-23	194	94	43	15.56	19.12
28-Jun-23	178	88	37	12.52	18.56
15-Jul-23	198	94	45	11.96	16.00
22-Jul-23	163	84	32	10.45	12.98
12-Aug-23	194	88	37	13.52	10.25
30-Aug-23	137	61	22	14.52	17.54
15-Sep-23	169	86	34	19.61	21.15
30-Sep-23	185	89	40	25.97	19.19
14-Oct-23	216	140	55	18.98	17.14
21-Oct-23	262	147	58	15.52	17.58
11-Nov-23	257	160	58	10.85	14.29
29-Nov-23	246	147	54	12.70	15.43
14-Dec-23	248	164	60	10.03	11.47
30-Dec-23	254	163	61	13.28	15.84
13-Jan-24	242	136	58	12.86	16.58
27-Jan-24	258	174	66	16.55	10.52
15-Feb-24	275	175	70	11.38	13.51
27-Feb-24	252	152	56	18.63	12.38
15-Mar-24	252	148	56	16.07	14.06
25-Mar-24	238	154	56	16.25	15.44
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	275	175	70	25.97	21.15
Minimum	137	61	22	10	10
Average	214.63	121.71	48.88	14.68	15.52
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Talcher Area

Project: Nandira UGP

Table 37

Monitoring Station: Near Natedi Village (Reported Only) (Reference Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-23	158	77	29	13.56	18.54
04-Apr-23	153	72	27	11.47	15.95
10-Apr-23	162	81	30	10.41	12.56
11-Apr-23	156	76	28	12.56	15.58
17-Apr-23	158	82	31	15.65	17.58
18-Apr-23	137	74	28	12.54	16.58
24-Apr-23	139	60	22	11.52	15.65
25-Apr-23	143	68	26	10.56	13.52
02-May-23	158	77	29	13.56	13.52
03-May-23	137	58	21	15.24	17.59
08-May-23	139	60	22	10.52	14.52
09-May-23	135	57	20	15.24	18.54
16-May-23	137	59	22	12.51	19.56
17-May-23	154	72	27	13.52	18.59
22-May-23	157	79.46	29	18.56	13.52
23-May-23	166	82	33	13.56	18.41
30-May-23	155	74	28	18.54	13.52
31-May-23	146	65	25	10.54	18.74
01-Jun-23	156	73	28	10.52	13.56
02-Jun-23	141	61	23	13.56	17.85
09-Jun-23	154	71	27	14.58	19.85
10-Jun-23	143	62	24	12.56	16.44
16-Jun-23	164	80	32	13.52	14.58
17-Jun-23	153	71	27	16.58	13.56
23-Jun-23	144	63	24	13.52	18.54
24-Jun-23	155	74	28	17.56	12.55
03-Jul-23	143	64	24	10.52	23.52
04-Jul-23	138	62	22	18.97	16.59
10-Jul-23	150	72	26	10.52	11.25
11-Jul-23	139	62	22	13.95	14.76
17-Jul-23	143	65	24	13.12	12.25
18-Jul-23	136	62	21	16.85	18.54
24-Jul-23	140	64	23	14.71	14.52
25-Jul-23	138	61	22	11.96	16.00
01-Aug-23	156	73	28	10.25	17.56
02-Aug-23	141	61	23	13.56	14.18
07-Aug-23	154	71	27	13.58	16.58
08-Aug-23	143	62	23	12.28	14.25
16-Aug-23	152	71	27	15.47	16.58
17-Aug-23	143	63	24	11.58	14.56
23-Aug-23	158	77	29	13.89	19.85
24-Aug-23	146	66	25	11.52	16.58
30-Aug-23	154	71	27	14.58	17.45

31-Aug-23	141	62	23	16.58	16.45
01-Sep-23	150	68	26	11.59	16.45
02-Sep-23	161	82	30	12.58	18.60
08-Sep-23	163	83	32	15.77	16.45
09-Sep-23	143	63	24	20.67	21.93
18-Sep-23	147	65	25	23.37	18.09
19-Sep-23	138	60	22	18.08	13.71
27-Sep-23	165	84	32	22.26	16.45
28-Sep-23	162	79	30	21.75	17.20
03-Oct-23	155	75	28	23.89	18.09
04-Oct-23	172	88	34	17.87	15.02
09-Oct-23	158	78	29	20.63	16.45
10-Oct-23	154	74	27	16.67	13.02
16-Oct-23	144	65	24	20.14	14.88
17-Oct-23	158	78	29	10.16	15.02
25-Oct-23	164	83	31	17.16	17.82
26-Oct-23	155	74	27	19.73	18.69
30-Oct-23	178	87	36	19.94	16.45
31-Oct-23	172	80	34	19.01	18.51
06-Nov-23	174	83	32	12.41	13.72
07-Nov-23	185	89	38	11.19	13.72
13-Nov-23	194	92	40	10.77	12.53
14-Nov-23	169	82	31	10.39	11.85
18-Nov-23	174	79	32	12.12	11.85
20-Nov-23	178	84	35	11.11	12.00
27-Nov-23	176	88	36	14.72	16.21
28-Nov-23	196	92	41	18.14	16.33
04-Dec-23	174	82	33	13.60	17.67
05-Dec-23	195	93	39	14.12	12.67
11-Dec-23	168	79	30	13.43	15.20
12-Dec-23	180	86	35	12.11	10.99
20-Dec-23	175	84	33	14.19	18.14
21-Dec-23	193	92	39	13.26	15.41
26-Dec-23	168	82	30	12.34	14.54
27-Dec-23	182	86	35	14.58	16.41
01-Jan-24	162	82	30	10.36	12.52
02-Jan-24	174	88	36	13.28	16.98
08-Jan-24	163	83	30	11.57	14.22
09-Jan-24	166	86	33	15.85	12.26
16-Jan-24	165	84	32	11.65	13.02
17-Jan-24	174	88	35	10.21	15.02
22-Jan-24	184	91	38	14.11	20.37
23-Jan-24	170	87	34	10.92	19.58
30-Jan-24	152	71	26	10.45	17.17
31-Jan-24	163	82	30	10.95	15.51
03-Feb-24	164	84	32	13.82	19.09
05-Feb-24	160	76	28	10.27	14.11
09-Feb-24	193	92	39	14.01	22.37
10-Feb-24	158	75	28	10.47	15.40
19-Feb-24	176	85	33	12.65	12.73
20-Feb-24	172	82	30	11.55	11.02
26-Feb-24	182	88	36	15.24	11.32
27-Feb-24	192	93	39	14.41	13.84

01-Mar-24	160	74	27	14.34	16.13
02-Mar-24	148	66	23	17.10	21.48
08-Mar-24	198	95	43	16.15	16.16
09-Mar-24	176	84	35	15.45	17.01
18-Mar-24	202	92	41	10.52	17.58
19-Mar-24	206	96	44	14.56	13.52
27-Mar-24	205	93	40	13.26	16.74
28-Mar-24	156	75	27	10.45	12.98
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	206	96	44	23.89	23.52
Minimum	135	57	20	10	11
Average	161.12	76.43	29.60	14.13	15.88
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Talcher Area

Project: Nandira UGP

Table 38

Monitoring Station: Nandira Colony (Reference Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	146	70	26	13.95	17.58
06-Apr-23	138	61	22	12.76	18.86
12-Apr-23	155	75	28	13.52	16.77
13-Apr-23	164	84	32	12.56	10.52
19-Apr-23	150	69	26	12.86	15.43
20-Apr-23	157	76	29	16.74	12.65
26-Apr-23	164	82	31	10.56	15.85
27-Apr-23	162	81	30	13.41	15.74
04-May-23	154	71	27	15.42	13.52
05-May-23	161	79	30	18.57	19.58
10-May-23	145	66	25	15.42	20.52
11-May-23	138	61	22	18.57	14.58
18-May-23	146	65	25	15.40	18.54
19-May-23	158	78	29	16.52	19.57
24-May-23	163	83	32	13.56	14.58
25-May-23	160	80	30	16.54	13.52
05-Jun-23	150	68	26	13.41	15.46
06-Jun-23	138	61	22	13.56	17.56
12-Jun-23	143	63	24	17.89	16.52
13-Jun-23	136	59	21	16.74	14.62
19-Jun-23	137	61	22	14.52	13.56
20-Jun-23	162	81	30	13.56	18.54
26-Jun-23	156	73	28	14.55	16.55
27-Jun-23	145	66	25	13.56	17.58
29-Jun-23	153	74	27	14.58	16.58
30-Jun-23	154	68	26	12.95	14.65
05-Jul-23	146	67	25	12.56	17.58
06-Jul-23	144	63	24	11.21	13.65
12-Jul-23	159	76	29	13.65	16.58
13-Jul-23	152	71	27	13.25	17.58
19-Jul-23	157	79	29	13.56	11.75
20-Jul-23	162	83	31	13.52	17.68
26-Jul-23	153	73	27	11.69	13.98
27-Jul-23	145	69	25	13.59	16.52
03-Aug-23	150	68	26	10.25	13.58
04-Aug-23	138	61	22	13.52	14.52
09-Aug-23	143	63	24	10.25	14.56
10-Aug-23	136	59	21	12.26	10.25
18-Aug-23	155	73	28	13.52	13.56
19-Aug-23	164	81	32	12.12	16.86
25-Aug-23	152	67	25	14.58	13.52
26-Aug-23	153	71	27	16.41	17.85
04-Sep-23	157	78	29	15.00	20.03

05-Sep-23	155	75	28	12.65	17.95
11-Sep-23	152	69	26	15.37	10.18
12-Sep-23	161	82	30	11.13	12.34
20-Sep-23	146	66	25	23.23	18.60
21-Sep-23	154	74	28	20.23	16.45
25-Sep-23	151	72	27	25.44	19.58
26-Sep-23	161	82	30	17.71	20.94
29-Sep-23	145	68	25	14.84	24.28
30-Sep-23	165	85	33	16.40	12.99
05-Oct-23	174	86	33	21.72	17.95
06-Oct-23	158	77	29	22.71	19.31
11-Oct-23	172	86	34	23.81	17.23
12-Oct-23	152	72	26	24.54	18.51
18-Oct-23	182	90	37	13.66	16.45
19-Oct-23	170	82	34	10.07	16.52
27-Oct-23	186	92	38	15.68	20.19
28-Oct-23	172	86	35	12.58	20.03
01-Nov-23	195	90	39	11.38	13.72
02-Nov-23	178	86	35	13.56	16.84
08-Nov-23	174	82	33	12.99	13.72
09-Nov-23	168	80	31	16.02	17.64
16-Nov-23	180	85	36	14.81	19.60
17-Nov-23	188	90	40	16.16	16.84
24-Nov-23	194	94	42	15.18	12.53
25-Nov-23	183	86	37	14.02	14.29
01-Dec-23	185	89	37	16.28	11.24
02-Dec-23	175	85	33	12.62	16.53
08-Dec-23	191	90	38	11.40	13.88
09-Dec-23	174	81	32	13.01	15.69
18-Dec-23	186	89	37	10.36	13.41
19-Dec-23	176	84	33	11.25	15.44
22-Dec-23	191	90	38	13.45	14.66
23-Dec-23	174	81	32	13.85	16.64
29-Dec-23	184	88	36	12.35	18.41
30-Dec-23	195	92	40	12.45	15.63
03-Jan-24	176	89	36	12.33	14.74
04-Jan-24	188	94	40	10.52	13.58
10-Jan-24	168	86	33	10.26	12.69
11-Jan-24	164	81	32	11.89	17.88
18-Jan-24	161	83	30	11.23	13.68
19-Jan-24	168	85	32	14.56	12.59
24-Jan-24	151	78	29	13.74	16.98
25-Jan-24	161	86	35	12.69	14.12
01-Feb-24	180	84	32	11.93	14.50
02-Feb-24	186	91	38	13.04	18.48
07-Feb-24	164	80	30	13.08	14.78
08-Feb-24	166	84	32	14.07	11.78
16-Feb-24	172	84	31	16.17	17.73
17-Feb-24	180	86	34	16.11	13.31
23-Feb-24	168	82	30	15.26	15.94
24-Feb-24	195	93	40	11.71	14.64
28-Feb-24	165	78	29	14.99	15.64
29-Feb-24	175	84	33	16.77	11.15

04-Mar-24	194	92	40	12.08	10.38
05-Mar-24	175	85	33	14.59	20.32
11-Mar-24	196	94	42	12.52	12.12
12-Mar-24	206	97	46	14.17	14.60
20-Mar-24	191	92	38	10.85	13.56
21-Mar-24	182	85	36	14.56	19.84
29-Mar-24	196	94	40	16.54	12.48
30-Mar-24	190	86	38	11.96	14.58
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	206	97	46	25.44	24.28
Minimum	136	59	21	10	10
Average	165.06	79.00	30.98	14.36	15.75
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Talcher Area

Project: Deulbera UGP

Table 39

Monitoring Station: IWSS (Reported Only) (Compliance Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
08-Apr-23	195	95	44	10.52	14.52
21-Apr-23	199	94	45	12.56	17.58
12-May-23	193	91	43	13.56	18.12
26-May-23	186	91	40	12.52	16.54
07-Jun-23	180	90	38	14.58	15.58
21-Jun-23	163	80	32	17.58	13.52
07-Jul-23	182	90	39	19.58	12.25
22-Jul-23	189	94	42	14.52	16.21
11-Aug-23	192	91	40	13.58	16.52
22-Aug-23	195	91	43	12.25	16.58
07-Sep-23	187	89	41	13.55	20.03
29-Sep-23	186	91	40	16.69	18.69
07-Oct-23	215	142	58	25.56	19.74
31-Oct-23	247	140	52	17.49	18.80
10-Nov-23	270	170	64	12.70	14.32
22-Nov-23	278	178	68	14.14	16.84
07-Dec-23	246	165	62	10.58	11.24
28-Dec-23	252	162	60	16.35	19.31
13-Jan-24	246	158	62	11.12	14.58
27-Jan-24	268	166	64	11.69	17.95
12-Feb-24	235	132	48	12.21	16.53
21-Feb-24	258	148	57	18.61	19.03
07-Mar-24	263	146	58	11.56	15.88
22-Mar-24	265	158	59	14.59	17.58
Brief Statistics	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	278	178	68	25.56	20.03
Minimum	163	80	32	11	11
Average	220.42	123.00	49.96	14.50	16.58
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Talcher Area

Project: Handhidhua Colliery

Table 40

Monitoring Station: Manager's Office (Compliance Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
15-Apr-23	157	79	29	12.56	16.56
29-Apr-23	193	91	41	11.69	13.58
06-May-23	193	314	58	13.21	17.32
26-May-23	185	76	40	15.54	18.52
15-Jun-23	181	87	38	16.52	18.45
28-Jun-23	195	94	43	13.12	18.74
15-Jul-23	192	91	43	10.52	17.58
22-Jul-23	180	60	38	11.36	18.97
12-Aug-23	181	87	38	13.25	14.58
30-Aug-23	143	67	24	11.52	14.58
12-Sep-23	186	91	40	18.39	11.44
30-Sep-23	186	91	40	12.06	19.19
14-Oct-23	228	145	56	22.73	18.69
21-Oct-23	242	142	54	15.77	18.61
11-Nov-23	255	156	58	12.42	14.91
29-Nov-23	272	170	64	12.09	14.37
14-Dec-23	272	180	68	11.40	19.09
30-Dec-23	228	154	56	16.52	18.78
13-Jan-24	248	158	62	14.52	16.58
27-Jan-24	253	152	59	11.23	13.56
15-Feb-24	182	90	37	11.94	12.54
27-Feb-24	249	154	56	15.98	16.79
15-Mar-24	234	132	50	14.12	11.02
25-Mar-24	237	145	52	13.54	12.54
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	272	314	68	22.73	19.19
Minimum	143	60	24	11	11
Average	211.33	125.25	47.67	13.83	16.12
Standard (24 Hrs)	500	250		120	120
Standard (Annual)				80	80

Area: Talcher Area

Project: Mandapal Sand Mine

Table 41

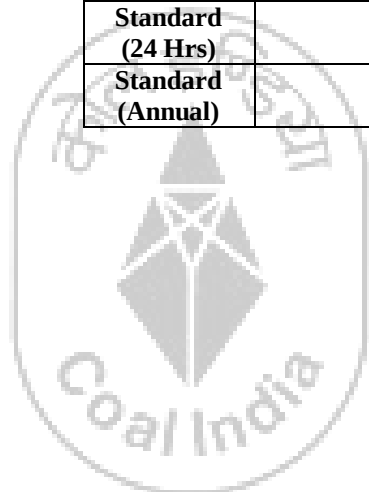
Monitoring Station: Near Mandapal Chowk (Reference Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	162	83	31	15.52	17.58
06-Apr-23	147	69	25	12.56	18.56
12-Apr-23	138	60	22	11.52	14.52
13-Apr-23	134	57	20	13.52	15.58
19-Apr-23	153	74	27	12.85	16.52
20-Apr-23	147	67	25	10.25	12.05
26-Apr-23	137	61	22	14.52	18.65
27-Apr-23	143	64	24	11.74	15.95
04-May-23	156	73	28	16.25	15.65
05-May-23	165	81	32	18.45	18.57
10-May-23	153	71	27	11.52	13.00
11-May-23	144	67	24	13.52	13.58
18-May-23	164	80	32	18.56	15.53
19-May-23	146	65	25	11.56	16.58
24-May-23	163	91	32	13.52	15.54
25-May-23	158	78	29	15.85	18.56
05-Jun-23	139	62	23	13.52	16.52
06-Jun-23	155	75	28	14.58	19.85
12-Jun-23	164	84	32	16.58	17.56
13-Jun-23	158	79	29	11.86	19.65
19-Jun-23	146	66	25	16.54	15.85
20-Jun-23	140	62	23	10.95	13.56
26-Jun-23	140	69	26	18.54	13.56
27-Jun-23	155	73	28	16.58	12.52
29-Jun-23	161	79	30	13.55	18.54
30-Jun-23	142	62	23	17.83	15.82
05-Jul-23	180	88	38	14.56	13.52
06-Jul-23	168	85	34	13.26	16.74
12-Jul-23	164	83	32	10.45	12.98
13-Jul-23	177	86	37	13.56	11.75
19-Jul-23	189	93	42	13.26	15.36
20-Jul-23	185	89	40	14.39	16.78
26-Jul-23	177	85	37	12.52	18.38
27-Jul-23	164	90	48	15.70	18.60
03-Aug-23	139	61	30	10.52	13.56
04-Aug-23	155	75	28	13.56	15.58
09-Aug-23	164	84	32	14.52	16.58
10-Aug-23	158	77	29	10.52	12.58
18-Aug-23	181	89	38	13.98	16.45
19-Aug-23	172	86	35	11.52	16.35

25-Aug-23	178	88	37	13.85	14.77
26-Aug-23	186	92	40	14.12	15.58
04-Sep-23	173	87	36	13.15	12.71
05-Sep-23	190	94	42	11.61	20.03
11-Sep-23	179	89	38	18.02	22.72
12-Sep-23	186	92	40	19.22	25.42
20-Sep-23	180	90	38	15.77	15.08
21-Sep-23	164	84	32	14.03	18.60
25-Sep-23	172	84	35	13.55	16.45
26-Sep-23	176	89	37	18.02	21.93
29-Sep-23	168	84	34	13.15	20.94
30-Sep-23	182	91	38	14.67	11.96
05-Oct-23	224	140	55	19.58	16.45
06-Oct-23	242	148	58	20.83	16.45
11-Oct-23	248	154	60	25.60	19.31
12-Oct-23	238	90	57	14.14	20.60
18-Oct-23	268	158	63	17.49	14.10
19-Oct-23	252	145	56	10.67	17.14
27-Oct-23	274	165	66	13.06	16.45
28-Oct-23	262	152	60	14.67	15.70
01-Nov-23	188	90	38	10.21	12.53
02-Nov-23	176	86	35	12.99	14.97
08-Nov-23	192	92	39	14.02	15.43
09-Nov-23	198	93	41	15.46	14.91
16-Nov-23	195	93	40	12.99	16.84
17-Nov-23	182	88	36	11.90	15.43
24-Nov-23	178	83	34	14.08	16.70
25-Nov-23	186	91	38	15.72	17.64
01-Dec-23	196	89	40	11.75	12.73
02-Dec-23	173	81	32	14.24	15.87
08-Dec-23	175	84	33	10.88	15.78
09-Dec-23	180	87	35	20.81	12.07
18-Dec-23	184	87	36	11.23	16.41
19-Dec-23	173	93	32	14.34	17.61
22-Dec-23	184	90	38	15.55	16.41
23-Dec-23	176	84	33	18.32	14.41
29-Dec-23	185	88	37	17.38	15.44
30-Dec-23	169	82	31	16.32	18.53
03-Jan-24	158	79	29	12.28	14.57
04-Jan-24	182	90	38	14.25	11.56
10-Jan-24	196	94	41	13.52	17.58
11-Jan-24	180	88	37	12.69	15.77
18-Jan-24	154	72	26	14.98	16.58
19-Jan-24	160	76	28	11.65	14.98
24-Jan-24	174	88	35	13.45	16.66
25-Jan-24	194	92	39	16.58	12.58
01-Feb-24	164	82	31	13.54	16.34
02-Feb-24	192	83	40	11.94	15.39
07-Feb-24	176	81	35	14.71	18.68
08-Feb-24	182	84	37	20.22	19.94

16-Feb-24	184	82	31	14.76	12.07
17-Feb-24	189	83	37	18.65	11.73
23-Feb-24	194	81	39	16.57	12.07
24-Feb-24	174	84	32	15.82	11.36
28-Feb-24	160	72	26	19.68	20.16
29-Feb-24	172	83	30	15.25	19.80
04-Mar-24	173	83	31	13.61	19.56
05-Mar-24	166	78	29	13.15	11.64
11-Mar-24	178	86	35	17.04	16.06
12-Mar-24	188	91	38	13.11	22.55
20-Mar-24	175	83	34	13.56	10.52
21-Mar-24	168	80	32	15.12	18.45
29-Mar-24	194	88	40	12.56	18.56
30-Mar-24	198	91	42	16.58	16.89
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	274	165	66	25.6	25.42
Minimum	134	57	20	10	11
Average	176.35	86.48	35.13	14.55	16.15
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40



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Area: Talcher Area

Project: Mandapal Sand Mine

Table 42

Monitoring Station: Near Pachismeshwar Temple (Reference Station)

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-23	154	73	27	13.05	16.85
06-Apr-23	137	60	21	10.52	15.88
12-Apr-23	142	62	23	14.58	17.58
13-Apr-23	142	62	23	13.54	16.58
19-Apr-23	160	82	30	17.58	14.89
20-Apr-23	141	62	23	12.26	13.75
26-Apr-23	146	67	25	11.52	14.58
27-Apr-23	157	76	29	13.12	17.45
04-May-23	179	86	38	16.58	15.74
05-May-23	175	68	26	13.52	15.52
10-May-23	141	61	23	12.25	18.54
11-May-23	164	80	32	10.52	13.58
18-May-23	157	77	29	13.52	18.54
19-May-23	149	69	26	14.52	19.52
24-May-23	143	63	24	16.52	18.54
25-May-23	138	61	22	19.58	13.56
05-Jun-23	166	84	33	13.56	22.56
06-Jun-23	153	71	27	14.85	16.31
12-Jun-23	146	66	25	17.85	20.18
13-Jun-23	157	78	29	13.56	18.94
19-Jun-23	164	81	32	19.54	13.54
20-Jun-23	146	66	25	15.59	12.56
26-Jun-23	141	62	23	13.65	17.58
27-Jun-23	144	64	24	12.56	13.00
29-Jun-23	138	60	22	13.58	16.58
30-Jun-23	164	83	32	13.11	12.21
05-Jul-23	186	91	40	13.52	17.68
06-Jul-23	189	94	42	11.69	13.98
12-Jul-23	182	88	39	13.59	16.52
13-Jul-23	175	87	36	11.36	18.97
19-Jul-23	166	82	33	11.95	16.75
20-Jul-23	184	90	39	12.58	17.52
26-Jul-23	154	85	37	13.96	14.71
27-Jul-23	173	86	35	13.55	18.65
03-Aug-23	166	84	33	12.58	16.58
04-Aug-23	153	73	28	15.67	17.58
09-Aug-23	146	68	26	10.58	12.58
10-Aug-23	164	84	33	14.58	13.58
18-Aug-23	175	88	36	17.58	19.54
19-Aug-23	182	90	38	16.58	13.12
25-Aug-23	165	83	32	16.55	17.58

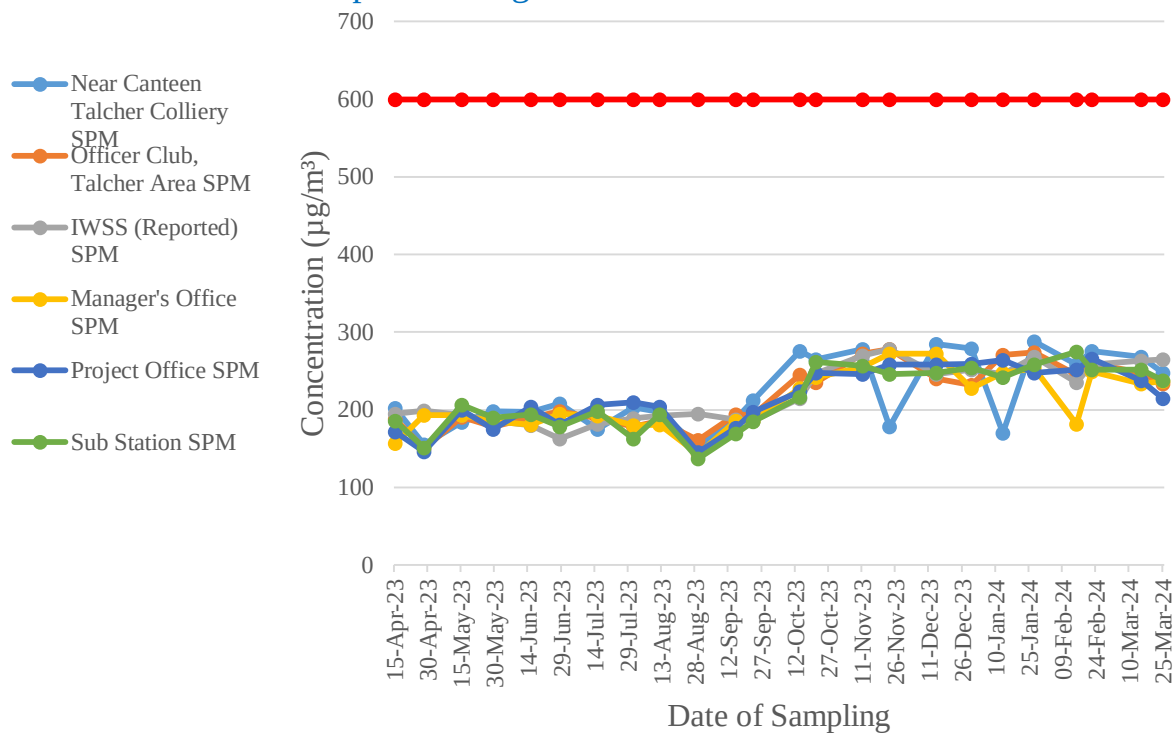
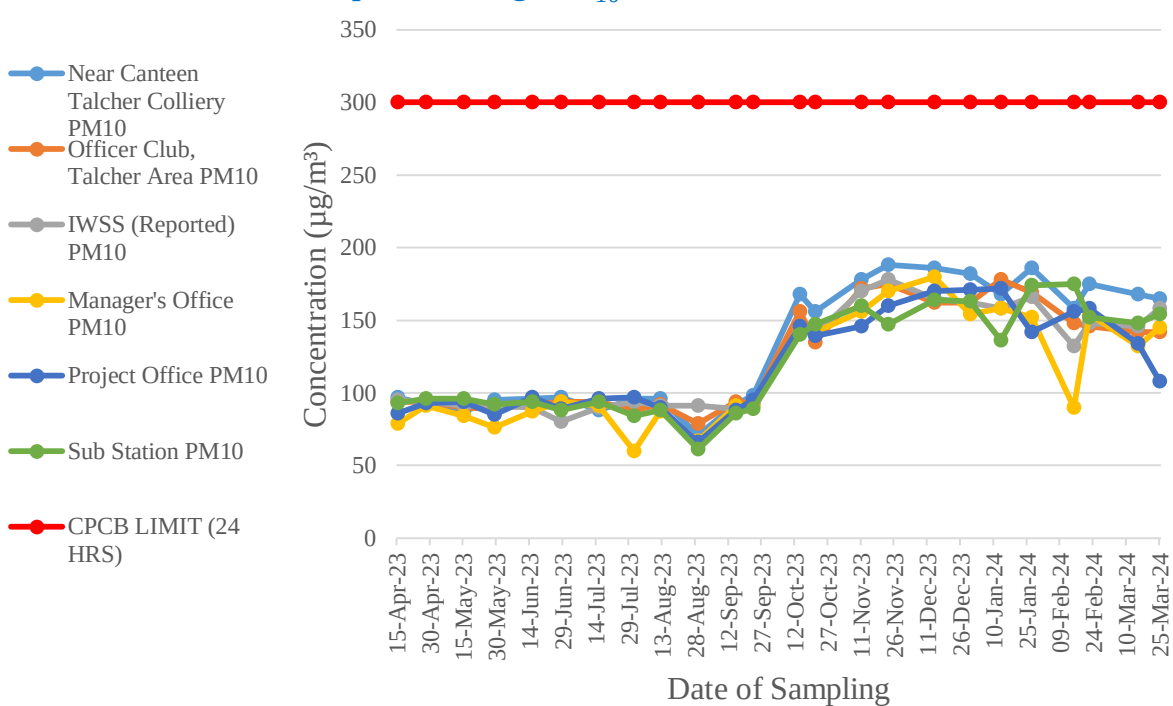
26-Aug-23	170	86	35	10.52	13.25
04-Sep-23	172	86	35	15.00	17.88
05-Sep-23	183	91	39	12.98	12.34
11-Sep-23	188	93	41	14.67	14.21
12-Sep-23	178	88	37	10.67	17.14
20-Sep-23	180	90	38	12.65	21.68
21-Sep-23	173	87	35	13.78	21.93
25-Sep-23	167	86	34	14.84	14.88
26-Sep-23	163	83	32	13.06	18.60
29-Sep-23	174	87	36	12.06	16.45
30-Sep-23	156	77	29	16.43	16.45
05-Oct-23	208	132	49	12.63	21.02
06-Oct-23	214	138	52	12.08	20.50
11-Oct-23	224	139	54	10.65	20.03
12-Oct-23	210	135	51	13.23	20.74
18-Oct-23	236	135	48	11.13	14.10
19-Oct-23	248	142	55	12.24	11.51
27-Oct-23	240	146	49	12.72	11.75
28-Oct-23	244	151	52	15.33	14.95
01-Nov-23	182	88	36	15.08	12.00
02-Nov-23	174	84	32	14.21	18.95
08-Nov-23	188	90	37	12.70	16.84
09-Nov-23	196	93	40	12.97	12.97
16-Nov-23	194	94	42	13.85	11.23
17-Nov-23	190	92	39	16.33	16.33
24-Nov-23	185	86	37	14.92	15.78
25-Nov-23	196	92	40	11.54	13.10
01-Dec-23	194	92	40	20.30	13.88
02-Dec-23	196	95	42	19.13	17.19
08-Dec-23	185	86	37	17.09	15.14
09-Dec-23	172	82	31	16.74	10.99
18-Dec-23	174	84	33	15.78	14.46
19-Dec-23	195	94	42	15.23	19.41
22-Dec-23	178	80	34	14.79	17.12
23-Dec-23	182	87	35	13.78	16.15
29-Dec-23	175	86	33	12.98	13.55
30-Dec-23	164	76	28	14.32	16.58
03-Jan-24	162	82	30	11.21	14.57
04-Jan-24	175	84	36	12.96	14.58
10-Jan-24	181	91	38	10.56	13.57
11-Jan-24	165	84	32	11.21	12.52
18-Jan-24	168	86	33	15.85	17.33
19-Jan-24	163	82	31	12.98	12.58
24-Jan-24	155	74	27	13.69	10.52
25-Jan-24	176	89	36	14.56	17.58
01-Feb-24	156	74	27	11.70	11.66
02-Feb-24	164	84	32	17.30	16.03
07-Feb-24	168	86	33	10.35	14.25
08-Feb-24	163	83	31	14.78	15.64
16-Feb-24	196	95	42	14.88	20.83

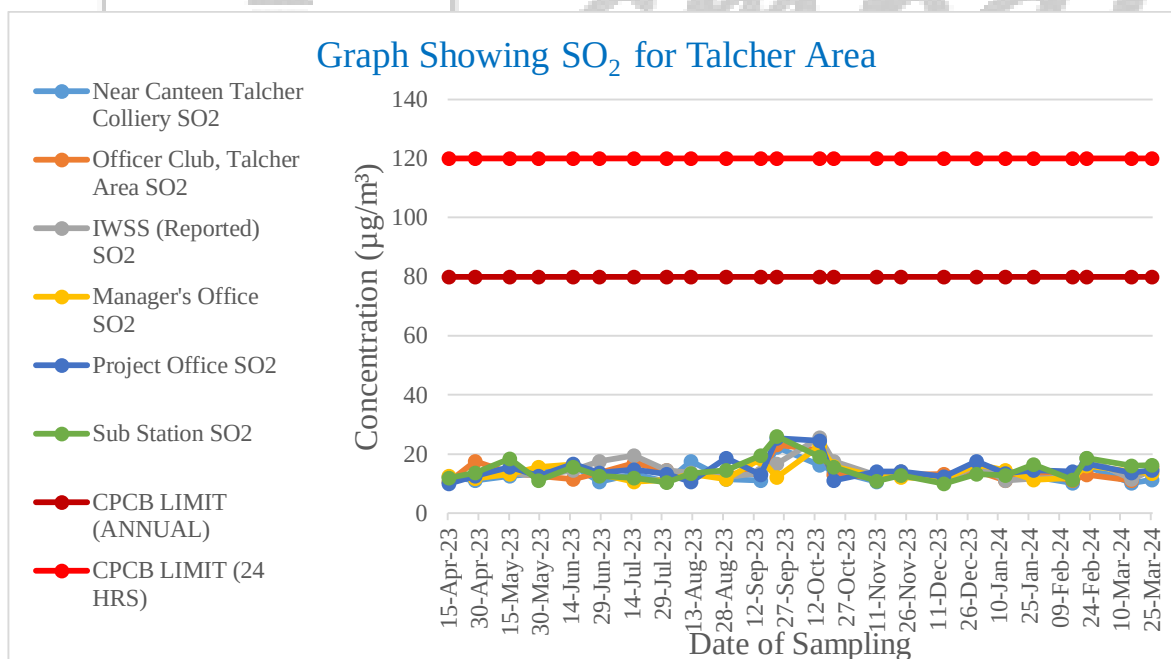
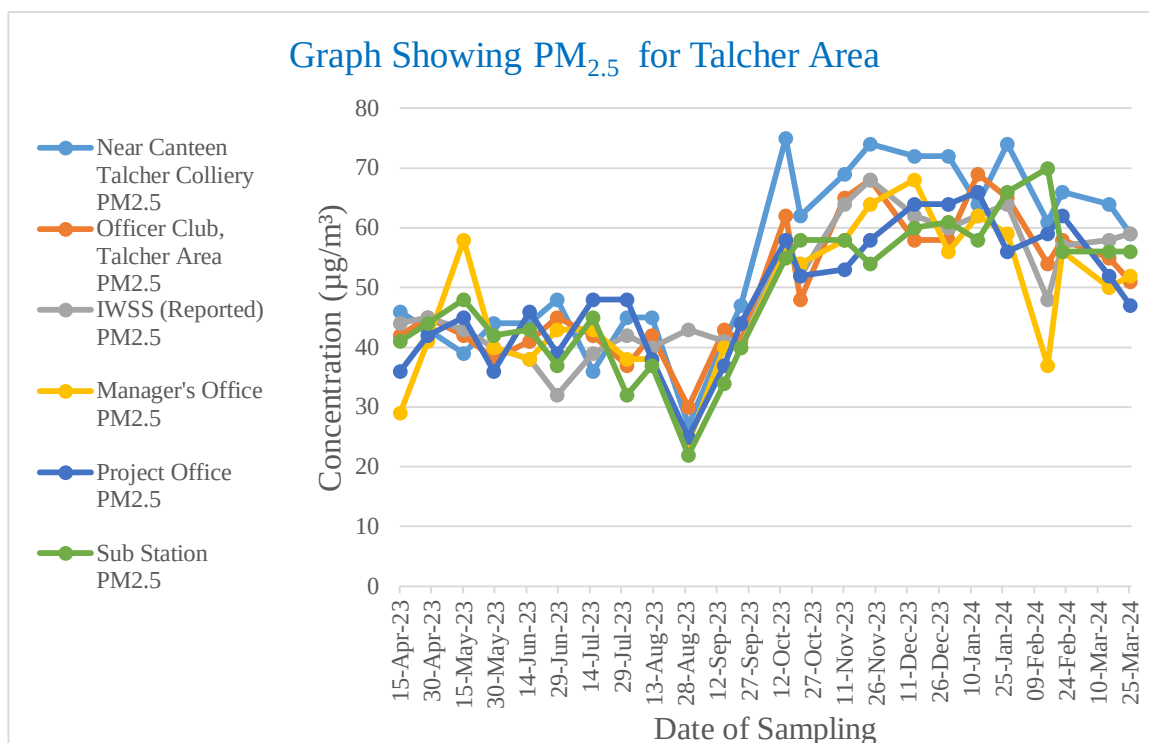
17-Feb-24	188	91	38	16.00	19.28
23-Feb-24	178	88	35	15.50	12.68
24-Feb-24	195	92	41	16.16	11.41
28-Feb-24	185	90	37	18.63	12.38
29-Feb-24	174	85	32	13.70	14.08
04-Mar-24	162	73	27	17.28	17.01
05-Mar-24	169	82	30	13.61	20.94
11-Mar-24	174	84	32	13.39	16.96
12-Mar-24	184	88	36	13.68	18.13
20-Mar-24	184	86	37	12.23	15.54
21-Mar-24	172	85	33	10.89	12.56
29-Mar-24	178	88	34	13.58	19.56
30-Mar-24	192	90	38	15.46	17.89
Brief Statistics	SPM	PM10	PM2.5	SO2	NOX
Maximum	248	151	55	20.3	22.56
Minimum	137	60	21	10	11
Average	173.84	86.21	34.20	14.02	15.97
Standard (24 Hrs)		100	60	80	80
Standard (Annual)		60	40	50	40

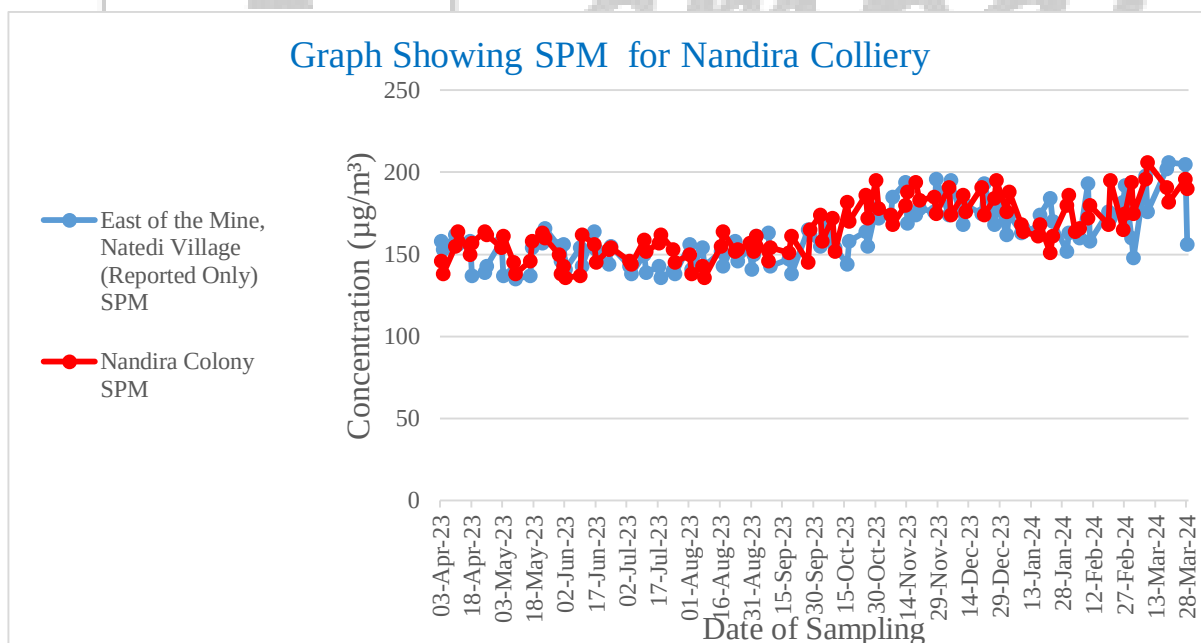
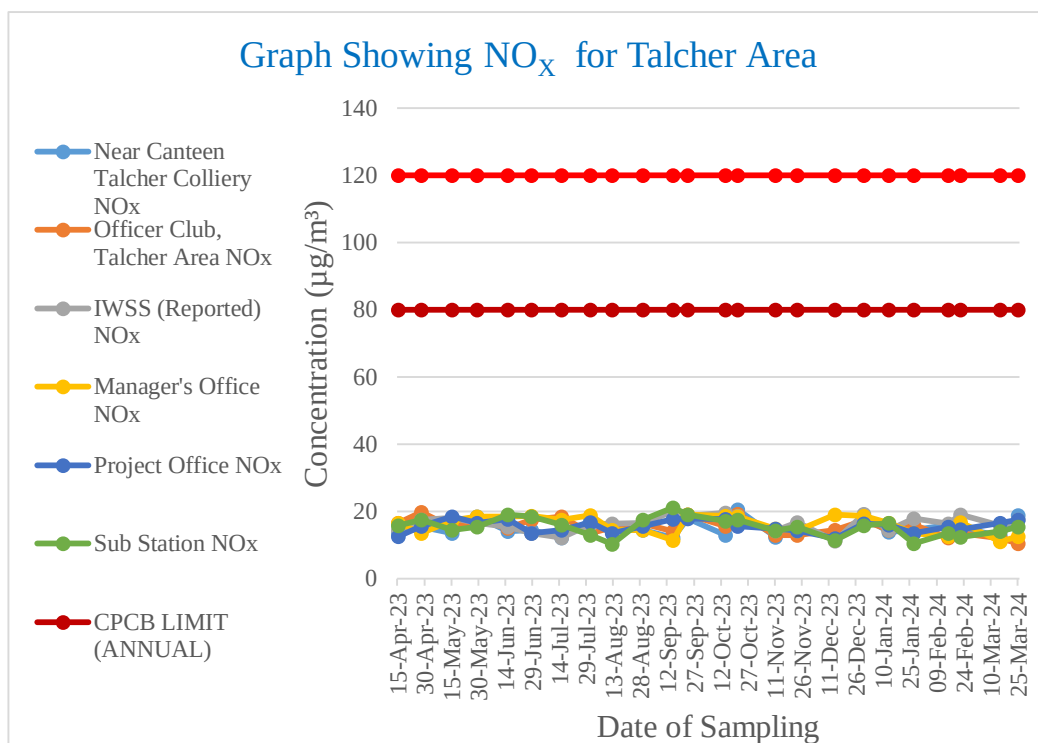


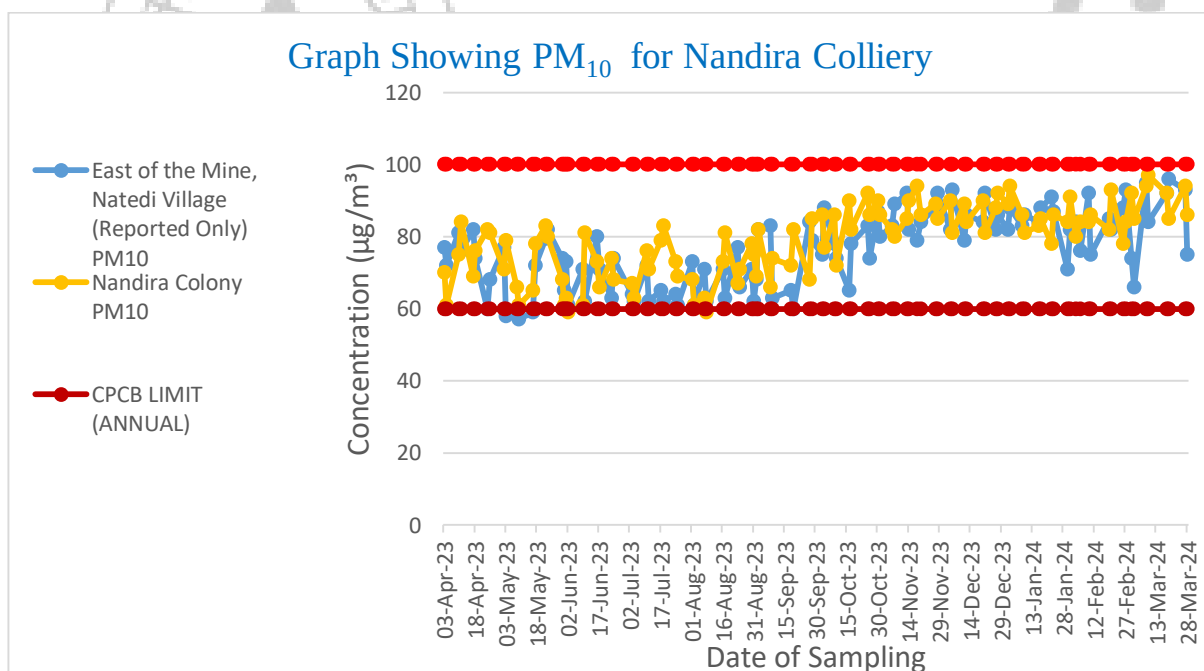
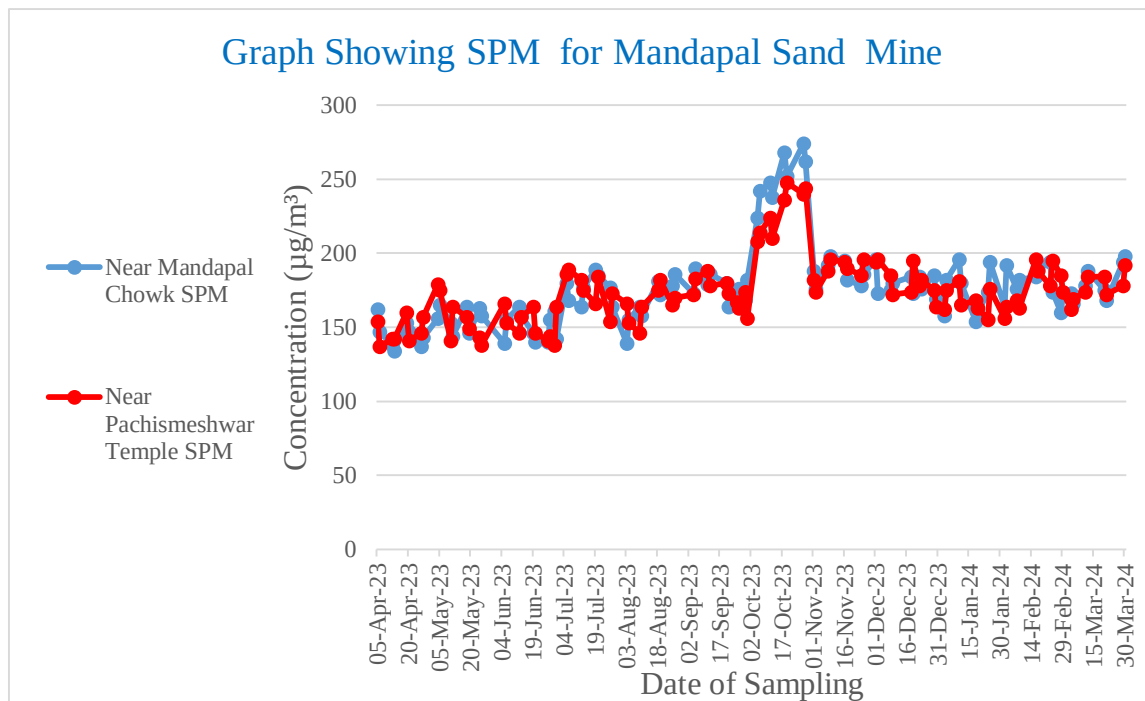
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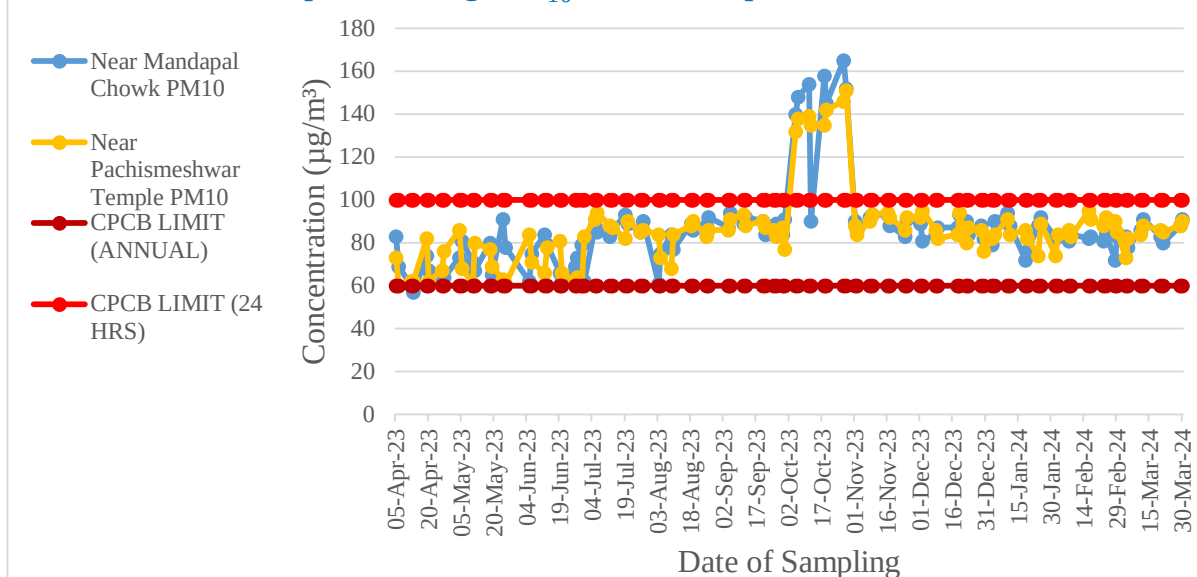
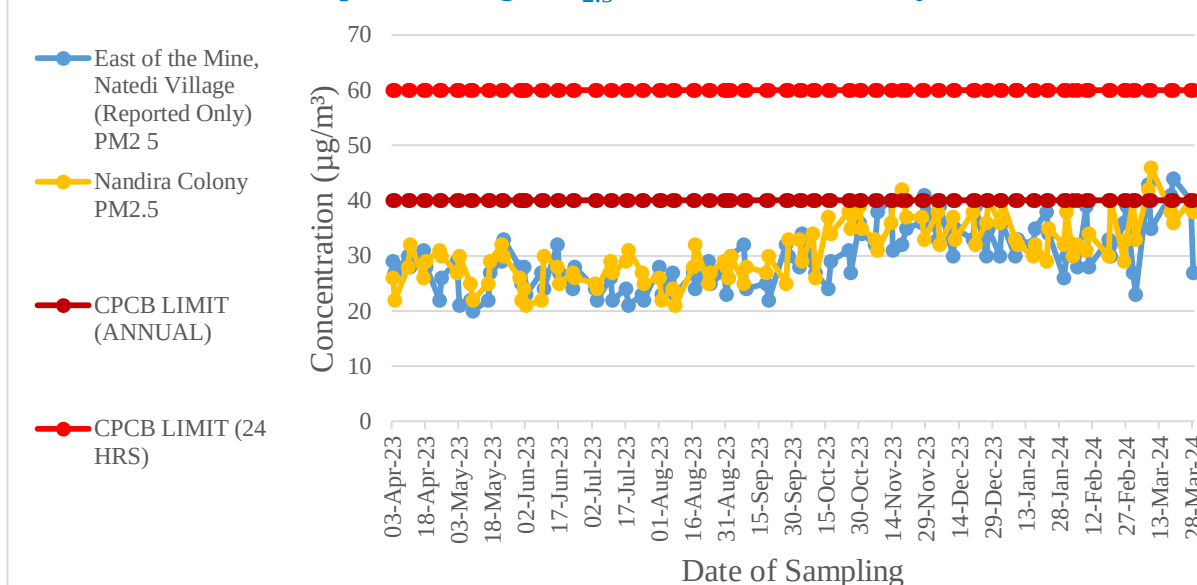
Graph Showing SPM for Talcher Area

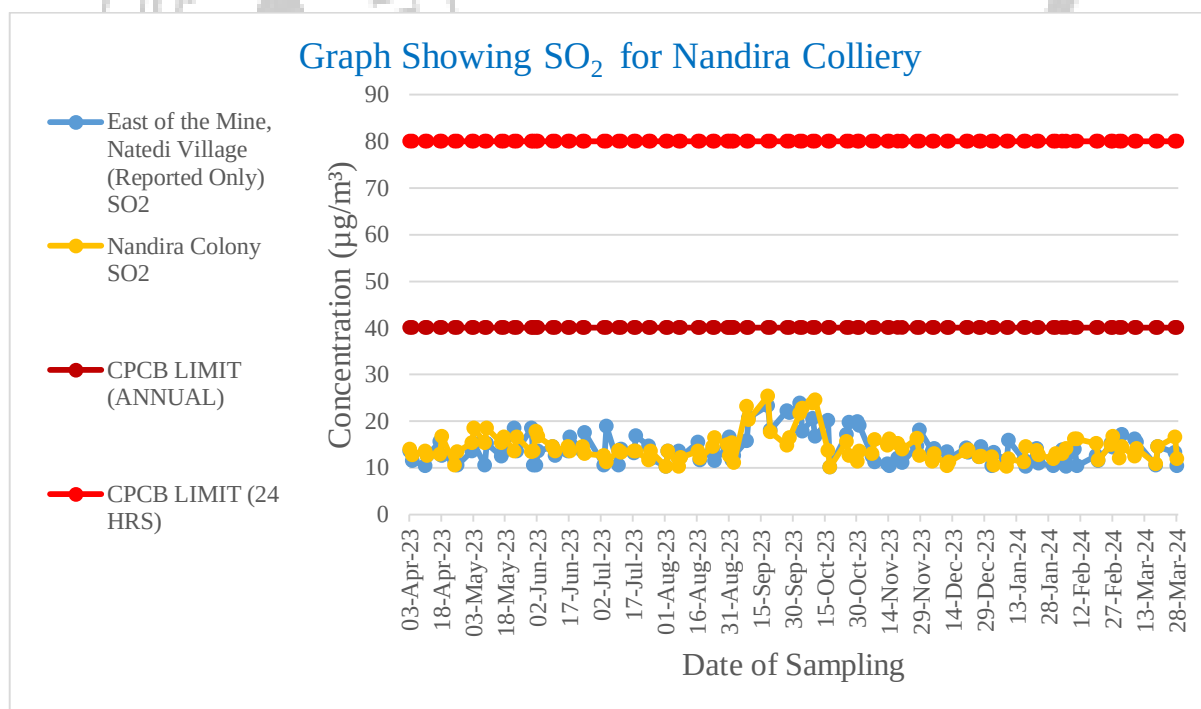
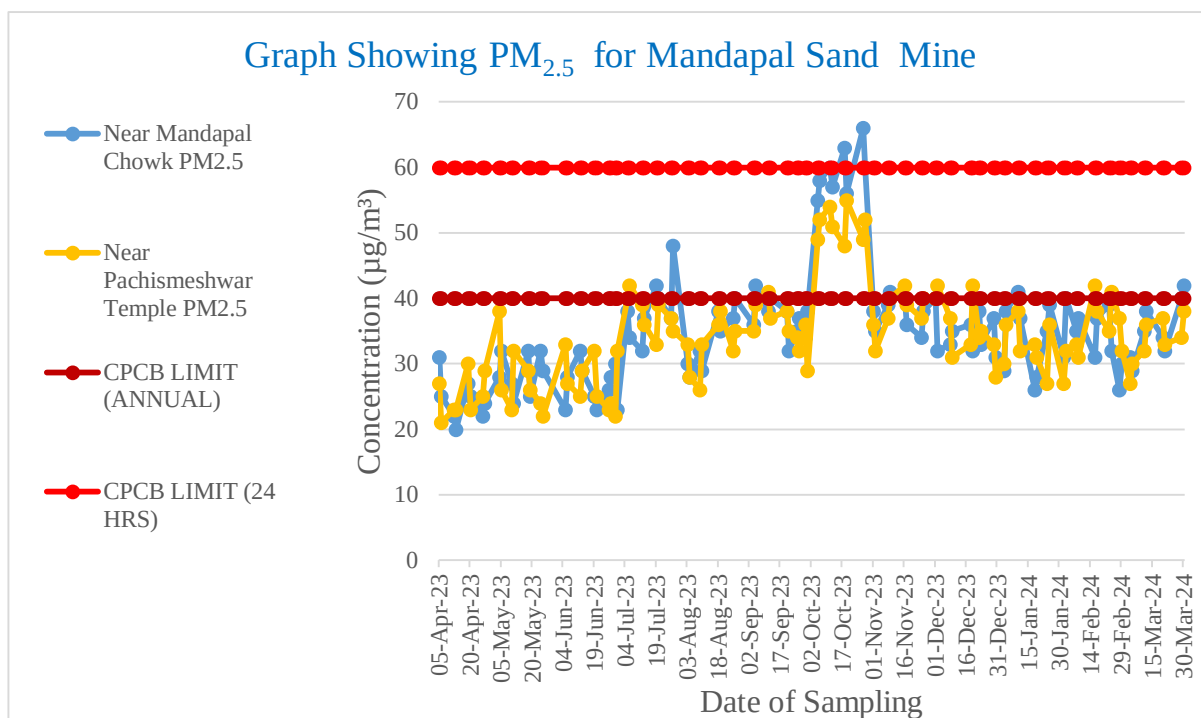
Graph Showing PM₁₀ for Talcher Area

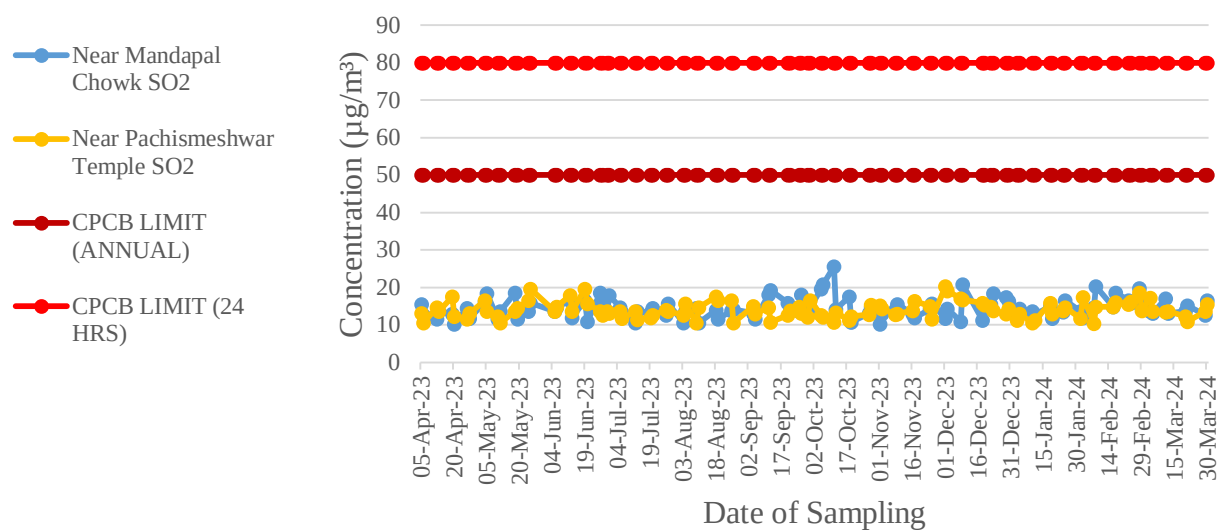
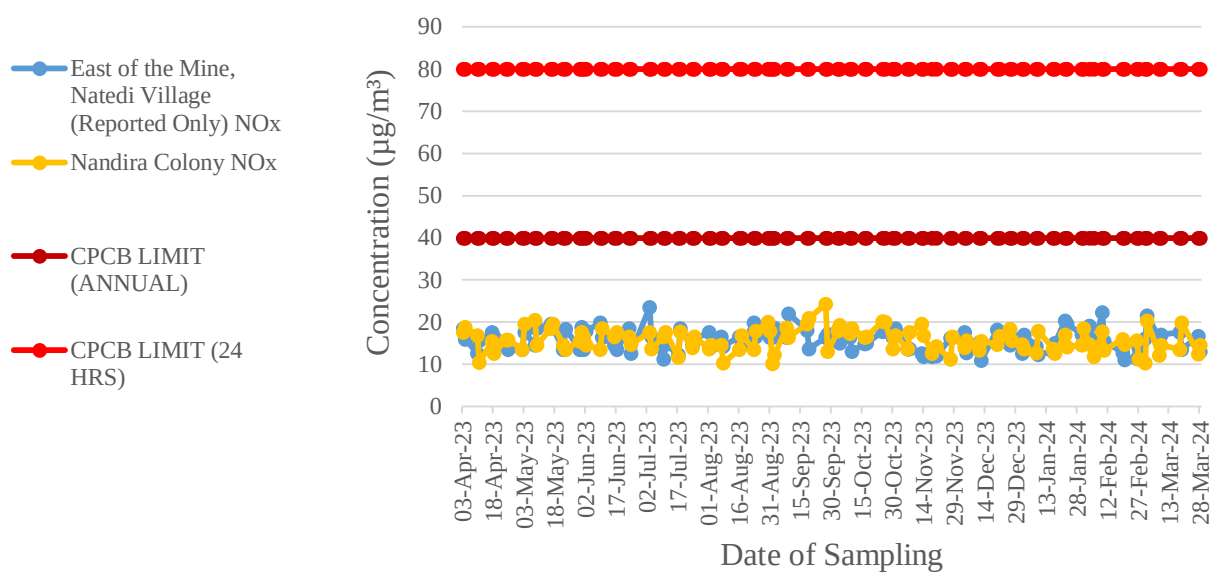


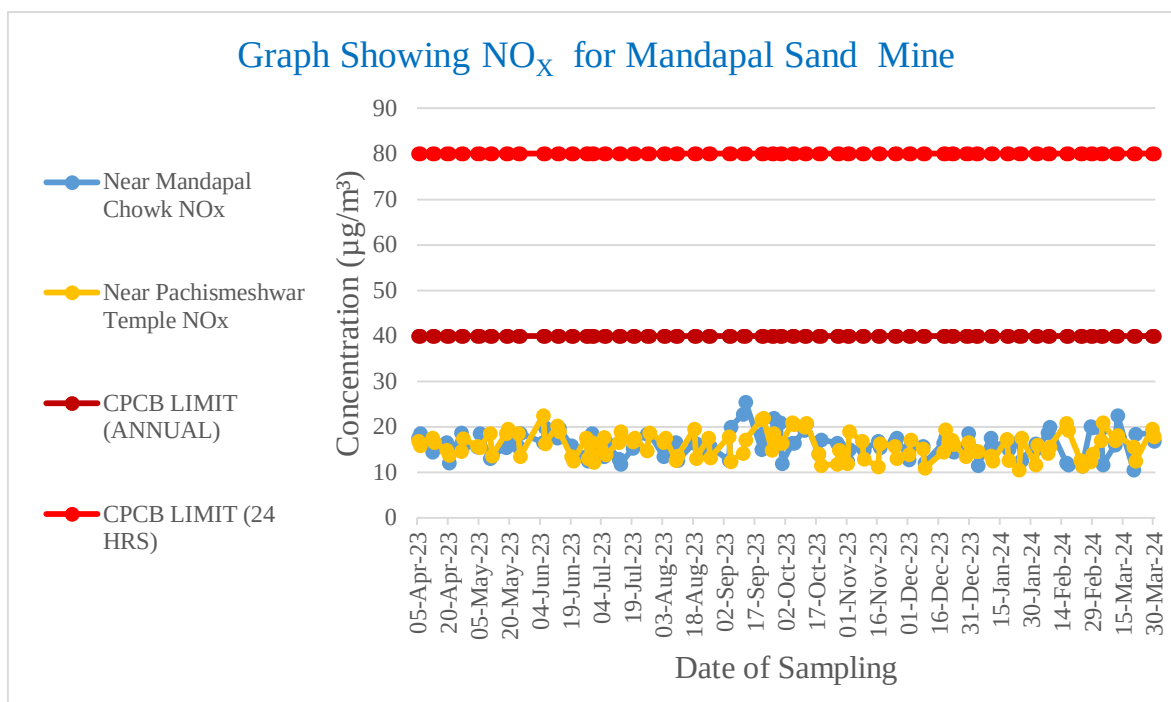




Graph Showing PM₁₀ for Mandapal Sand MineGraph Showing PM_{2.5} for Nandira Colliery



Graph Showing SO₂ for Mandapal Sand MineGraph Showing NO_x for Nandira Colliery



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8.6 EXECUTIVE SUMMARY OF AAQM

Observation for PM₁₀

PM₁₀ at Compliance stations ranges from 57.0 µg/m³ (OB Dump no.10, North side of Lingraj OCP) to 314.0 µg/m³ (Manager's Office, Handidhua Colliery). As per Coal Mine Standard, (GSR 742(E)- 250 µg/m³) the values are within the permissible limits except for one instance at the Handidhua colliery. The same station has been monitored closely and the parameters have been within the prescribed limits. For reference stations, PM₁₀ varies from minimum 57.0 µg/m³ (CWS Colony, Jagannath OCP) to maximum 165.0 µg/m³ (Manadapal Sandmine). For reference stations also, the values are well within the permissible limit of NAAQS-2009 (100 µg/m³) except for instance at Mandapal Sandmine.

Observation for PM_{2.5}

PM_{2.5} at Compliance stations varies from 20.0 µg/m³ (OB Dump no.10, North side of Lingraj OCP) to 75.0 µg/m³ (Near OB Dump No.5 of Lingraj OCP). At reference stations, PM_{2.5} varies from 12.0 µg/m³ (South-west side of the mine, Kaniha OCP) to 66.0 µg/m³ (Mandapal sandmine). 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 10.21 µg/m³ (Neat East OB dump, Jamania, Kaniha OCP) and maximum was 26.50 µg/m³ at MGR-RLS of Bharatpur OCP. Likewise, for NO_x minimum was 10.14 µg/m³ (Old site office, Kaniha OCP) and maximum was 23.5 µg/m³ at NBVL station of Jagannath OCP. For reference stations, SO₂ ranges from 10.12 µg/m³ at CWS Colony, Jagannath OCP to 29.68 µg/m³ at Natada Village. Similarly NO_x, varies from minimum 10.12 µg/m³ at CWS Colony, Jagannath OCP to maximum 26.63 µg/m³ at South-west of the mine, Kaniha OCP. 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.

HALF YEARLY HEAVY METAL DATA

Area: Jagannath Area

Table:43

Project	Jagannath OCP				
Monitoring Station	Near NBVL Park				
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)
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
16-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



Table:44

Project	Jagannath OCP				
Monitoring Station	Near MDTP				
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)
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
16-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:45

Project	Ananta OCP				
Monitoring Station	North-East of Mine				
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)
03-Jun-2023/799	<1.0	<1.0	<1.0	<0.1	<0.1
16-Jun-2023/975	<1.0	<1.0	<1.0	<0.1	<0.1
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:46

Project	Ananta OCP				
Monitoring Station	Central Nursery				
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)
03-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
06-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
16-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Area: Bharatpur Area

Table:47

Project	Bharatpur OCP			
Monitoring Station	Near ETP/Workshop			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
03-Jun-2023	<0.1	<1.0	<1.0	<0.1
21-Jun-2023	<0.1	<1.0	<1.0	<0.1
06-Dec-2023	<0.1	<1.0	<1.0	<0.1
16-Dec-2023	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-



Table:48

Project	Bharatpur OCP			
Monitoring Station	North-West Point of the Mine			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
03-Jun-2023	<0.1	<1.0	<1.0	<0.1
21-Jun-2023	<0.1	<1.0	<1.0	<0.1
06-Dec-2023	<0.1	<1.0	<1.0	<0.1
16-Dec-2023	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Table:49

Project	Bharatpur OCP			
Monitoring Station	Near MGR-RLS of Bharatpur			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
07-Jun-2023	<0.1	<1.0	<1.0	<0.1
21-Jun-2023	<0.1	<1.0	<1.0	<0.1
06-Dec-2023	<0.1	<1.0	<1.0	<0.1
16-Dec-2023	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Table:50

Project	Bharatpur OCP			
Monitoring Station	Near Regional Store			
Date of sampling	Lead (Pb)	Arsenic (As)	Mercury (Hg)	Chromium (Cr)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)
07-Jun-2023	<0.1	<1.0	<1.0	<0.1
21-Jun-2023	<0.1	<1.0	<1.0	<0.1
06-Dec-2023	<0.1	<1.0	<1.0	<0.1
16-Dec-2023	<0.1	<1.0	<1.0	<0.1
Standard	1.0(24hours)	6.0(Annual)	-	-

Area: Lingraj

Table:51

Project	Lingaraj OCP				
Monitoring Station	Near OB Dump no. 5 (South Side of the Mine)				
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
21-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	



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Project	Lingaraj OCP				
Monitoring Station	Near OB Dump no. 10 (North Side of the Mine)				
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
21-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	

Table:53

Project	Lingaraj OCP				
Monitoring Station	IWSS				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	<i>(ng/m³)</i>	<i>(ng/m³)</i>	<i>(ng/m³)</i>	<i>(μg/m³)</i>	<i>(μg/m³)</i>
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
21-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	

Table:54

Project	Lingaraj OCP				
Monitoring Station	Near CT Road (Lingraj to Dera)				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	<i>(ng/m³)</i>	<i>(ng/m³)</i>	<i>(ng/m³)</i>	<i>(μg/m³)</i>	<i>(μg/m³)</i>
07-Jun-2023	<1.0	<1.0	<1.0	<0.1	<0.1
22-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	

Area: Kaniha

Table:55

Project	Kaniha OCP				
Monitoring Station	Project Office				
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
22-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



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Table:56

Project	Kaniha OCP				
Monitoring Station	New Time Office (Near Z-Patch)				
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
22-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:57

Project	Kaniha OCP				
Monitoring Station	Old Site Office				
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
22-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



Table:58

Project	Kaniha OCP				
Monitoring Station	North of the mine				
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
23-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:59

Project	Kaniha OCP				
Monitoring Station	Near Jatra Padia, Jarada				
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
23-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



Table:60

Project	Kaniha OCP				
Monitoring Station	Near External OB Dump Jamania				
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
22-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
28-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Area: Hingula

Table:61

Project	Hingula OCP				
Monitoring Station	Time Office				
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)
14-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
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



Table:62

Project	Hingula OCP				
Monitoring Station	South West Side of the Mine				
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)
14-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
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:63

Project	Balram OCP				
Monitoring Station	Near Project Office				
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)
14-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
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table:64

Project	Balram OCP				
Monitoring Station	Pump House near Outsourcing Working Patch & Coal Transport 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)
14-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
13-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
29-Dec-2023	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Area: Talcher

Table:65

Project	Talcher				
Monitoring Station	Near Canteen Talcher Colliery				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
15-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
28-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
30-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table:66

Project	Talcher				
Monitoring Station	Officer Club, Talcher Area				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
15-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
28-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
30-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table:67

Project	Nandira				
Monitoring Station	Project Office				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
15-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
28-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
30-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-



Table:68

Project	Nandira				
Monitoring Station	Sub-station				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
15-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
28-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
30-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-

Table:69

Project	Handhidhua Colliery				
Monitoring Station	Manager's Office				
Date of sampling	Lead (Pb)	Arsenic (As)	Nickel (Ni)	Chromium (Cr)	Cadmium (Cd)
	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)
15-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
28-Jun-2023	<0.1	<1.0	<1.0	<0.1	<0.1
14-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
30-Dec-2023	<0.1	<1.0	<1.0	<0.1	<0.1
Standard	1.0(24hours)	6.0(Annual)	20(Annual)	-	-



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HEAVY METAL DATA FOR REFERENCE STATIONS

Table: 70
Area: Jagannath
All values are in $\mu\text{g}/\text{m}^3$

Project	Ananta OCP							
Monitoring Station	Guthasahi Village							
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-Apr-2023/185	<20.0	7.18	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023/186	<20.0	8.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023/187	<20.0	8.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023/188	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023/97	<20.0	6.18	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023/98	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023/99	<20.0	6.13	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023/100	<20.0	5.92	<0.1	<1.0	<1.0	0.3	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(ann ual)	05(ann ual)

Table: 71

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

Project		Ananta OCP						
Monitoring Station		Guthasahi Village						
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)	($\mu\text{g}/\text{m}^3$)
04-May-23	<20.0	5.55	<0.1	<1.0	<1.0	0.4	BQL(QL)	BQL(QL)
05-May-23	<20.0	6.21	<0.1	<1.0	<1.0	0.2	BQL(QL)	BQL(QL)
10-May-23	<20.0	4.25	<0.1	<1.0	<1.0	0.3	BQL(QL)	BQL(QL)
11-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.1	BQL(QL)	BQL(QL)
18-May-23	<20.0	4.68	<0.1	<1.0	<1.0	0.1	BQL(QL)	BQL(QL)
19-May-23	<20.0	5.55	<0.1	<1.0	<1.0	0.2	BQL(QL)	BQL(QL)
24-May-23	<20.0	6.32	<0.1	<1.0	<1.0	0.4	BQL(QL)	BQL(QL)
25-May-23	<20.0	4.97	<0.1	<1.0	<1.0	0.5	BQL(QL)	BQL(QL)
29-May-23	<20.0	4.68	<0.1	<1.0	<1.0	0.4	BQL(QL)	BQL(QL)
30-May-23	<20.0	7.21	<0.1	<1.0	<1.0	0.3	BQL(QL)	BQL(QL)
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)	01(annual)	05(annual)

Table: 72

Area: Jagannath

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

Project	Ananta OCP							
Monitoring Station	Guthasahi Village							
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-Jun-2023/800	<20.0	7.52	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Jun-2023/801	<20.0	7.51	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Jun-2023/802	<20.0	6.88	<0.1	<1.0	<1.0	0.22	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Jun-2023/803	<20.0	5.92	<0.1	<1.0	<1.0	0.49	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Jun-2023/976	<20.0	5.61	<0.1	<1.0	<1.0	0.43	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Jun-2023/977	<20.0	6.51	<0.1	<1.0	<1.0	0.41	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Jun-2023/978	<20.0	6.12	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Jun-2023/	<20.0	7.15	<0.1	<1.0	<1.0	0.1	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(ann ual)	05(ann ual)

Table: 73

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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-Jul-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
06-Jul-2023	<20.0	5.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
12-Jul-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
13-Jul-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Jul-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
20-Jul-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Jul-2023	<20.0	5.33	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
27-Jul-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
28-Jul-2023	<20.0	4.39	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
29-Jul-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(ann ual)

All values are in μg/m³

Table: 74

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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	5.45	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
04-Aug-2023	<20.0	7.44	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
09-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
10-Aug-2023	<20.0	5.28	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
18-Aug-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
19-Aug-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
25-Aug-2023	<20.0	4.79	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
26-Aug-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h hours)	180(hour)	1.0(24h hours)	6.0(Annual)	20(Annual)	04(1hour)	01(annual)	05(annual)

All values are in μg/m³

Table: 75

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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	5.45	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Sep-2023	<20.0	7.05	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	7.65	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(ann ual)

Table: 76

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi Village							
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-Oct-2023/2207	<20.0	7.85	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
06-Oct-2023/2208	<20.0	7.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Oct-2023/2209	<20.0	8.42	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
12-Oct-2023/2210	<20.0	8.62	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
18-Oct-2023/2288	<20.0	8.48	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
19-Oct-2023/2289	<20.0	9.65	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Oct-2023/2290	<20.0	8.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
28-Oct-2023/2291	<20.0	7.48	<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(1hours)	01(annual)	05(annual)

All values are in μg/m³

Table: 77

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi Village							
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)
02-Nov-2023/	<20.0	9.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Nov-2023/	<20.0	9.32	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Nov-2023/	<20.0	9.25	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
10-Nov-2023/	<20.0	9.15	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Nov-2023/	<20.0	9.58	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
18-Nov-2023/	<20.0	8.26	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
25-Nov-2023/	<20.0	7.48	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
26-Nov-2023/	<20.0	7.62	<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(1hours)	01(annual)	05(annual)

All values are in μg/m³

Table: 78

Area: Jagannath

All value

Project	Ananta OCP							
Monitoring Station	Guthasahi 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	8.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Dec-2023/	<20.0	8.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
07-Dec-2023/	<20.0	8.23	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
08-Dec-2023/	<20.0	8.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
15-Dec-2023/	<20.0	8.26	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
16-Dec-2023/	<20.0	7.48	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
21-Dec-2023/	<20.0	7.69	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
22-Dec-2023/	<20.0	7.96	<0.1	<1.0	<1.0	0.2	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)

s are in μg/m³

Table: 79

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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	6.34	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	5.87	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	6.80	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	7.84	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	5.67	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	5.98	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	7.06	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	6.88	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(ann ual)

All value

Table: 80

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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)
02-Feb-2024	<20.0	7.82	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
03-Feb-2024	<20.0	7.59	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
09-Feb-2024	<20.0	7.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
10-Feb-2024	<20.0	7.62	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
15-Feb-2024	<20.0	7.69	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
16-Feb-2024	<20.0	7.85	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
17-Feb-2024	<20.0	7.84	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
21-Feb-2024	<20.0	7.32	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(ann ual)

All value

Table: 81

Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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-Mar-2024/3983	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
05-Mar-2024/3984	<20.0	13.61	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Mar-2024/3985	<20.0	15.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
12-Mar-2024/3986	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Mar-2024/4062	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
21-Mar-2024/4063	<20.0	16.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
29-Mar-2024/4064	<20.0	16.99	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
30-Mar-2024/4065	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hour)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

All value

Table: 82

Area: Jagannath

All value

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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-Apr-2023/179	<20.0	8.08	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
06-Apr-2023/180	<20.0	7.91	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
12-Apr-2023/181	<20.0	7.89	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
13-Apr-2023/182	<20.0	8.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
19-Apr-2023/90	<20.0	6.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
20-Apr-2023/91	<20.0	6.55	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
26-Apr-2023/92	<20.0	6.71	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
27-Apr-2023/93	<20.0	6.69	<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(1hours)	01(annual)	05(annual)

Table: 83

Area: Jagannath*All value*

Project		Jagannath OCP				
Monitoring Station		CWS Colony, Meeti				
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)
04-May-23	<20.0	6.32	<0.1	<1.0	<1.0	0.4
05-May-23	<20.0	4.55	<0.1	<1.0	<1.0	0.4
10-May-23	<20.0	8.01	<0.1	<1.0	<1.0	0.3
11-May-23	<20.0	7.25	<0.1	<1.0	<1.0	0.2
18-May-23	<20.0	7.65	<0.1	<1.0	<1.0	0.1
19-May-23	<20.0	5.64	<0.1	<1.0	<1.0	0.5
24-May-23	<20.0	5.32	<0.1	<1.0	<1.0	0.3
25-May-23	<20.0	4.89	<0.1	<1.0	<1.0	0.1
29-May-23	<20.0	7.25	<0.1	<1.0	<1.0	0.2
30-May-23	<20.0	5.04	<0.1	<1.0	<1.0	0.1
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)

Table: 84

Area: Jagannath

All value

	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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-Jun-2023/794	<20.0	8.15	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Jun-2023/795	<20.0	7.93	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Jun-2023/796	<20.0	7.81	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Jun-2023/797	<20.0	6.92	<0.1	<1.0	<1.0	0.56	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Jun-2023/970	<20.0	6.56	<0.1	<1.0	<1.0	0.15	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Jun-2023/971	<20.0	6.02	<0.1	<1.0	<1.0	0.14	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Jun-2023/972	<20.0	5.88	<0.1	<1.0	<1.0	0.16	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Jun-2023/973	<20.0	5.68	<0.1	<1.0	<1.0	0.27	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(1hours)	01(annual)	05(annual)

Table: 85
Area: Jagannath

Project	Ananta OCP							
Monitoring Station	Guthasahi 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-Jul-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
06-Jul-2023	<20.0	5.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
12-Jul-2023	<20.0	6.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
13-Jul-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Jul-2023	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
20-Jul-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Jul-2023	<20.0	5.33	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
27-Jul-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
28-Jul-2023	<20.0	4.39	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
29-Jul-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(ann ual)

All value

Table: 86

Area: Jagannath*All value*

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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-Aug-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
04-Aug-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL(Q L=2.5)
09-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL(Q L=2.5)
10-Aug-2023	<20.0	4.40	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
18-Aug-2023	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
25-Aug-2023	<20.0	4.87	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Aug-2023	<20.0	8.08	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
Standard	400(24h ours)	180(hou r)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 87

Area: Jagannath*All value*

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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	5.45	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	7.36	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	4.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 88

Area: Jagannath

All value

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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-2023/2201	<20.0	7.81	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
06-Oct-2023/2202	<20.0	6.92	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
11-Oct-2023/2203	<20.0	5.44	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Oct-2023/2204	<20.0	7.45	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Oct-2023/2282	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Oct-2023/2283	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
27-Oct-2023/2284	<20.0	7.36	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
28-Oct-2023/2285	<20.0	6.78	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 89

Area: Jagannath

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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-Nov-2023/	<20.0	8.15	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
06-Nov-2023/	<20.0	7.93	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
11-Nov-2023/	<20.0	7.81	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Nov-2023/	<20.0	9.26	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
18-Nov-2023/	<20.0	6.56	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
19-Nov-2023/	<20.0	6.02	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Nov-2023/	<20.0	5.88	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
28-Nov-2023/	<20.0	6.89	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 90

Area: Jagannath*All value*

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	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)
-Dec-2023/	<20.0	9.36	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	7.85	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	4.65	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	7.81	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	9.26	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	6.56	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	6.89	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	7.20	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(ho ur)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 91

Area: Jagannath*All value*

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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	6.45	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	8.78	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	9.36	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	7.85	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	4.65	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	9.34	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	5.87	<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: 92

Area: Jagannath*All value*

Project	Jagannath OCP							
Monitoring Station	CWS Colony, Meeti							
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)
-Feb-2024	<20.0	12.46	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	12.48	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	13.20	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	14.20	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	15.24	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	17.26	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	14.28	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	16.25	<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:93

Project	Ananta OCP							
Monitoring Station	Guthasahi 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)
04-Mar-2024/3983	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
05-Mar-2024/3984	<20.0	13.61	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Mar-2024/3985	<20.0	15.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
12-Mar-2024/3986	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Mar-2024/4062	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
21-Mar-2024/4063	<20.0	16.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
29-Mar-2024/4064	<20.0	16.99	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
30-Mar-2024/4065	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(ho ur)	1.0(24 hours)	6.0(An nual)	20(An nual)	04(1ho urs)	01(ann ual)	05(ann ual)

Area: Jagannath

All value

Table: 94

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
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-Apr-2023/193	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
06-Apr-2023/194	<20.0	7.23	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
12-Apr-2023/195	<20.0	6.29	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
13-Apr-2023/196	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
19-Apr-2023/107	<20.0	7.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
20-Apr-2023/106	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
26-Apr-2023/108	<20.0	6.96	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
27-Apr-2023/109	<20.0	7.25	<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: 95
Area:Lingaraj
All value

Project		Bharatpur OCP						
Monitoring Station		Near Joragadia 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-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
05-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
11-May-23	<20.0	4.05	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
18-May-23	<20.0	5.02	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
19-May-23	<20.0	5.18	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-May-23	<20.0	5.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
25-May-23	<20.0	6.18	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
29-May-23	<20.0	4.69	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
30-May-23	<20.0	6.11	<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: 96

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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-Jun-2023/808	<20.0	6.81	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Jun-2023/809	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Jun-2023/810	<20.0	7.12	<0.1	<1.0	<1.0	0.63	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Jun-2023/811	<20.0	5.15	<0.1	<1.0	<1.0	0.58	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Jun-2023/814	<20.0	6.49	<0.1	<1.0	<1.0	0.37	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Jun-2023/815	<20.0	6.51	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Jun-2023/816	<20.0	6.77	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Jun-2023/817	<20.0	5.84	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(h our)	1.0(24 hours)	6.0(A nnual)	20(A nnual)	04(1h ours)	01(ann ual)	05(ann ual)

Table: 97

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
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-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
06-Jul-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
12-Jul-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
13-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
19-Jul-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
20-Jul-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
26-Jul-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
27-Jul-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
28-Jul-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
29-Jul-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 98

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
03-Aug-2023	<20.0	7.44	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
04-Aug-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
09-Aug-2023	<20.0	7.54	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
10-Aug-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
18-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
19-Aug-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
25-Aug-2023	<20.0	5.14	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
26-Aug-2023	<20.0	4.99	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 99
Area: Bharatpur

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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	5.45	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
05-Sep-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
11-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
12-Sep-2023	<20.0	4.98	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
20-Sep-2023	<20.0	7.05	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
21-Sep-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
25-Sep-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
26-Sep-2023	<20.0	7.65	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24h hours)	180(hour)	1.0(24h hours)	6.0(Annual)	20(Annual)	04(1h hours)	01(annual)	05(annual)

All value

Table: 100

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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-2023/2215	<20.0	5.98	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
06-Oct-2023/2216	<20.0	7.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
11-Oct-2023/2217	<20.0	4.66	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
12-Oct-2023/2218	<20.0	6.98	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
18-Oct-2023/2296	<20.0	7.20	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
19-Oct-2023/2297	<20.0	7.84	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
27-Oct-2023/2298	<20.0	11.24	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
28-Oct-2023/2299	<20.0	12.14	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 101

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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)
-nov-2023/5	<20.0	6.39	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	5.02	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	6.39	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	8.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	9.32	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	5.47	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	5.06	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
-nov-2023/5	<20.0	6.32	<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(1hours)	01(annual)	05(annual)

Table: 102

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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)
-dec-2023/5	<20.0	11.62	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	9.62	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	10.66	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	10.64	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	11.26	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	9.68	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	7.86	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
-dec-2023/5	<20.0	8.69	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 103

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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	5.64	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	5.02	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	6.39	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	8.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	7.45	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	9.32	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	5.06	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 104

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
03-feb-2024	<20.0	5.64	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	5.02	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	6.39	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	8.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	7.45	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	9.32	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
03-feb-2024	<20.0	5.06	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 105

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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-Mar-2024/3991	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
05-Mar-2024/3992	<20.0	13.38	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
11-Mar-2024/3993	<20.0	14.05	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
12-Mar-2024/3994	<20.0	13.09	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
20-Mar-2024/4070	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
21-Mar-2024/4071	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
29-Mar-2024/4072	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
30-Mar-2024/4073	<20.0	12.99	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 106

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
Date of sampling	Ammo nia (NH ₃)	Ozon e (O ₃)	Lead (Pb)	Arsen ic (As)	Nicke l (Ni)	CO	Benzo (α) Pyren e	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-2023/193	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
06-Apr-2023/194	<20.0	7.23	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
12-Apr-2023/195	<20.0	6.29	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
13-Apr-2023/196	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
19-Apr-2023/107	<20.0	7.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
20-Apr-2023/106	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
26-Apr-2023/108	<20.0	6.96	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
27-Apr-2023/109	<20.0	7.25	<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: 107

Area: Bharatpur*All value*

Project		Bharatpur OCP							
Monitoring Station		Near Joragadia 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-May-	<20.0	5.59	<0.1	<1.0	<1.0	0.4	BQL(Q	BQL(Q	
05-May-	<20.0	6.25	<0.1	<1.0	<1.0	0.3	BQL(Q	BQL(Q	
10-May-	<20.0	5.32	<0.1	<1.0	<1.0	0.4	BQL(Q	BQL(Q	
11-May-	<20.0	7.02	<0.1	<1.0	<1.0	0.5	BQL(Q	BQL(Q	
18-May-	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q	BQL(Q	
19-May-	<20.0	5.47	<0.1	<1.0	<1.0	0.1	BQL(Q	BQL(Q	
24-May-	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q	BQL(Q	
29-May-	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(Q	BQL(Q	
30-May-23	<20.0	5.45	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)	
31-May-	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQL(Q	BQL(Q	
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)	01(annual)	05(annual)	

Table: 108

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
Date of sampling	Ammونيا (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-Jun-2023/808	<20.0	6.81	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
06-Jun-2023/809	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
12-Jun-2023/810	<20.0	7.12	<0.1	<1.0	<1.0	0.63	BQL(QL=0.5)	BQL(QL=2.5)
13-Jun-2023/811	<20.0	5.15	<0.1	<1.0	<1.0	0.58	BQL(QL=0.5)	BQL(QL=2.5)
19-Jun-2023/814	<20.0	6.49	<0.1	<1.0	<1.0	0.37	BQL(QL=0.5)	BQL(QL=2.5)
20-Jun-2023/815	<20.0	6.51	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
26-Jun-2023/816	<20.0	6.77	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
27-Jun-2023/817	<20.0	5.84	<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: 109

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
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-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
06-Jul-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
12-Jul-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
13-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
19-Jul-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
20-Jul-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
26-Jul-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
27-Jul-2023	<20.0	5.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
28-Jul-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
29-Jul-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hour)	01(annual)	05(annual)

Table: 110

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
03-Aug-2023	<20.0	7.44	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
04-Aug-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
09-Aug-2023	<20.0	7.54	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
10-Aug-2023	<20.0	4.66	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
18-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
19-Aug-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
25-Aug-2023	<20.0	5.14	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
26-Aug-2023	<20.0	4.99	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 111

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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	5.78	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	5.46	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	5.71	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Sep-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 112

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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-2023/2215	<20.0	7.54	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
06-Oct-2023/2216	<20.0	4.66	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Oct-2023/2217	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
12-Oct-2023/2218	<20.0	7.26	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
18-Oct-2023/2296	<20.0	7.98	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
19-Oct-2023/2297	<20.0	8.64	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
27-Oct-2023/2298	<20.0	9.26	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
28-Oct-2023/2299	<20.0	10.24	<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(1hours)	01(annual)	05(annual)

Table: 113

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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)
-nov-20235	<20.0	7.85	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	7.96	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	7.84	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	7.95	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	8.32	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	8.48	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	8.49	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-nov-20235	<20.0	8.76	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 114

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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)
-dec-20235	<20.0	7.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	7.85	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	8.96	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	9.81	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	8.42	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	9.82	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	7.82	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-dec-20235	<20.0	8.59	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 115

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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	5.64	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
04-Jan-2024	<20.0	5.02	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
10-Jan-2024	<20.0	6.39	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
11-Jan-2024	<20.0	8.68	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
18-Jan-2024	<20.0	7.45	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
19-Jan-2024	<20.0	9.32	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
24-Jan-2024	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
25-Jan-2024	<20.0	5.06	<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: 116

Area: Bharatpur*All value*

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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)
-Feb-2024	<20.0	4.19	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	5.15	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	6.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	6.04	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	5.31	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	5.62	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	5.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
-Feb-2024	<20.0	6.28	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24 hours)	6.0(An nual)	20(An nual)	04(1ho urs)	01(annu al)	05(ann ual)

Table: 117

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Joragadia 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-Mar-2024/3991	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
05-Mar-2024/3992	<20.0	13.38	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
11-Mar-2024/3993	<20.0	14.05	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
12-Mar-2024/3994	<20.0	13.09	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
20-Mar-2024/4070	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
21-Mar-2024/4071	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
29-Mar-2024/4072	<20.0	<10.0	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
30-Mar-2024/4073	<20.0	12.99	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 118

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village (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-2023/235	<20.0	5.92	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023/236	<20.0	6.26	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023/237	<20.0	4.19	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023/238	<20.0	5.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023/149	<20.0	6.88	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023/150	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023/151	<20.0	6.12	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023/152	<20.0	5.83	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 119

Area: Bharatpur*All value*

Project		Bharatpur OCP						
Monitoring Station		Near Natedi Village (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)
02-May-23	<20.0	5.23	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
03-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
08-May-23	<20.0	4.08	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
09-May-23	<20.0	7.25	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
16-May-23	<20.0	5.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-May-23	<20.0	6.04	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
22-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
23-May-23	<20.0	5.62	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
30-May-23	<20.0	5.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
31-May-23	<20.0	6.01	<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: 120

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village (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-Jun-2023/846	<20.0	7.55	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
02-Jun-2023/847	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
09-Jun-2023/818	<20.0	6.88	<0.1	<1.0	<1.0	0.97	BQL(QL=0.5)	BQL(QL=2.5)
10-Jun-2023/849	<20.0	7.23	<0.1	<1.0	<1.0	0.53	BQL(QL=0.5)	BQL(QL=2.5)
16-Jun-2023/1021	<20.0	6.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-Jun-2023/1022	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
23-Jun-2023/1023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Jun-2023/1024	<20.0	5.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 121

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(Reported Only)							
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-Jul-2023	<20.0	3.99	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
04-Jul-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
10-Jul-2023	<20.0	7.25	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
11-Jul-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
17-Jul-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
18-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
24-Jul-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
25-Jul-2023	<20.0	7.21	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	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: 122

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(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	4.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.89	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
07-Aug-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
17-Aug-2023	<20.0	6.64	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
23-Aug-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	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: 123

Area: Bharatpur

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(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	5.47	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	7.05	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	7.63	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	8.04	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	5.91	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Sep-2023	<20.0	6.72	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
28-Sep-2023	<20.0	6.99	<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: 124

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(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-2023/2253	<20.0	9.03	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
04-Oct-2023/2254	<20.0	6.86	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
09-Oct-2023/2255	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
10-Oct-2023/2256	<20.0	7.55	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
16-Oct-2023/2338	<20.0	6.88	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
17-Oct-2023/2339	<20.0	9.68	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
25-Oct-2023/2340	<20.0	10.24	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
26-Oct-2023/2341	<20.0	12.20	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
30-Oct-2023/2342	<20.0	11.20	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
31-Oct-2023/2367	<20.0	10.84	<0.1	<1.0	<1.0	0.4	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: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(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)
02-Nov-2023/	<20.0	7.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Nov-2023/	<20.0	7.59	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
04-Nov-2023/	<20.0	7.82	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
05-Nov-2023/	<20.0	8.46	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
05-Nov-2023/	<20.0	8.29	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Nov-2023/	<20.0	9.41	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
12-Nov-2023/	<20.0	9.53	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
18-Nov-2023/	<20.0	8.52	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
19-Nov-2023/	<20.0	7.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
24-Nov-2023/	<20.0	7.63	<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: 126

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(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	8.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Dec-2023/	<20.0	8.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Dec-2023/	<20.0	8.48	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Dec-2023/	<20.0	8.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Dec-2023/	<20.0	8.16	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
12-Dec-2023/	<20.0	8.34	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
13-Dec-2023/	<20.0	8.49	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
19-Dec-2023/	<20.0	9.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
20-Dec-2023/	<20.0	8.49	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
21-Dec-2023/	<20.0	8.62	<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: 127

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(Reported Only)							
Date of sampling	Ammo nia (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	6.45	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
02-Jan-2024	<20.0	5.02	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Jan-2024	<20.0	7.48	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
09-Jan-2024	<20.0	6.40	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
16-Jan-2024	<20.0	7.64	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Jan-2024	<20.0	6.71	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024	<20.0	5.07	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
23-Jan-2024	<20.0	8.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
30-Jan-2024	<20.0	8.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
31-Jan-2024	<20.0	8.14	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 128

Area: Bharatpur

All value

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(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	8.47	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Feb-2024	<20.0	8.49	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
08-Feb-2024	<20.0	8.46	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
10-Feb-2024	<20.0	7.95	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Feb-2024	<20.0	7.89	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
12-Feb-2024	<20.0	7.84	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
13-Feb-2024	<20.0	7.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
23-Feb-2024	<20.0	8.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
24-Feb-2024	<20.0	9.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
26-Feb-2024	<20.0	9.48	<0.1	<1.0	<1.0	0.4	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: 129

Area: Bharatpur

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(Reported Only)							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (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-2024/4029	<20.0	12.34	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
02-Mar-2024/4030	<20.0	15.23	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Mar-2024/4031	<20.0	11.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Mar-2024/4032	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
18-Mar-2024/4108	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
19-Mar-2024/4109	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
27-Mar-2024/4110	<20.0	12.66	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
28-Mar-2024/4111	<20.0	14.32	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1ho urs)	01(annu al)	05(ann ual)

Table: 130

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili 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-2023/203	<20.0	7.28	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023/204	<20.0	6.39	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023/205	<20.0	7.26	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023/206	<20.0	8.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023/116	<20.0	8.09	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023/117	<20.0	5.15	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023/118	<20.0	6.82	<0.1	<1.0	<1.0	.1	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023/119	<20.0	6.73	<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(24ho urs)	6.0(An nual)	20(Ann ual)	04(10. 1hour s)	01(annu al)	05(ann ual)

Table: 131

Area: Lingaraj*All value*

Project		Lingaraj OCP							
Monitoring Station		Near Kankili Community Centre							
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-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)	
05-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)	
10-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)	
11-May-23	<20.0	4.05	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)	
18-May-23	<20.0	5.02	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)	
19-May-23	<20.0	5.18	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)	
24-May-23	<20.0	5.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)	
25-May-23	<20.0	6.18	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)	
29-May-23	<20.0	4.69	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)	
30-May-23	<20.0	6.11	<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: 132

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili 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-Jun-2023/816	<20.0	5.62	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Jun-2023/817	<20.0	6.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Jun-2023/818	<20.0	6.49	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Jun-2023/819	<20.0	6.58	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Jun-2023/992	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Jun-2023/993	<20.0	6.59	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Jun-2023/994	<20.0	6.22	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Jun-2023/995	<20.0	7.56	<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(24ho urs)	6.0(An nual)	20(Ann ual)	04(10. 1hour s)	01(annu al)	05(ann ual)

Table: 133

Area: Lingaraj

Project	Lingaraj OCP							
Monitoring Station	Near Kankili 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-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
06-Jul-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
12-Jul-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
13-Jul-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Jul-2023	<20.0	5.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
20-Jul-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Jul-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
27-Jul-2023	<20.0	7.66	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
28-Jul-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
29-Jul-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
Standard	400(24h ours)	180(h our)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1ho urs)	01(annu al)	05(ann ual)

Table: 134

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili Community Centre							
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	5.22	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
04-Aug-2023	<20.0	6.30	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
09-Aug-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
10-Aug-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
18-Aug-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Aug-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
25-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Aug-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
Standard	400(24h ours)	180(hou r)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 135

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili 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)
04-Sep-2023	<20.0	5.25	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
05-Sep-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Sep-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.65	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
26-Sep-2023	<20.0	5.44	<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: 136

Area: Lingaraj

All value

Project	Lingaraj OCP							
Monitoring Station	Near Kankili Community Centre							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	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-2023/2223	<20.0	6.96	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
06-Oct-2023/2224	<20.0	7.21	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Oct-2023/2225	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Oct-2023/2226	<20.0	5.45	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
18-Oct-2023/2304	<20.0	7.02	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
19-Oct-2023/2305	<20.0	6.95	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
27-Oct-2023/2306	<20.0	7.41	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
28-Oct-2023/2307	<20.0	6.86	<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: 137

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili 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)
-Nov-2023/	<20.0	6.32	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	5.57	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	8.68	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	7.19	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	5.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	6.84	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	7.69	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-Nov-2023/	<20.0	7.85	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 138

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili 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)
-Dec-2023/	<20.0	4.63	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	4.05	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	5.02	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	5.18	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	6.35	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	8.59	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	6.84	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
-Dec-2023/	<20.0	7.89	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 139

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili Community Centre							
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	6.34	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
04-Jan-2024	<20.0	5.57	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
10-Jan-2024	<20.0	8.68	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
11-Jan-2024	<20.0	7.19	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
18-Jan-2024	<20.0	5.44	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
19-Jan-2024	<20.0	6.34	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
24-Jan-2024	<20.0	5.61	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
25-Jan-2024	<20.0	7.06	<0.1	<1.0	<1.0	0.9	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(10.1h ours)	01(annu al)	05(annu al)

Table: 140

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili Community Centre							
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)
-Feb-2024	<20.0	6.18	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	5.62	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	6.12	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	6.19	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	6.03	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	5.84	<0.1	<1.0	<1.0	0.8	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	5.96	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL
-Feb-2024	<20.0	6.87	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24ho urs)	6.0(An nual)	20(Ann ual)	04(10.1h ours)	01(annu al)	05(annu al)

Table: 141

Area: Lingaraj*All value*

Project	Lingaraj OCP							
Monitoring Station	Near Kankili Community Centre							
Date of sampling	Ammo nia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arseni c (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-Mar-2024/3999	<20.0	15.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
05-Mar-2024/4000	<20.0	15.11	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Mar-2024/4001	<20.0	16.38	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
12-Mar-2024/4002	<20.0	16.94	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Mar-2024/4078	<20.0	17.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-Mar-2024/4079	<20.0	11.26	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
29-Mar-2024/4080	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
30-Mar-2024/4081	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24 hours)	180(ho ur)	1.0(24ho urs)	6.0(An nual)	20(An nual)	04(10.1 hours)	01(ann ual)	05(ann ual)

Table: 142

Area:Kaniha*All value*

Project	Kaniha OCP							
Monitoring Station	South West of Mine							
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-2023/219	<20.0	4.93	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023/220	<20.0	5.15	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023/221	<20.0	6.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023/222	<20.0	7.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023/133	<20.0	7.83	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023/134	<20.0	8.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023/135	<20.0	5.96	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023/136	<20.0	6.15	<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: 143

Area: Kaniha*All value*

C		Kaniha OCP						
Monitoring Station		South West of 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)
2-May-23	<20.0	5.56	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
3-May-23	<20.0	5.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
8-May-23	<20.0	4.23	<0.1	<1.0	<1.0	0.5	BQL(QL=0.5)	BQL(QL=2.5)
9-May-23	<20.0	5.02	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
16-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-May-23	<20.0	4.23	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
22-May-23	<20.0	4.02	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
23-May-23	<20.0	6.30	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
30-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
31-May-23	<20.0	4.01	<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: 144

Area: Kaniha*All value*

C	Kaniha OCP							
Monitoring Station	South West of Mine							
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-Jun-2023/830	<20.0	5.81	<0.1	<1.0	<1.0	0.95	BQL(QL=0.5)	BQL(QL=2.5)
02-Jun-2023/831	<20.0	6.01	<0.1	<1.0	<1.0	0.67	BQL(QL=0.5)	BQL(QL=2.5)
09-Jun-2023/832	<20.0	5.62	<0.1	<1.0	<1.0	0.69	BQL(QL=0.5)	BQL(QL=2.5)
10-Jun-2023/833	<20.0	6.12	<0.1	<1.0	<1.0	0.13	BQL(QL=0.5)	BQL(QL=2.5)
16-Jun-2023/1006	<20.0	6.19	<0.1	<1.0	<1.0	0.49	BQL(QL=0.5)	BQL(QL=2.5)
17-Jun-2023/1007	<20.0	6.03	<0.1	<1.0	<1.0	0.27	BQL(QL=0.5)	BQL(QL=2.5)
23-Jun-2023/1008	<20.0	5.92	<0.1	<1.0	<1.0	0.24	BQL(QL=0.5)	BQL(QL=2.5)
24-Jun-2023/1049	<20.0	6.23	<0.1	<1.0	<1.0	0.56	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: 145

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of Mine							
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-Jul-2023	<20.0	6.14	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
04-Jul-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
10-Jul-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
11-Jul-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
17-Jul-2023	<20.0	5.23	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
18-Jul-2023	<20.0	4.22	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
24-Jul-2023	<20.0	4.37	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
25-Jul-2023	<20.0	7.06	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annua l)	20(Ann ual)	04(1h ours)	01(annu al)	05(ann ual)

Table: 146

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of Mine							
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	5.44	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
07-Aug-2023	<20.0	4.28	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2023	<20.0	7.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.22	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
17-Aug-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
23-Aug-2023	<20.0	5.30	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
24-Aug-2023	<20.0	7.95	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annua l)	20(Ann ual)	04(1h ours)	01(annu al)	05(ann ual)

Table: 147

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of 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	6.32	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	7.69	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	4.89	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	5.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	6.68	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Sep-2023	<20.0	6.77	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
28-Sep-2023	<20.0	6.94	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
29-Sep-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
30-Sep-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annua l)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 148

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of Mine							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
03-Oct-2023/2237	<20.0	7.85	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
04-Oct-2023/2238	<20.0	7.96	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
09-Oct-2023/2239	<20.0	7.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
10-Oct-2023/2240	<20.0	7.81	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
16-Oct-2023/2319	<20.0	7.92	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
17-Oct-2023/2320	<20.0	7.49	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
25-Oct-2023/2321	<20.0	8.69	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
26-Oct-2023/2322	<20.0	8.29	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
30-Oct-2023/2323	<20.0	8.49	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
31-Oct-2023/2370	<20.0	8.47	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 149

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of 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-Nov-2023	<20.0	9.86	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Nov-2023	<20.0	8.95	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	8.68	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	8.79	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	8.59	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	9.58	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	9.75	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	9.48	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	9.74	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
03-Nov-2023/2233	<20.0	8.95	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(hour)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 150

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of 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-Dec-2023/2233	<20.0	10.20	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	12.24	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	12.68	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	12.84	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	11.48	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	11.62	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	11.32	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	11.85	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	10.98	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Dec-2023/2233	<20.0	10.87	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annua l)	05(annu al)

Table: 151

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of Mine							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
01-Jan-2024/3291	<20.0	6.14	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
02-Jan-2024/3292	<20.0	5.47	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
08-Jan-2024/3293	<20.0	5.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Jan-2024/3294	<20.0	6.30	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
16-Jan-2024/3477	<20.0	6.77	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
17-Jan-2024/3478	<20.0	8.06	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024/3479	<20.0	8.65	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
23-Jan-2024/3480	<20.0	9.11	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
30-Jan-2024/3481	<20.0	5.78	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
31-Jan-2024/3482	<20.0	6.45	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 152

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of 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-2024/3291	<20.0	6.14	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	5.47	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	5.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	6.30	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	6.77	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	8.06	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	8.65	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	9.11	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	5.78	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	6.45	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 153

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South West of 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-Mar-2024/4013	<20.0	13.62	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Mar-2024/4014	<20.0	14.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
08-Mar-2024/4015	<20.0	18.34	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Mar-2024/4016	<20.0	17.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
18-Mar-2024/4092	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
19-Mar-2024/4093	<20.0	11.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Mar-2024/4094	<20.0	12.30	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
28-Mar-2024/4095	<20.0	10.68	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 154

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-2023/214	<20.0	5.83	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023/215	<20.0	4.88	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023/216	<20.0	6.23	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023/217	<20.0	5.84	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023/127	<20.0	5.73	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023/128	<20.0	5.69	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023/129	<20.0	4.89	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023/130	<20.0	6.15	<0.1	<1.0	<1.0	0.02	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(annu al)	05(ann ual)

Table: 155

Area: Kaniha

Project		Kaniha OCP						
Monitoring Station		South of Proposed Quarry Limit of KOCP						
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)
2-May-23	<20.0	5.44	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
3-May-23	<20.0	6.55	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
8-May-23	<20.0	6.01	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
9-May-23	<20.0	6.05	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
16-May-23	<20.0	5.02	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-May-23	<20.0	5.13	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
22-May-23	<20.0	7.01	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
23-May-23	<20.0	4.66	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
29-May-23	<20.0	5.32	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
30-May-23	<20.0	6.48	<0.1	<1.0	<1.0	0.2	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: 156

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-Jun-2023/826	<20.0	6.69	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
02-Jun-2023/827	<20.0	7.01	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
09-Jun-2023/828	<20.0	6.82	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
10-Jun-2023/829	<20.0	5.77	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
16-Jun-2023/1002	<20.0	3.98	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-Jun-2023/1003	<20.0	4.52	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
23-Jun-2023/1004	<20.0	5.17	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-Jun-2023/1005	<20.0	4.92	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(annu al)	05(ann ual)

Table: 157

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
04-Jul-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
10-Jul-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
11-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
17-Jul-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
18-Jul-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
24-Jul-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
25-Jul-2023	<20.0	5.89	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=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: 158

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
01-Aug-2023	<20.0	5.24	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
07-Aug-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
17-Aug-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
23-Aug-2023	<20.0	7.25	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
24-Aug-2023	<20.0	5.52	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1h ours)	01(annua l)	05(annu al)

Table: 159

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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(QL=0.7)	BQL
02-Sep-2023	<20.0	5.69	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	4.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	6.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	6.78	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Sep-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
28-Sep-2023	<20.0	5.85	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
29-Sep-2023	<20.0	5.88	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
30-Sep-2023	<20.0	6.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annua l)	05(annu al)

Table: 160

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-2023/2233	<20.0	8.68	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
04-Oct-2023/2234	<20.0	9.64	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
09-Oct-2023/2235	<20.0	9.49	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
10-Oct-2023/2236	<20.0	8.45	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
16-Oct-2023/2314	<20.0	7.89	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
17-Oct-2023/2315	<20.0	9.86	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
25-Oct-2023/2316	<20.0	7.89	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
26-Oct-2023/2317	<20.0	8.49	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
30-Oct-2023/2318	<20.0	10.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
31-Oct-2023/2369	<20.0	11.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(hour)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 161

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-2023/2233	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	8.89	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	6.92	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	7.94	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	7.84	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	8.96	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	9.21	<0.1	<1.0	<1.0	0.1	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	9.26	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	9.48	<0.1	<1.0	<1.0	0.1	BQL(QL =0.7)	BQL
03-Nov-2023/2233	<20.0	8.67	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annua l)	05(annu al)

Table: 162

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-Dec-2023/2233	<20.0	9.68	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	9.36	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	9.45	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	9.25	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	8.78	<0.1	<1.0	<1.0	0.1	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	8.91	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	7.89	<0.1	<1.0	<1.0	0.1	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	7.82	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	9.41	<0.1	<1.0	<1.0	0.2	BQL(QL =0.7)	BQL
03-Dec-2023/2233	<20.0	8.62	<0.1	<1.0	<1.0	0.3	BQL(QL =0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annua l)	05(annu al)

Table: 163

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-2024/3287	<20.0	6.14	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
02-Jan-2024/3288	<20.0	5.48	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
08-Jan-2024/3289	<20.0	7.65	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
09-Jan-2024/3290	<20.0	6.48	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
16-Jan-2024/3471	<20.0	5.98	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
17-Jan-2024/3472	<20.0	8.47	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
22-Jan-2024/3473	<20.0	9.64	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
23-Jan-2024/3474	<20.0	6.77	<0.1	<1.0	<1.0	0.6	BQL(QL =0.7)	BQL
30-Jan-2024/3475	<20.0	8.01	<0.1	<1.0	<1.0	0.7	BQL(QL =0.7)	BQL
31-Jan-2024/3476	<20.0	4.99	<0.1	<1.0	<1.0	0.5	BQL(QL =0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annua l)	05(annu al)

Table: 164

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
01-Feb-2024/3291	<20.0	6.14	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	5.47	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	5.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	6.30	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	6.77	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	8.06	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	8.65	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	9.11	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	5.78	<0.1	<1.0	<1.0	0.7	BQL(QL=0.7)	BQL
01-Feb-2024/3291	<20.0	6.45	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0 (Annual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 165

Area: Kaniha

Project	Kaniha OCP							
Monitoring Station	South of Proposed Quarry Limit of KOCP							
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-2024/4019	<20.0	15.23	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Mar-2024/4020	<20.0	14.68	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Mar-2024/4021	<20.0	11.24	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Mar-2024/4022	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
18-Mar-2024/4098	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
19-Mar-2024/4099	<20.0	10.69	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Mar-2024/4100	<20.0	11.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
28-Mar-2024/4101	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(annua l)	05(annu al)

Table: 166

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda Village							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (a) 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)	($\mu\text{g}/\text{m}^3$)
03-Apr-2023/225	<20.0	8.15	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
04-Apr-2023/226	<20.0	6.83	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Apr-2023/227	<20.0	8.12	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
11-Apr-2023/228	<20.0	6.88	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Apr-2023/139	<20.0	7.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
18-Apr-2023/140	<20.0	8.19	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Apr-2023/141	<20.0	7.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
25-Apr-2023/142	<20.0	8.19	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 167

Area: Hingula

Project		Hingula OCP						
Monitoring Station		North of the Mine, Purnapi, Kumunda 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)
2-May-23	<20.0	5.45	<0.1	<1.0	<1.0	0.3	BQL(QL)	BQL(QL)
3-May-23	<20.0	4.23	<0.1	<1.0	<1.0	0.1	BQL(QL)	BQL(QL)
8-May-23	<20.0	5.62	<0.1	<1.0	<1.0	0.2	BQL(QL)	BQL(QL)
9-May-23	<20.0	5.21	<0.1	<1.0	<1.0	0.3	BQL(QL)	BQL(QL)
16-May-	<20.0	5.06	<0.1	<1.0	<1.0	0.2	BQL(QL)	BQL(QL)
17-May-	<20.0	6.08	<0.1	<1.0	<1.0	0.3	BQL(QL)	BQL(QL)
30-May-	<20.0	7.05	<0.1	<1.0	<1.0	0.1	BQL(QL)	BQL(QL)
31-May-	<20.0	6.45	<0.1	<1.0	<1.0	0.1	BQL(QL)	BQL(QL)
Standard	400 (24hours)	180 (hour)	1.0 (24hours)	6.0 (Annual)	20 (Annual)	04 (1hours)	01(annual)	05(annual)

Table: 168

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda Village							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)	CO	Benzo (α) Pyrene	Benzen e
	(µg/m³)	(µg/m³)	(µg/m³)	(ng/m³)	(ng/m³)	(mg/m³)	(ng/m³)	(µg/m³)
01-Jun-2023/836	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
02-Jun-2023/837	<20.0	6.81	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
09-Jun-2023/838	<20.0	7.15	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Jun-2023/839	<20.0	6.86	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
16-Jun-2023/1011	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
17-Jun-2023/1012	<20.0	6.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
23-Jun-2023/1013	<20.0	4.92	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
24-Jun-2023/1014	<20.0	4.15	<0.1	<1.0	<1.0	.04	BQL(Q L=0.5)	BQL(Q L=2.5)
Standard	400(24 hours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 169
Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda 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-Jul-2023	<20.0	4.32	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
04-Jul-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
10-Jul-2023	<20.0	5.09	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
11-Jul-2023	<20.0	4.58	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
17-Jul-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
18-Jul-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
24-Jul-2023	<20.0	6.37	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
25-Jul-2023	<20.0	4.28	<0.1	<1.0	<1.0	.04	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 170
Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda 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-Aug-2023	<20.0	5.44	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2023	<20.0	7.85	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
07-Aug-2023	<20.0	6.95	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
17-Aug-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
23-Aug-2023	<20.0	5.91	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
24-Aug-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL(QL=2.5)
30-Aug-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.9	BQL(QL=0.7)	BQL(QL=2.5)
31-Aug-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(annu al)

Table: 171

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzen e (µg/m ³)
01-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	6.70	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	6.44	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	3.97	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
27-Sep-2023	<20.0	5.94	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
28-Sep-2023	<20.0	6.47	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(h our)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 172

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda 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-Oct-2023/2243	<20.0	6.84	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
04Oct-2023/2244	<20.0	7.45	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Oct-2023/2245	<20.0	6.98	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
10-Oct-2023/2246	<20.0	8.45	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
16-Oct-2023/2326	<20.0	6.48	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
17-Oct-2023/2327	<20.0	7.89	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
25-Oct-2023/2328	<20.0	8.64	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
26-Oct-2023/2329	<20.0	9.84	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
30-Oct-2023/2330	<20.0	8.49	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
31-Oct-2023/2365	<20.0	8.74	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 173

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda 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-Jan-2024/3297	<20.0	6.45	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
02-Jan-2024/3298	<20.0	5.28	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
08-Jan-2024/3299	<20.0	5.66	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Jan-2024/3300	<20.0	8.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
16-Jan-2024/3485	<20.0	9.63	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Jan-2024/3486	<20.0	5.74	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024/3487	<20.0	5.61	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
23-Jan-2024/3488	<20.0	8.14	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
30-Jan-2024/3489	<20.0	7.23	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
31-Jan-2024/3490	<20.0	6.47	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 174

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North of the Mine, Purnapi, Kumunda Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzen e (µg/m ³)
01-Mar-2024/4019	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
02-Mar-2024/4020	<20.0	12.30	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
08-Mar-2024/4021	<20.0	10.69	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
09-Mar-2024/4022	<20.0	14.35	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
18-Mar-2024/4098	<20.0	16.09	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
19-Mar-2024/4099	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
27-Mar-2024/4100	<20.0	<10.0	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
28-Mar-2024/4101	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1hou rs)	01(annu al)	05(ann ual)

Table: 175
Area: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada Village							
Date of sampling	Ammonia (NH₃)	Ozone (O₃)	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-2023/229	<20.0	8.01	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023/230	<20.0	7.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023/231	<20.0	6.05	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023/232	<20.0	6.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023/143	<20.0	8.45	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023/144	<20.0	8.49	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023/145	<20.0	8.15	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023/146	<20.0	7.56	<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: 176

Area: Hingula

Project			Hingula OCP					
Monitoring Station			North East of the Mine, Solada 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)
2-May-23	<20.0	5.47	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
3-May-23	<20.0	7.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
8-May-23	<20.0	6.32	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
9-May-23	<20.0	7.24	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
16-May-23	<20.0	6.31	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
22-May-23	<20.0	7.52	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
23-May-23	<20.0	6.32	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
30-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
31-May-23	<20.0	7.56	<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: 177

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzen e (µg/m ³)
01-Jun-2023/840	<20.0	7.15	<0.1	<1.0	<1.0	0.21	BQL(QL=0.5)	BQL(QL=2.5)
02-Jun-2023/841	<20.0	5.80	<0.1	<1.0	<1.0	0.45	BQL(QL=0.5)	BQL(QL=2.5)
09-Jun-2023/842	<20.0	6.12	<0.1	<1.0	<1.0	1.02	BQL(QL=0.5)	BQL(QL=2.5)
10-Jun-2023/843	<20.0	7.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
16-Jun-2023/1015	<20.0	3.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-Jun-2023/1016	<20.0	4.12	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
23-Jun-2023/1017	<20.0	4.55	<0.1	<1.0	<1.0	0.16	BQL(QL=0.5)	BQL(QL=2.5)
24-Jun-2023/1018	<20.0	4.63	<0.1	<1.0	<1.0	0.28	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: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada Village							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzen e (µg/m ³)
03-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
04-Jul-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
10-Jul-2023	<20.0	7.12	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
11-Jul-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
17-Jul-2023	<20.0	6.18	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
18-Jul-2023	<20.0	6.48	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
24-Jul-2023	<20.0	5.84	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
25-Jul-2023	<20.0	6.91	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	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: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada Village							
Date of sampling	Ammo nia (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	0.1	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
07-Aug-2023	<20.0	5.95	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2023	<20.0	8.21	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
16-Aug-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
17-Aug-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
23-Aug-2023	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
24-Aug-2023	<20.0	5.87	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
30-Aug-2023	<20.0	5.64	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
31-Aug-2023	<20.0	4.69	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24 hours)	180 (hour)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 180

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada 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-Sep-2023	<20.0	4.55	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
02-Sep-2023	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Sep-2023	<20.0	7.45	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Sep-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
18-Sep-2023	<20.0	5.05	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
19-Sep-2023	<20.0	5.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
27-Sep-2023	<20.0	5.04	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
28-Sep-2023	<20.0	5.89	<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: 181

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada 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-Oct-2023/2247	<20.0	9.62	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
04-Oct-2023/2248	<20.0	10.26	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Oct-2023/2249	<20.0	12.48	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
10-Oct-2023/2250	<20.0	14.86	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
16-Oct-2023/2331	<20.0	12.38	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
17-Oct-2023/2332	<20.0	11.48	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
25-Oct-2023/2333	<20.0	9.68	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
26-Oct-2023/2334	<20.0	12.48	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
30-Oct-2023/2335	<20.0	11.64	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
31-Oct-2023/2366	<20.0	9.68	<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: 182

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada 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-Jan-2024/3301	<20.0	6.47	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
02-Jan-2024/3302	<20.0	8.66	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
08-Jan-2024/3303	<20.0	5.98	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
09-Jan-2024/3304	<20.0	6.30	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
16-Jan-2024/3491	<20.0	5.64	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Jan-2024/3492	<20.0	8.01	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024/3493	<20.0	6.55	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
23-Jan-2024/3494	<20.0	8.01	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
30-Jan-2024/3495	<20.0	8.94	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
31-Jan-2024/3496	<20.0	8.13	<0.1	<1.0	<1.0	0.6	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: 183

Area: Hingula

Project	Hingula OCP							
Monitoring Station	North East of the Mine, Solada 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-2024/4023	<20.0	13.14	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
02-Mar-2024/4024	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
08-Mar-2024/4025	<20.0	15.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
09-Mar-2024/4026	<20.0	14.58	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
18-Mar-2024/4102	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
19-Mar-2024/4103	<20.0	17.32	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
27-Mar-2024/4104	<20.0	16.38	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
28-Mar-2024/4105	<20.0	14.55	<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: 184

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
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-2023/247	<20.0	5.15	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
06-Apr-2023/248	<20.0	6.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
12-Apr-2023/249	<20.0	6.89	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
13-Apr-2023/250	<20.0	7.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Apr-2023/161	<20.0	6.81	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Apr-2023/162	<20.0	6.92	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Apr-2023/163	<20.0	6.19	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Apr-2023/164	<20.0	6.10	<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: 185

Area: Talcher

Project		Nandira						
Monitoring Station		Nandira Colony						
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-May-23	<20.0	5.01	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
05-May-23	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
10-May-23	<20.0	4.56	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
13-May-23	<20.0	5.63	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
18-May-23	<20.0	4.32	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
19-May-23	<20.0	4.87	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-May-23	<20.0	6.98	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
25-May-23	<20.0	7.25	<0.1	<1.0	<1.0	0.5	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: 186

Area: Talcher

3.Project	Nandira							
Monitoring Station	Nandira Colony							
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-Jun-2023/850	<20.0	6.81	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
02-Jun-2023/851	<20.0	5.93	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
09-Jun-2023/852	<20.0	6.12	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
10-Jun-2023/853	<20.0	5.77	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
19-Jun-2023/1033	<20.0	5.36	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
20-Jun-2023/1034	<20.0	5.26	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
26-Jun-2023/1035	<20.0	5.44	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
27-Jun-2023/1036	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
29-Jun-2023/1037	<20.0	6.37	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
30-Jun-2023/1050	<20.0	4.36	<0.1	<1.0	<1.0	0.2	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: 187

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
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-Jul-2023	<20.0	5.62	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
06-Jul-2023	<20.0	4.96	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
12-Jul-2023	<20.0	5.02	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
13-Jul-2023	<20.0	4.54	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Jul-2023	<20.0	6.87	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
20-Jul-2023	<20.0	5.54	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Jul-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
27-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(Annual)	20(Annual)	04(1ho urs)	01(annual)	05(annual)

Table: 188

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
03-Aug-2023	<20.0	5.21	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL(Q L=2.5)
04-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.7	BQL(Q L=0.7)	BQL(Q L=2.5)
09-Aug-2023	<20.0	5.85	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL(Q L=2.5)
10-Aug-2023	<20.0	5.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL(Q L=2.5)
18-Aug-2023	<20.0	5.55	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
19-Aug-2023	<20.0	5.32	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL(Q L=2.5)
25-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL(Q L=2.5)
26-Aug-2023	<20.0	5.78	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	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(ann ual)	05(annu al)

Table: 189

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (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	5.72	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Sep-2023	<20.0	5.47	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Sep-2023	<20.0	7.02	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
20-Sep-2023	<20.0	7.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
21-Sep-2023	<20.0	7.64	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
25-Sep-2023	<20.0	5.68	<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
29-Sep-2023	<20.0	6.94	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
30-Sep-2023	<20.0	7.66	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(annu al)

Table: 190

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
05-Oct-2023/2265	<20.0	6.34	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
06-Oct-2023/2266	<20.0	6.94	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
11-Oct-2023/2267	<20.0	7.66	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
12-Oct-2023/2268	<20.0	7.24	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
18-Oct-2023/2352	<20.0	5.62	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
19-Oct-2023/2353	<20.0	6.84	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Oct-2023/2354	<20.0	6.60	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
28-Oct-2023/2355	<20.0	5.82	<0.1	<1.0	<1.0	0.2	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: 191

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
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-2024/3319	<20.0	6.14	<0.1	<1.0	<1.0	0.5	BQL (QL=0.7)	BQL
04-Jan-2024/3320	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL (QL=0.7)	BQL
10-Jan-2024/3321	<20.0	4.66	<0.1	<1.0	<1.0	0.5	BQL (QL=0.7)	BQL
11-Jan-2024/3322	<20.0	5.74	<0.1	<1.0	<1.0	0.5	BQL (QL=0.7)	BQL
18-Jan-2024/3515	<20.0	8.01	<0.1	<1.0	<1.0	0.5	BQL (QL=0.7)	BQL
19-Jan-2024/3516	<20.0	9.54	<0.1	<1.0	<1.0	0.5	BQL (QL=0.7)	BQL
24-Jan-2024/3517	<20.0	8.36	<0.1	<1.0	<1.0	0.6	BQL (QL=0.7)	BQL
25-Jan-2024/3518	<20.0	7.01	<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(1hours)	01 (annual)	05(annual)

Table: 192

Area: Talcher

Project	Nandira							
Monitoring Station	Nandira Colony							
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-Mar-2024/4041	<20.0	11.23	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
05-Mar-2024/4042	<20.0	14.56	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
11-Mar-2024/4043	<20.0	10.67	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
12-Mar-2024/4044	<20.0	<10.0	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
20-Mar-2024/4120	<20.0	12.36	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
21-Mar-2024/4121	<20.0	14.56	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
29-Mar-2024/4122	<20.0	16.37	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
30-Mar-2024/4123	<20.0	<10.0	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(ho ur)	1.0(24h ours)	6.0(An nual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(annu al)

Table: 193

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (Reported Only)							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzen e (µg/m ³)
03-Apr-2023/235	<20.0	5.92	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
04-Apr-2023/236	<20.0	6.26	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
10-Apr-2023/237	<20.0	4.19	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
11-Apr-2023/238	<20.0	5.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
17-Apr-2023/149	<20.0	6.88	<0.1	<1.0	<1.0	0.1	BQL(QL=0.5)	BQL(QL=2.5)
18-Apr-2023/150	<20.0	5.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Apr-2023/151	<20.0	6.12	<0.1	<1.0	<1.0	0.4	BQL(QL=0.5)	BQL(QL=2.5)
25-Apr-2023/152	<20.0	5.83	<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: 194

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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)
02-May-23	<20.0	5.23	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
03-May-23	<20.0	4.63	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
08-May-23	<20.0	4.08	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.5)	BQL(Q L=2.5)
09-May-23	<20.0	7.25	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
16-May-23	<20.0	5.15	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
17-May-23	<20.0	6.04	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.5)	BQL(Q L=2.5)
22-May-23	<20.0	5.31	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.5)	BQL(Q L=2.5)
23-May-23	<20.0	5.62	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.5)	BQL(Q L=2.5)
30-May-23	<20.0	5.14	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.5)	BQL(Q L=2.5)
31-May-23	<20.0	6.01	<0.1	<1.0	<1.0	0.4	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: 194

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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-Jun-2023/846	<20.0	7.55	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
02-Jun-2023/847	<20.0	6.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
09-Jun-2023/818	<20.0	6.88	<0.1	<1.0	<1.0	0.97	BQL(QL=0.5)	BQL(QL=2.5)
10-Jun-2023/849	<20.0	7.23	<0.1	<1.0	<1.0	0.53	BQL(QL=0.5)	BQL(QL=2.5)
16-Jun-2023/1021	<20.0	6.12	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
17-Jun-2023/1022	<20.0	6.15	<0.1	<1.0	<1.0	0.3	BQL(QL=0.5)	BQL(QL=2.5)
23-Jun-2023/1023	<20.0	4.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.5)	BQL(QL=2.5)
24-Jun-2023/1024	<20.0	5.12	<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: 195

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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-Jul-2023	<20.0	3.99	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
04-Jul-2023	<20.0	4.56	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
10-Jul-2023	<20.0	7.25	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
11-Jul-2023	<20.0	4.68	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
17-Jul-2023	<20.0	5.98	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
18-Jul-2023	<20.0	6.31	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
24-Jul-2023	<20.0	4.78	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
25-Jul-2023	<20.0	7.21	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	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: 196

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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	4.56	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
02-Aug-2023	<20.0	4.89	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
07-Aug-2023	<20.0	7.26	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL(QL=2.5)
08-Aug-2023	<20.0	5.45	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
16-Aug-2023	<20.0	5.39	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
17-Aug-2023	<20.0	6.64	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
23-Aug-2023	<20.0	4.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
24-Aug-2023	<20.0	4.57	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL(QL=2.5)
30-Aug-2023	<20.0	5.85	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL(QL=2.5)
31-Aug-2023	<20.0	4.63	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL(QL=2.5)
Standard	400(24h ours)	180(hou r)	1.0(24h ours)	6.0(Ann ual)	20(Ann ual)	04(1ho urs)	01(annu al)	05(ann ual)

Table: 197

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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	5.47	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
02-Sep-2023	<20.0	7.05	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
08-Sep-2023	<20.0	7.01	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
09-Sep-2023	<20.0	7.63	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
18-Sep-2023	<20.0	8.04	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
19-Sep-2023	<20.0	5.91	<0.1	<1.0	<1.0	0.3	BQL(Q L=0.7)	BQL
27-Sep-2023	<20.0	6.72	<0.1	<1.0	<1.0	0.2	BQL(Q L=0.7)	BQL
28-Sep-2023	<20.0	6.99	<0.1	<1.0	<1.0	0.1	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24 hours)	6.0(A nnual)	20(An nual)	04(1h ours)	01(ann ual)	05(annu al)

Table: 198

Area: Talcher

Monitoring Station	Near Natedi Village (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-2023/2253	<20.0	9.03	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
04-Oct-2023/2254	<20.0	6.86	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
09-Oct-2023/2255	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
10-Oct-2023/2256	<20.0	7.55	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
16-Oct-2023/2338	<20.0	6.88	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
17-Oct-2023/2339	<20.0	9.68	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
25-Oct-2023/2340	<20.0	10.24	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
26-Oct-2023/2341	<20.0	12.20	<0.1	<1.0	<1.0	0.5	BQL(Q L=0.7)	BQL
30-Oct-2023/2342	<20.0	11.20	<0.1	<1.0	<1.0	0.6	BQL(Q L=0.7)	BQL
31-Oct-2023/2367	<20.0	10.84	<0.1	<1.0	<1.0	0.4	BQL(Q L=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24 hours)	6.0(An nual)	20(Ann ual)	04(1ho urs)	01(ann ual)	05(annu al)

Table: 199

Area: Talcher*All value*

Project	Nandira OCP							
Monitoring Station	Near Natedi Village(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)
02-Nov-2023/	<20.0	7.23	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Nov-2023/	<20.0	7.59	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
04-Nov-2023/	<20.0	7.82	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
05-Nov-2023/	<20.0	8.46	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
05-Nov-2023/	<20.0	8.29	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Nov-2023/	<20.0	9.41	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
12-Nov-2023/	<20.0	9.53	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
18-Nov-2023/	<20.0	8.52	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
19-Nov-2023/	<20.0	7.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
24-Nov-2023/	<20.0	7.63	<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: 200

Area: Talcher

All value

Project	Nandira OCP							
Monitoring Station	Near Natedi Village(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	8.96	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Dec-2023/	<20.0	8.63	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
03-Dec-2023/	<20.0	8.48	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
03-Dec-2023/	<20.0	8.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Dec-2023/	<20.0	8.16	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
12-Dec-2023/	<20.0	8.34	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
13-Dec-2023/	<20.0	8.49	<0.1	<1.0	<1.0	0.2	BQL(QL=0.7)	BQL
19-Dec-2023/	<20.0	9.21	<0.1	<1.0	<1.0	0.1	BQL(QL=0.7)	BQL
20-Dec-2023/	<20.0	8.49	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
21-Dec-2023/	<20.0	8.62	<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: 201

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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	5.14	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
02-Jan-2024	<20.0	6.31	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Jan-2024	<20.0	7.55	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
09-Jan-2024	<20.0	6.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
16-Jan-2024	<20.0	7.60	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
17-Jan-2024	<20.0	6.34	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
22-Jan-2024	<20.0	7.09	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
23-Jan-2024	<20.0	4.67	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
30-Jan-2024	<20.0	6.04	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
31-Jan-2024	<20.0	9.03	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
Standard	400(24 hours)	180(hour)	1.0(24 hours)	6.0(Annual)	20(Annual)	04(1hours)	01(annual)	05(annual)

Table: 202

Area: Talcher

Project	Bharatpur OCP							
Monitoring Station	Near Natedi Village(Reported Only)							
Date of sampling	Ammonia (NH ₃) (µg/m ³)	Ozone (O ₃) (µg/m ³)	Lead (Pb) (µg/m ³)	Arsenic (As) (ng/m ³)	Nickel (Ni) (ng/m ³)	CO (mg/m ³)	Benzo (α) Pyrene (ng/m ³)	Benzene (µg/m ³)
01-Feb-2024	<20.0	8.47	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
02-Feb-2024	<20.0	8.49	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
08-Feb-2024	<20.0	8.46	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
10-Feb-2024	<20.0	7.95	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
11-Feb-2024	<20.0	7.89	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
12-Feb-2024	<20.0	7.84	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
13-Feb-2024	<20.0	7.36	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
23-Feb-2024	<20.0	8.52	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
24-Feb-2024	<20.0	9.26	<0.1	<1.0	<1.0	0.3	BQL(QL=0.7)	BQL
26-Feb-2024	<20.0	9.48	<0.1	<1.0	<1.0	0.4	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: 203

Area: Talcher

Project	Nandira							
Monitoring Station	Near Natedi Village (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	12.34	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
02-Mar-2024	<20.0	15.23	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
08-Mar-2024	<20.0	11.88	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
09-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.4	BQL(QL=0.7)	BQL
18-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
19-Mar-2024	<20.0	<10.0	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
27-Mar-2024	<20.0	12.66	<0.1	<1.0	<1.0	0.5	BQL(QL=0.7)	BQL
28-Mar-2024	<20.0	14.32	<0.1	<1.0	<1.0	0.6	BQL(QL=0.7)	BQL
Standard	400(24h ours)	180(hou r)	1.0(24 hours)	6.0(An nual)	20(Ann ual)	04(1hou rs)	01(ann ual)	05(ann ual)



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 surrounding rivers and streams (Up-Stream & Down-Stream), Ponds and Effluent water sample from OCP mine sump water & domestic& effluent treatment plants were collected. Well Water level (bgl in meter) 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 village

9.2.1 EFFLUENT WATER ANALYTICAL RESULTS

Table:9.1

Area: Jagannath

Project: Jagannath OCP

Monitoring station: Near MDTP

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.41	<4.0	46	32
24-Apr-23	7.29	<4.0	40	36
09-May-23	7.43	<4.0	32	24
23-May-23	7.59	<4.0	40	36
08-Jun-23	7.39	<4.0	28	20
22-Jun-23	7.19	<4.0	38	32
10-Jul-23	7.33	<4.0	44	36
27-Jul-23	7.45	<4.0	48	40
07-Aug-23	7.28	<4.0	40	32
21-Aug-23	7.24	<4.0	40	28
06-Sep-23	7.79	<4.0	32	36
25-Sep-23	7.33	<4.0	26	20
09-Oct-23	7.69	<4.0	44	28
25-Oct-23	7.44	<4.0	52	20
06-Nov-23	7.15	<4.0	36	20
20-Nov-23	7.43	<4.0	30	28
06-Dec-23	7.75	<4.0	36	28
20-Dec-23	6.2	<4.0	34	32
03-Jan-24	6.74	<4.0	24	16
22-Jan-24	6.87	<4.0	32	20
05-Feb-24	7.48	<4.0	34	28
21-Feb-24	7.61	<4.0	42	36
06-Mar-24	7.4	<4.0	30	24
27-Mar-24	7.24	<4.0	28	20

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

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

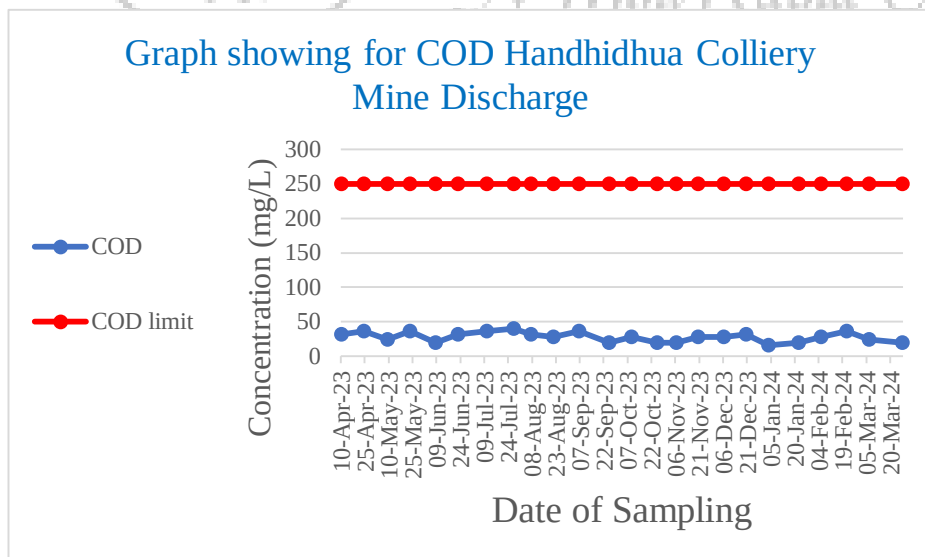
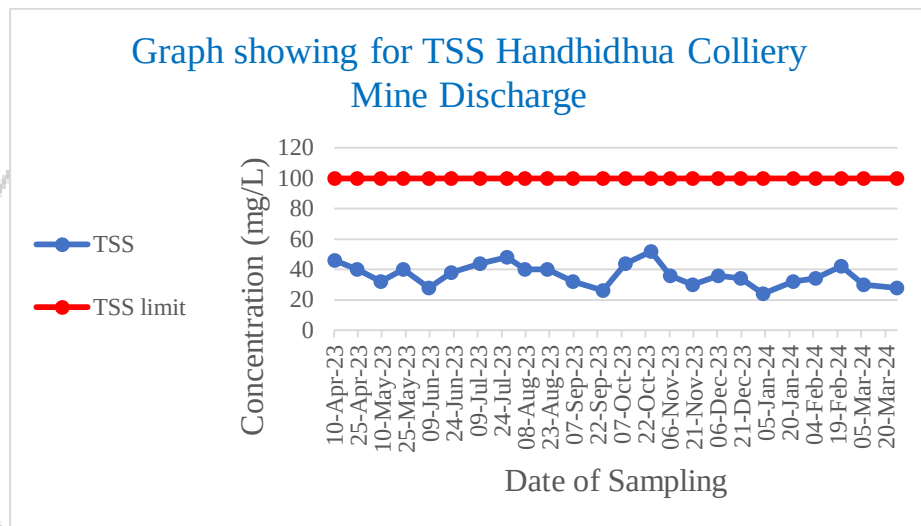
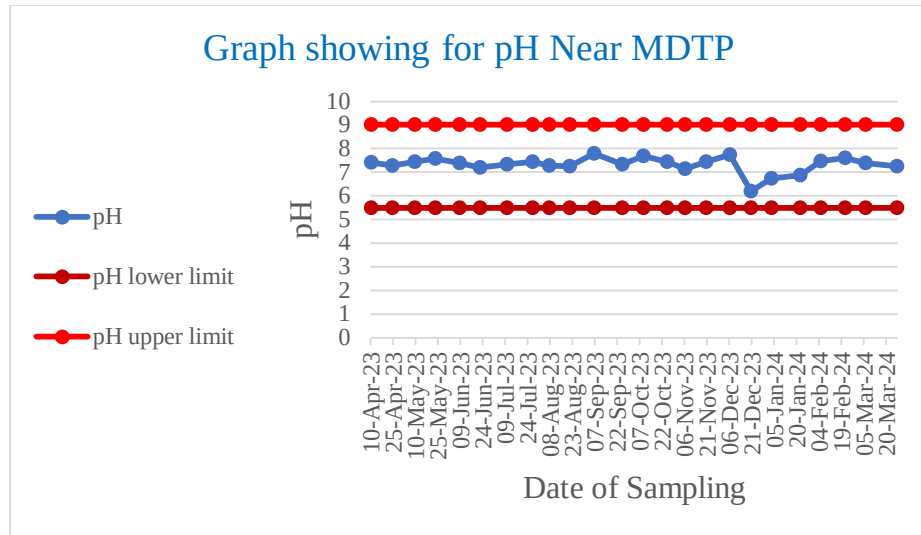


Table:9.2

Area: Jagannath**Project:** Jagannath OCP**Monitoring station:** O & G Trap Inlet

Date of Sampling	pH	Oil & Grease	TSS	COD
08-Jun-23	6.76	<4.0	48	44
06-Sep-23	7.2	<4.0	48	24
06-Dec-23	7.49	<4.0	34	36
06-Mar-24	6.75	<4.0	42	28

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



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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

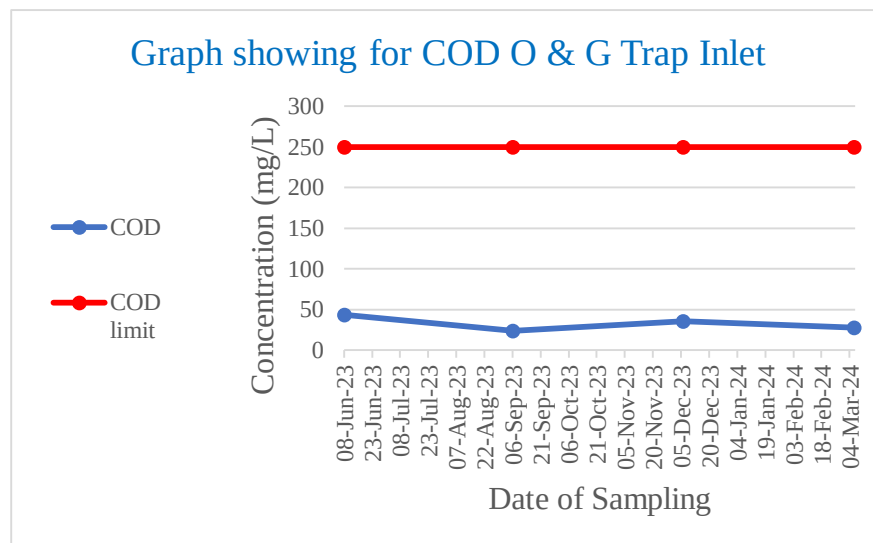
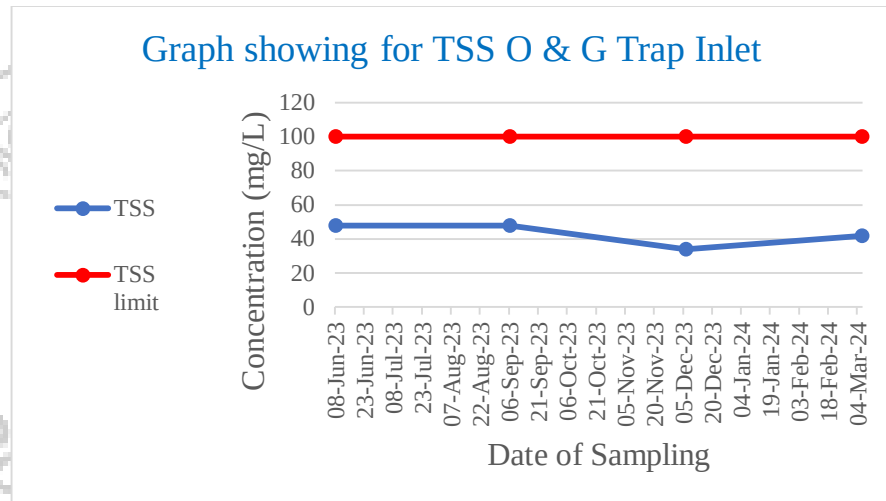
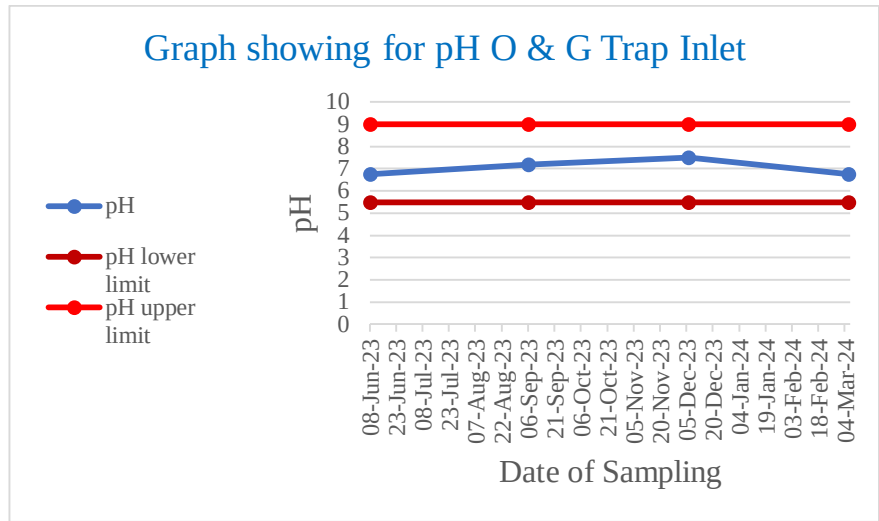


Table:9.3

Area: Jagannath**Project:** Jagannath OCP**Monitoring station:** O & G Trap Outlet

Date of Sampling	pH	Oil & Grease	TSS	COD
08-Jun-23	6.93	<4.0	32	28
06-Sep-23	7.36	<4.0	34	16
06-Dec-23	7.81	<4.0	30	24
06-Mar-24	6.94	<4.0	34	16

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



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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

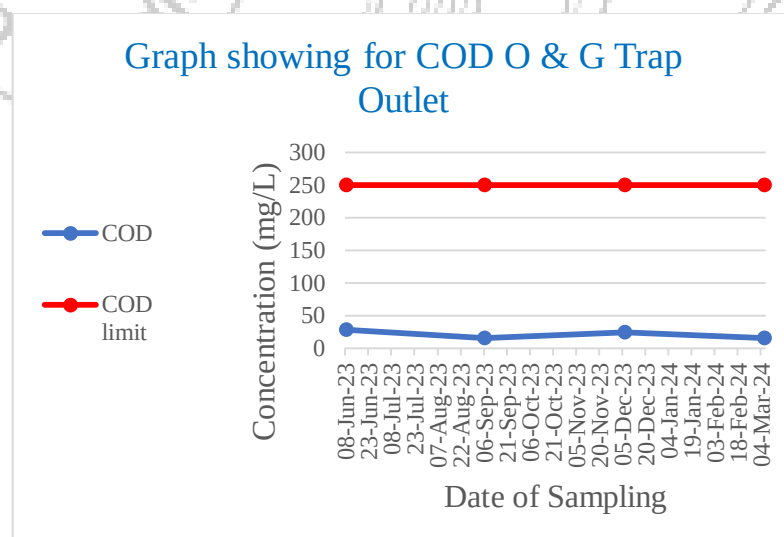
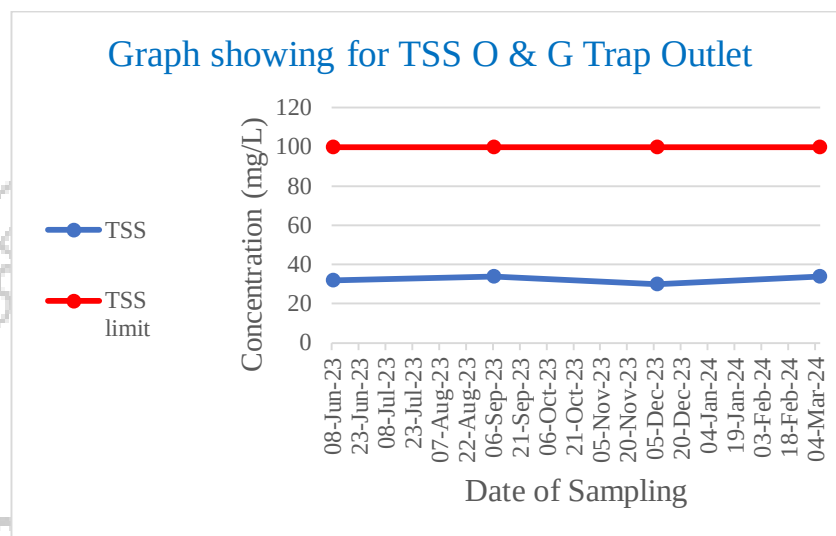
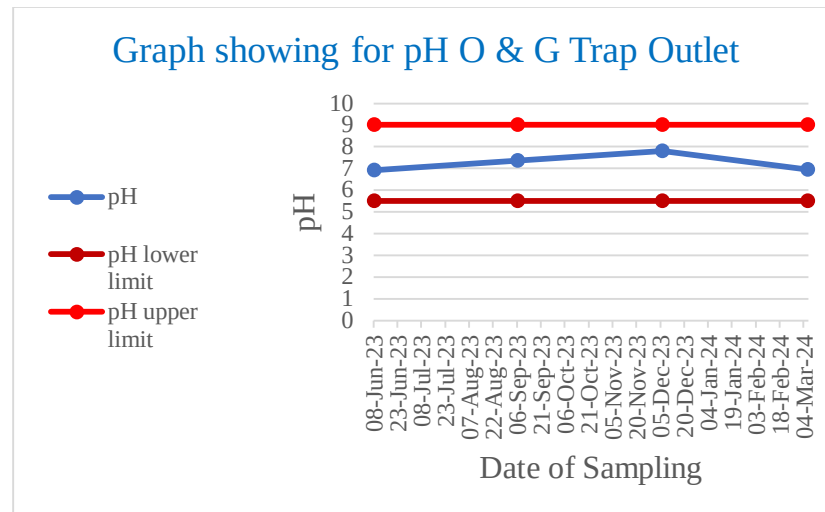


Table:9.4

Area: Jagannath**Project:** Jagannath OCP**Monitoring station:** Face Sump

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Aug-23	5.87	<4.0	46	24
05-Feb-24	7.4	<4.0	38	36

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



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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:9.5

Area: Jagannath**Project:** Jagannath OCP**Monitoring station:** STP INLET

Date of Sampling	pH	TSS	BOD	MPN/100mL
09-May-23	7.45	48	<2	220 MPN/100mL
07-Aug-23	6.95	42	<2	40
06-Nov-23	7.23	44	<2	94
05-Feb-24	7.29	48	<2	110

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



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	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

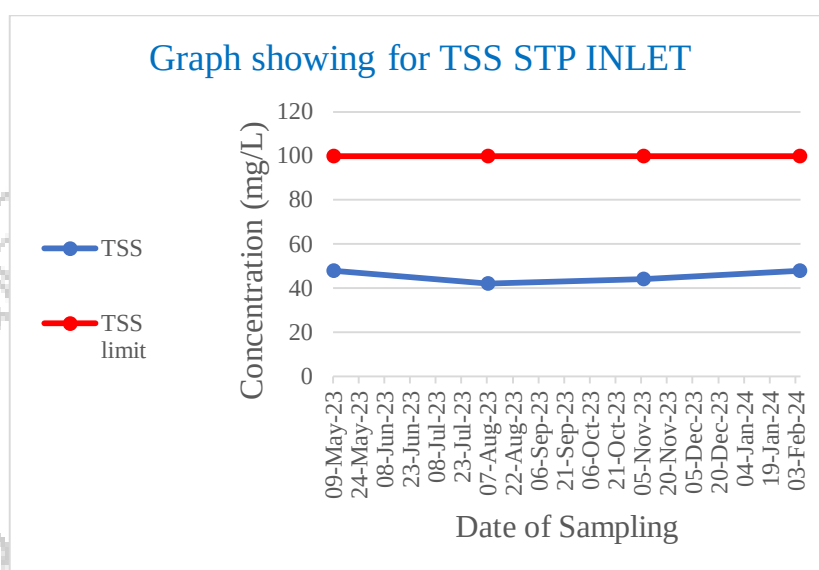
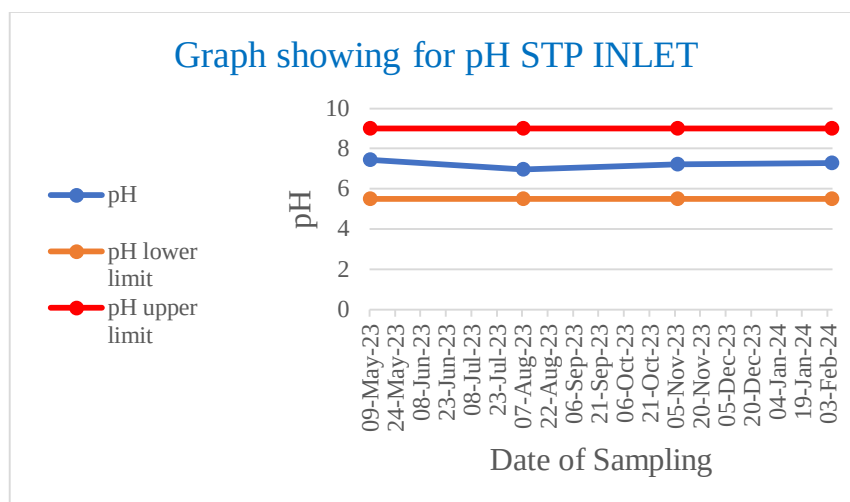


Table:9.6

Area: Jagannath**Project:** Jagannath OCP**Monitoring station:** STP OUTLET

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-Apr-23	7.63	34	<2	1.1
24-Apr-23	7.79	42	<2	1.1
09-May-23	7.63	34	<2	1.1 MPN/100 mL
23-May-23	7.75	42	<2	1.8 MPN/100 mL
08-Jun-23	7.33	38	<2	20
22-Jun-23	7.51	32	<2	15
10-Jul-23	7.68	38	<2	24
27-Jul-23	7.71	34	<2	21
07-Aug-23	7.18	34	<2	33
21-Aug-23	6.82	42	<2	27
06-Sep-23	7.69	38	<2	38
25-Sep-23	7.86	30	<2	42
09-Oct-23	7.23	38	<2	70
25-Oct-23	7.14	38	<2	63
06-Nov-23	7.76	30	<2	70
20-Nov-23	7.94	26	<2	63
06-Dec-23	8.35	38	<2	43
20-Dec-23	7.73	40	<2	58
03-Jan-24	7.13	30	<2	46
22-Jan-24	7.3	26	<2	63
05-Feb-24	7.42	36	<2	46
21-Feb-24	7.56	44	<2	38
06-Mar-24	7.57	34	<2	70
27-Mar-24	7.73	26	<2	63

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

	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

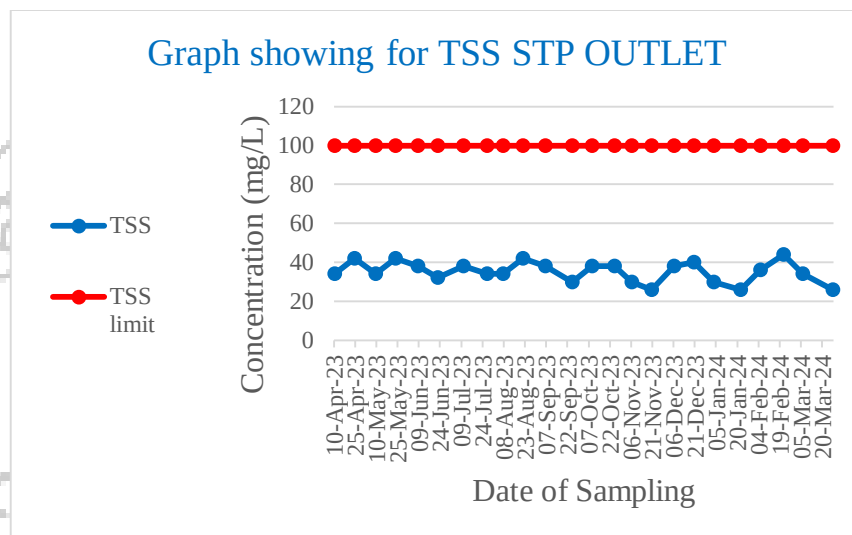
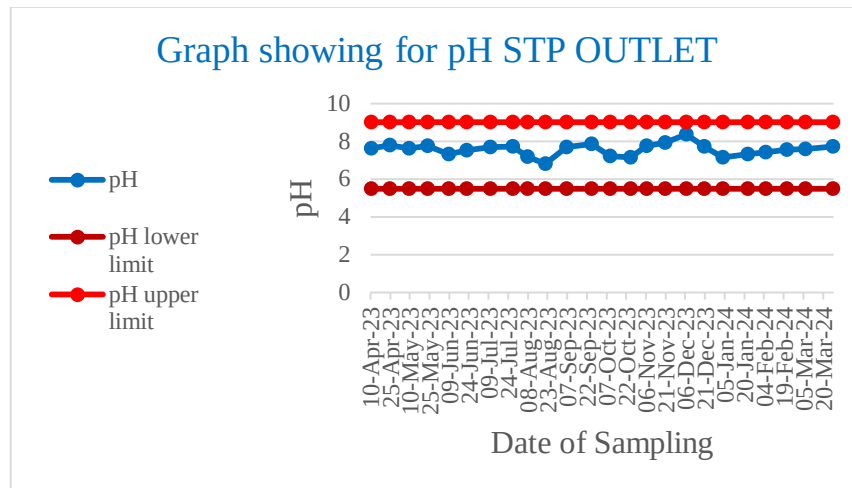


Table:9.7

Area: Jagannath**Project:** Ananta OCP**Monitoring station:** O & G Trap Inlet

Date of Sampling	pH	Oil & Grease	TSS	COD
08-Jun-23	7.28	<4.0	52	44
06-Sep-23	6.78	<4.0	42	32
06-Dec-23	7.56	<4.0	36	24
06-Mar-24	7.33	<4.0	54	36

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



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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

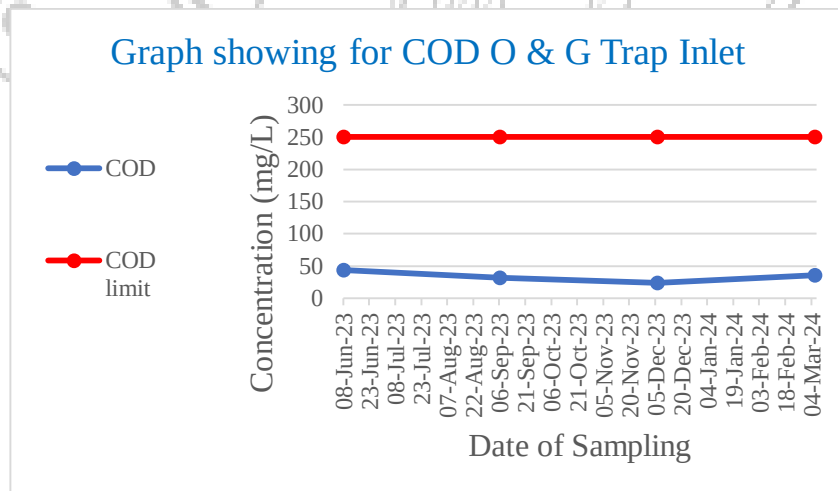
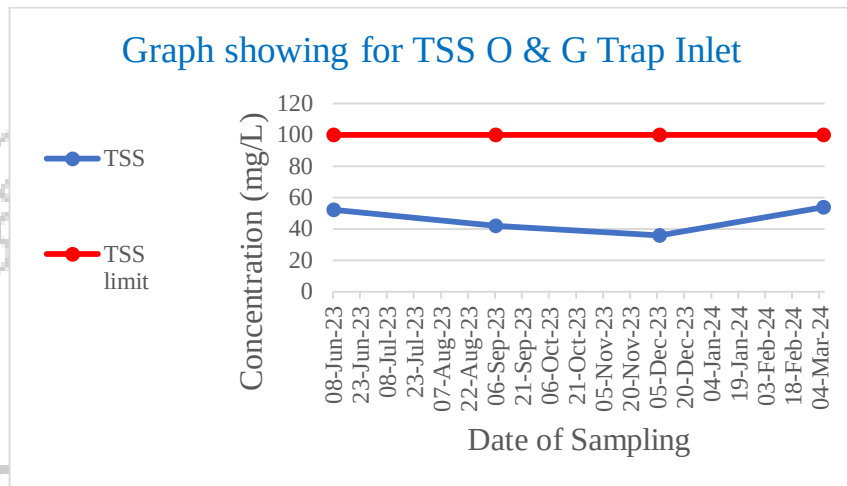
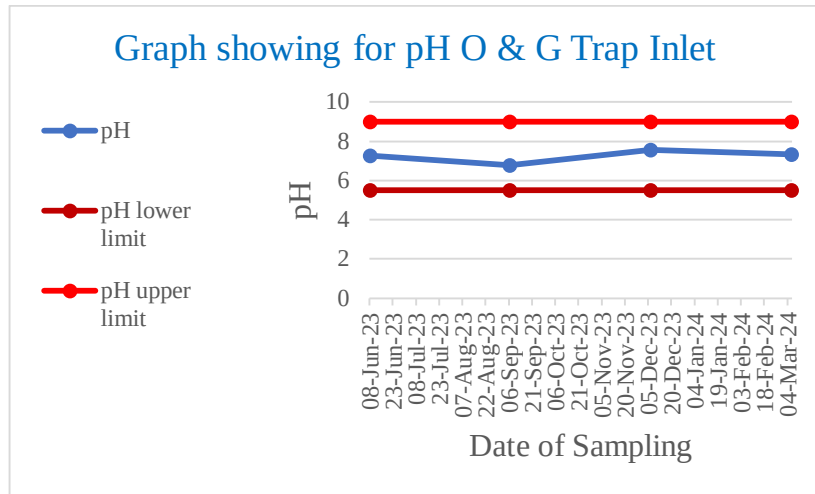


Table:9.8

Area: Jagannath**Project:** Ananta OCP**Monitoring station:** O & G Trap Outlet

Date of Sampling	pH	Oil & Grease	TSS	COD
08-Jun-23	7.47	<4.0	36	32
06-Sep-23	7.16	<4.0	30	24
06-Dec-23	8.1	<4.0	30	16
06-Mar-24	7.52	<4.0	38	32

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



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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

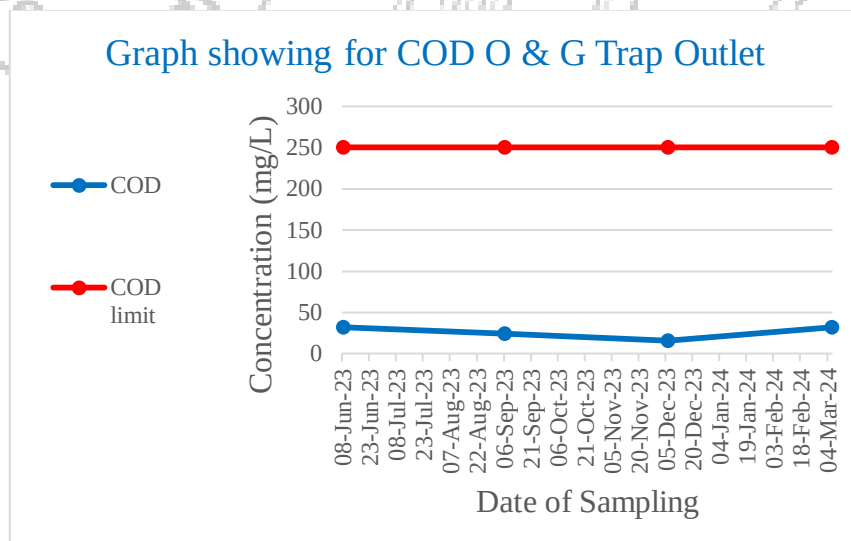
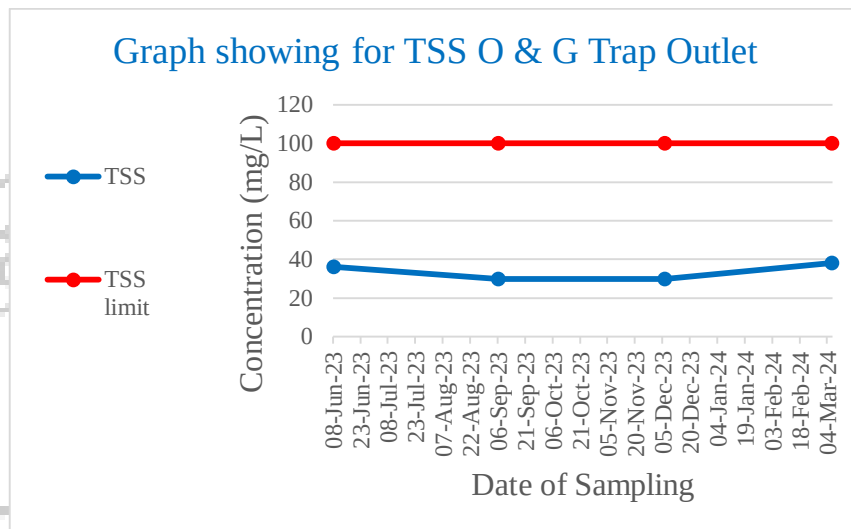
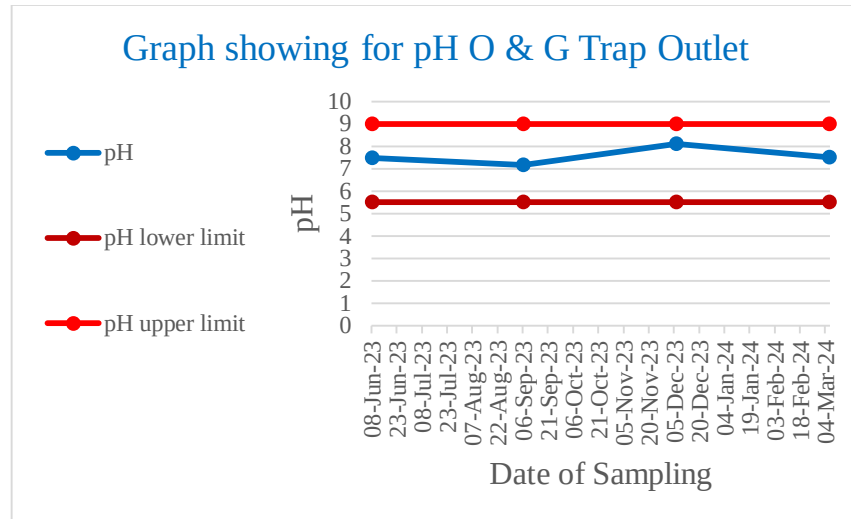


Table:9.9

Area: Jagannath**Project:** Ananta OCP**Monitoring station:** STP INLET

Date of Sampling	pH	TSS	BOD	MPN/100mL
09-May-23	7.49	54	<2	240 MPN FC /100 mL
07-Aug-23	6.76	52	<2	50
06-Nov-23	6.68	52	<2	120
05-Feb-24	7.35	46	<2	94

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



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	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

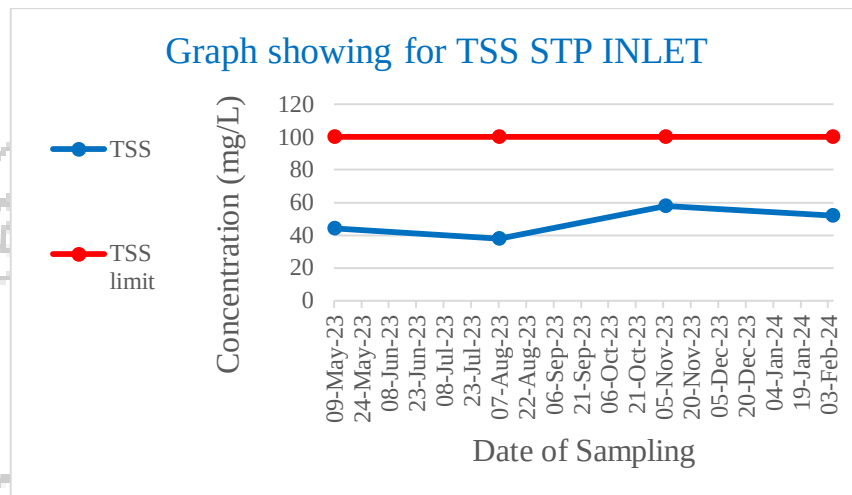
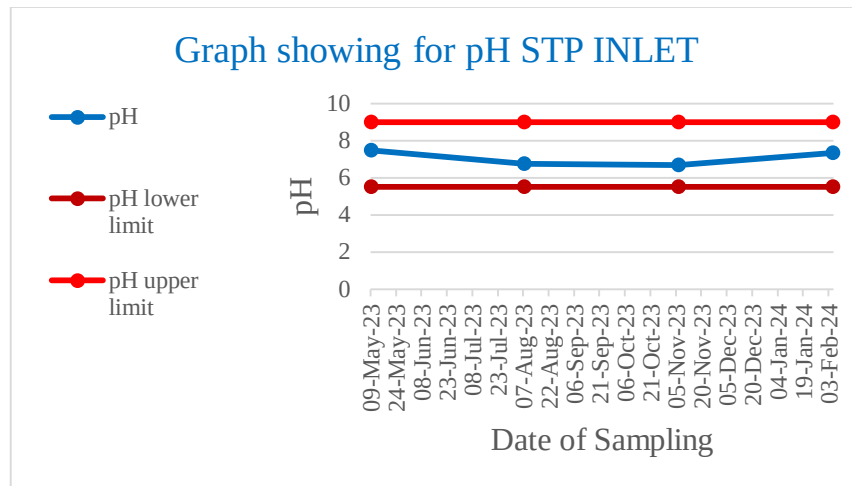


Table:9.10

Area: Jagannath**Project:** Ananta OCP**Monitoring station:** STP OUTLET

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-Apr-23	7.54	26	<2	1.1
24-Apr-23	7.86	34	<2	1.1
09-May-23	7.69	38	<2	1.8 MPN FC /100 mL
23-May-23	7.53	32	<2	1.1 MPN FC /100 mL
08-Jun-23	7.61	30	<2	24
22-Jun-23	7.73	36	<2	20
10-Jul-23	7.96	30	<2	20
27-Jul-23	7.84	38	<2	21
07-Aug-23	7.1	38	<2	33
21-Aug-23	6.88	34	<2	30
06-Sep-23	7.19	40	<2	39
25-Sep-23	6.84	34	<2	44
09-Oct-23	7.07	34	<2	94
25-Oct-23	7.58	34	<2	79
06-Nov-23	6.85	38	<2	79
20-Nov-23	7.13	30	<2	79
06-Dec-23	8.18	28	<2	41
20-Dec-23	7.95	36	<2	48
03-Jan-24	6.76	40	<2	33
22-Jan-24	6.89	32	<2	46
05-Feb-24	7.52	34	<2	41
21-Feb-24	7.65	36	<2	47
06-Mar-24	7.87	32	<2	94
27-Mar-24	7.62	36	<2	79

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

	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

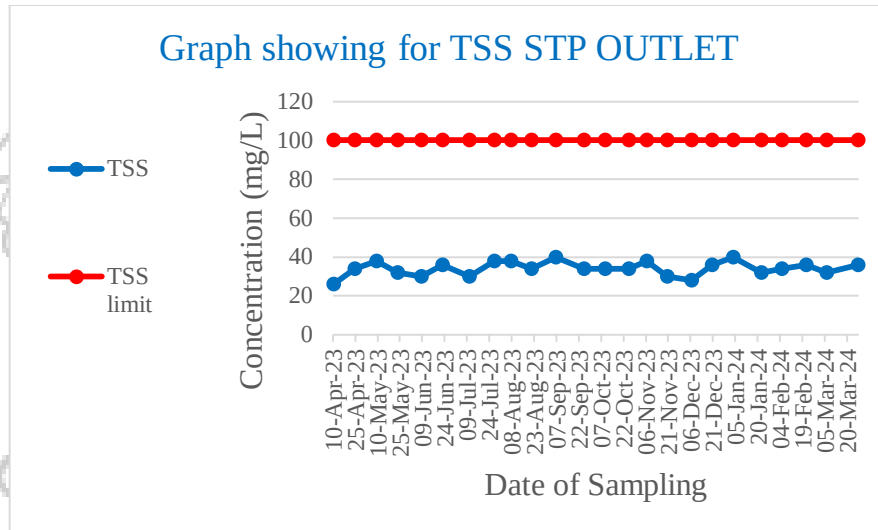
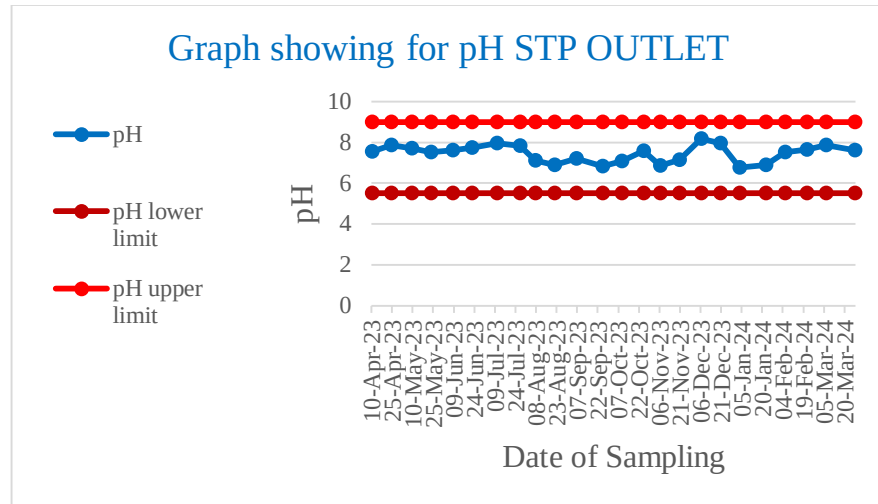


Table:9.11

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring station:** Mine Sump Water Main Sump

Date of Sampling	pH
11-Apr-23	7.36
10-May-23	7.29
09-Jun-23	7.41
10-Jul-23	7.69
07-Aug-23	7.27
06-Sep-23	7.23
09-Oct-23	5.73
06-Nov-23	7.29
06-Dec-23	7.58
03-Jan-24	7.3
05-Feb-24	7.56
06-Mar-24	7.69

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

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

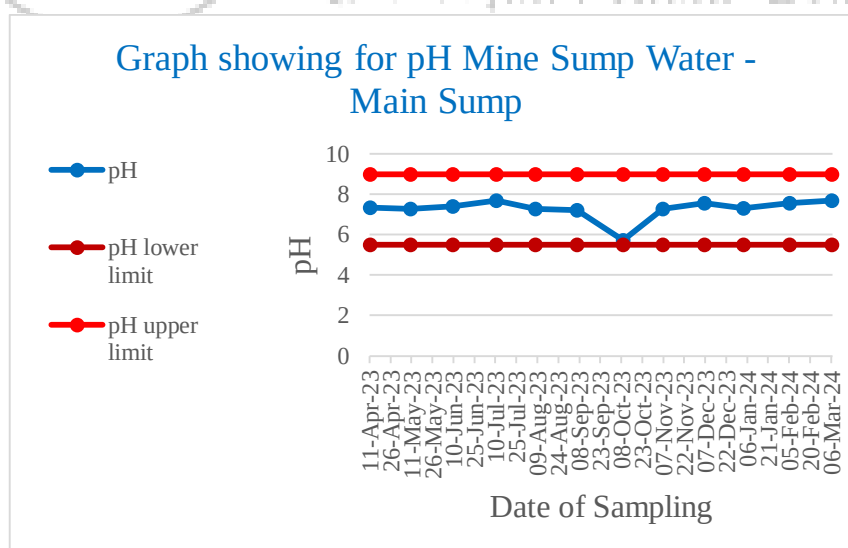


Table:9.12

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring station:** Mine Sump Water - Old Quarry Sump

Date of Sampling	pH
11-Apr-23	7.27
10-May-23	7.18
09-Jun-23	7.26
10-Jul-23	7.49
07-Aug-23	7.38
06-Sep-23	7.38
09-Oct-23	5.66
06-Nov-23	7.91
06-Dec-23	7.36
03-Jan-24	7.17
05-Feb-24	7.48
06-Mar-24	7.57

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

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

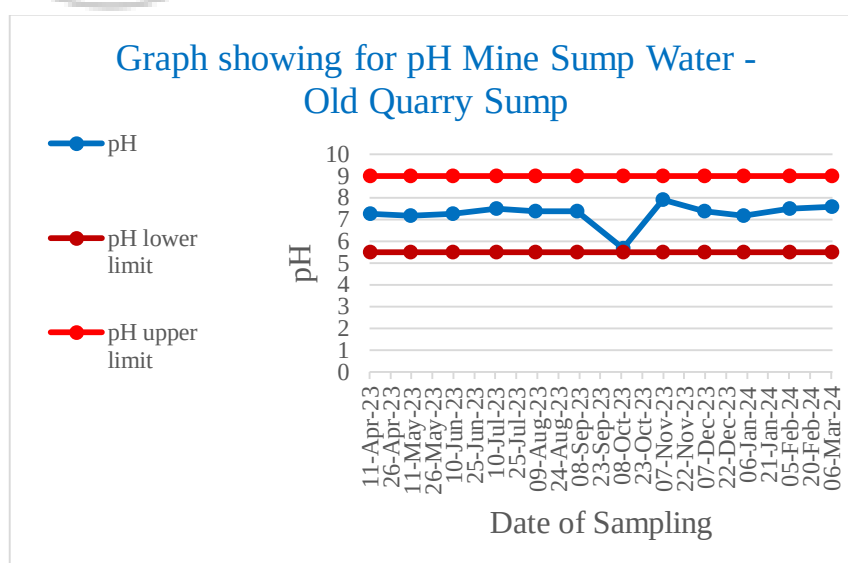


Table:9.13

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring station:** Workshop ETP Clear Water Tank

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.64	<4.0	54	32
24-Apr-23	7.51	<4.0	46	40
10-May-23	7.66	<4.0	32	24
24-May-23	7.51	<4.0	40	28
09-Jun-23	7.72	<4.0	46	38
23-Jun-23	7.6	<4.0	40	36
10-Jul-23	7.69	<4.0	46	40
27-Jul-23	7.41	<4.0	40	32
07-Aug-23	7.22	<4.0	30	24
21-Aug-23	7.13	<4.0	38	36
06-Sep-23	7.27	<4.0	28	12
25-Sep-23	7.65	<4.0	22	12
09-Oct-23	7.73	<4.0	40	32
25-Oct-23	7.46	<4.0	40	36
06-Nov-23	7.33	<4.0	38	24
21-Nov-23	7.48	<4.0	30	32
06-Dec-23	8.25	<4.0	34	12
20-Dec-23	8.04	<4.0	30	16
03-Jan-24	7.19	<4.0	26	16
22-Jan-24	7.35	<4.0	34	40
06-Feb-24	7.69	<4.0	48	40
21-Feb-24	7.39	<4.0	54	52
06-Mar-24	7.66	<4.0	46	44
27-Mar-24	7.35	<4.0	42	36

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

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

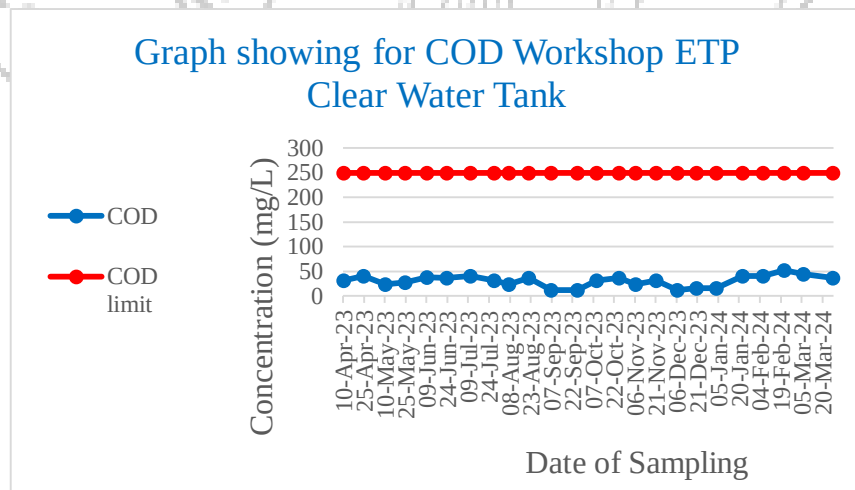
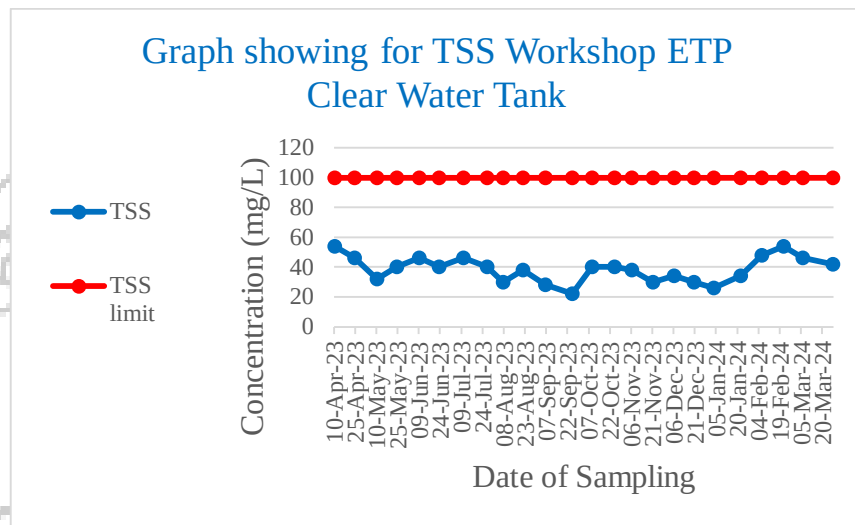
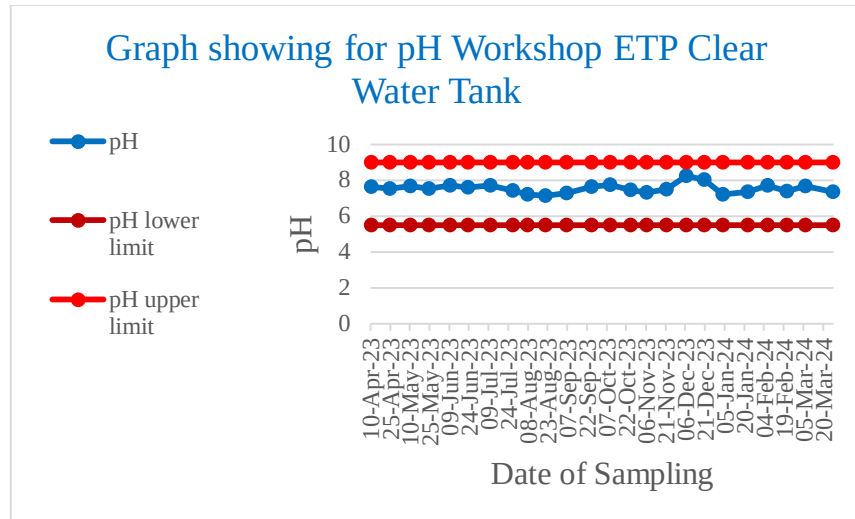


Table:9.14

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring station:** Workshop Inlet

Date of Sampling	pH	Oil & Grease	TSS	COD
10-May-23	7.37	<4.0	46	32
06-Nov-23	7.17	<4.0	48	32

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



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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:9.15

Area: Bharatpur**Project:** Bharatpur OCP1**Monitoring station:** STP Outlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
11-Apr-23	7.37	44	<2	1.1
25-Apr-23	7.55	38	<2	1.1
10-May-23	7.83	34	<2	1.8 MPN/100 mL
24-May-23	7.61	38	<2	1.8 MPN/100 mL
09-Jun-23	7.47	32	<2	21
23-Jun-23	7.68	42	<2	17
10-Jul-23	7.84	36	<2	17
27-Jul-23	7.96	44	<2	21
07-Aug-23	7.13	36	<2	26
21-Aug-23	7.29	36	<2	23
06-Sep-23	7.44	30	<2	33
25-Sep-23	6.89	34	<2	30
09-Oct-23	7.35	36	<2	83
25-Oct-23	7.83	44	<2	64
06-Nov-23	7.37	34	<2	58
21-Nov-23	7.49	28	<2	46
06-Dec-23	7.66	26	<2	39
20-Dec-23	6.24	34	<2	38
03-Jan-24	7.22	30	<2	70
22-Jan-24	7.43	36	<2	79
05-Feb-24	7.73	32	<2	49
21-Feb-24	7.61	26	<2	33
06-Mar-24	7.76	34	<2	83
27-Mar-24	7.59	26	<2	64

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

	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

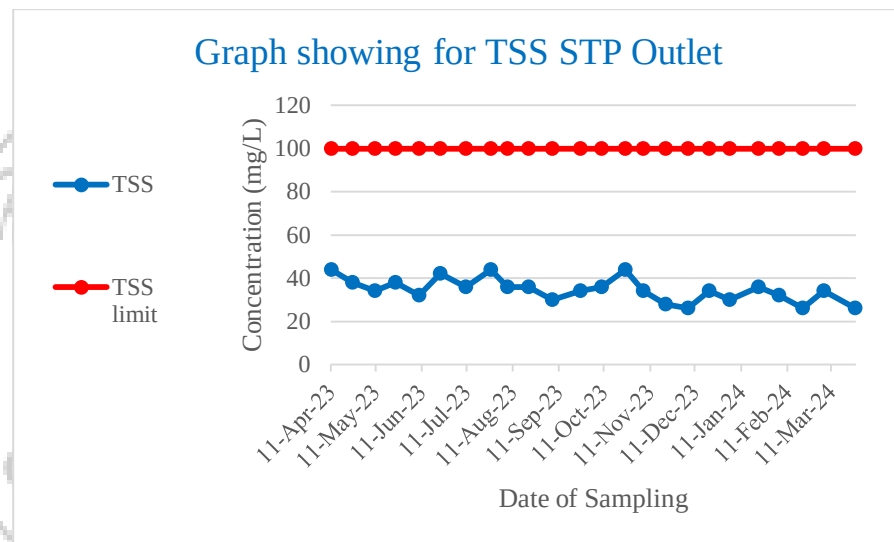
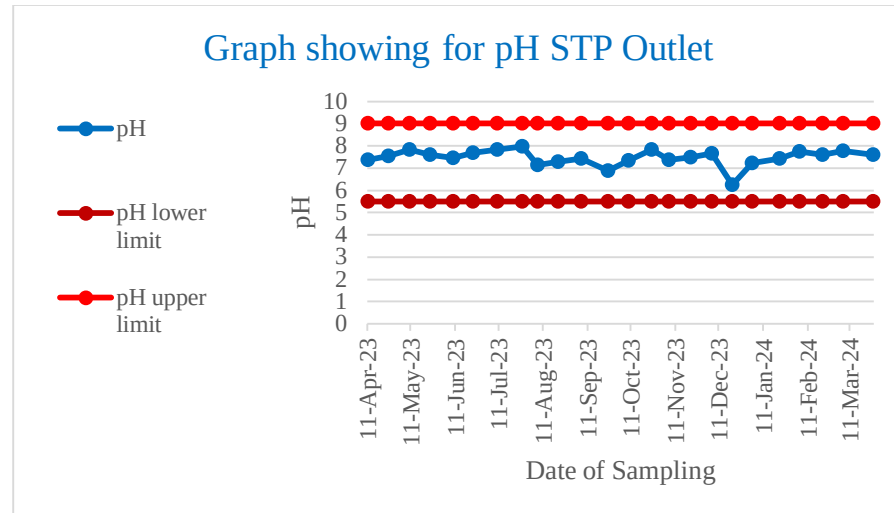


Table:9.16

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring station:** STP Intlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-May-23	7.56	48	<2	220 MPN/100mL
06-Nov-23	7.1	46	<2	110

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



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	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:9.17

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Inlet of ETP Near Dumper Parking

Date of Sampling	pH	Oil & Grease	TSS	COD
10-May-23	7.53	<4.0	46	32

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

Table:9.18

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Clear Water Reservoir of Sedimentation Pond Complex near Project Office

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Nov-23	7.24	<4.0	46	40

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

Table:9.19

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Clear Water Tank of Sedimentation Pond Complex Near Deulbera Siding

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Feb-24	7.45	<4.0	34	28

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

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: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Clear Water Tank of Sedimentation Pond Complex Near Lingraj Siding

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Nov-23	7.46	<4.0	32	16

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



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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:9.21

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Filter Outlet of Workshop ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.33	<4.0	40	24
25-Apr-23	7.42	<4.0	52	32
10-May-23	7.63	<4.0	40	24
24-May-23	7.39	<4.0	28	36
09-Jun-23	7.45	<4.0	36	28
23-Jun-23	7.59	<4.0	48	32
11-Jul-23	7.71	<4.0	40	28
28-Jul-23	7.83	<4.0	32	40
08-Aug-23	7.28	<4.0	26	20
22-Aug-23	7.39	<4.0	34	12
07-Sep-23	7.5	<4.0	40	24
26-Sep-23	7.44	<4.0	46	32
10-Oct-23	7.33	<4.0	34	20
26-Oct-23	7.44	<4.0	26	16
07-Nov-23	7.36	<4.0	38	40
22-Nov-23	7.52	<4.0	44	36
07-Dec-23	8.05	<4.0	30	24
21-Dec-23	7.39	<4.0	30	20
05-Jan-24	7.08	<4.0	36	28
23-Jan-24	7.19	<4.0	46	36
07-Feb-24	7.63	<4.0	28	24
22-Feb-24	7.66	<4.0	38	40
07-Mar-24	7.73	<4.0	32	28
28-Mar-24	7.29	<4.0	24	12

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

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

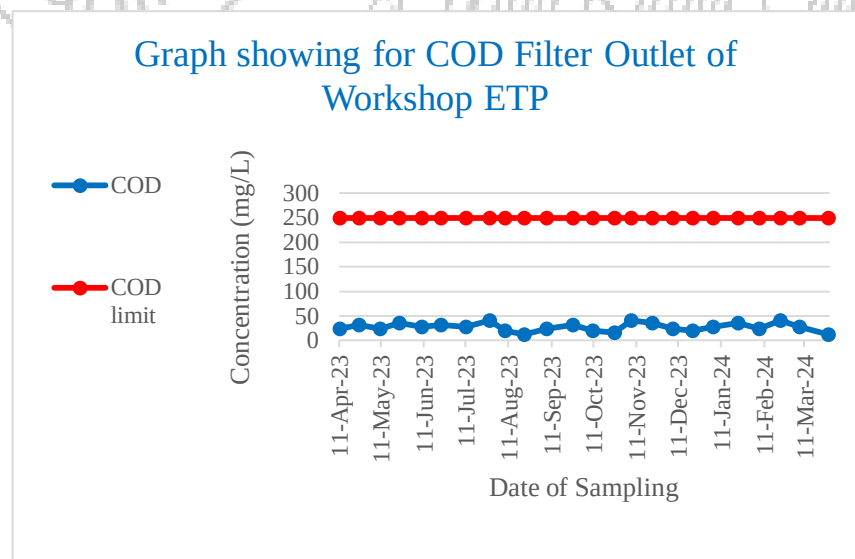
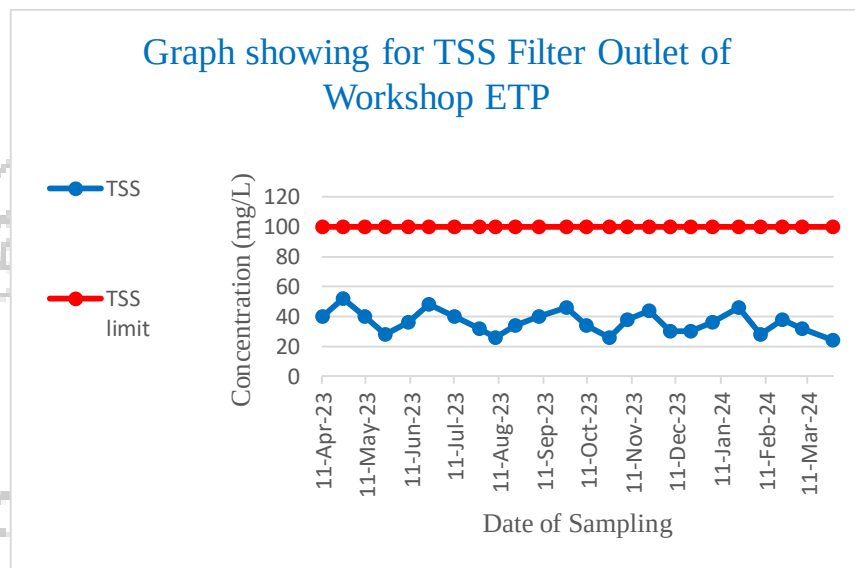
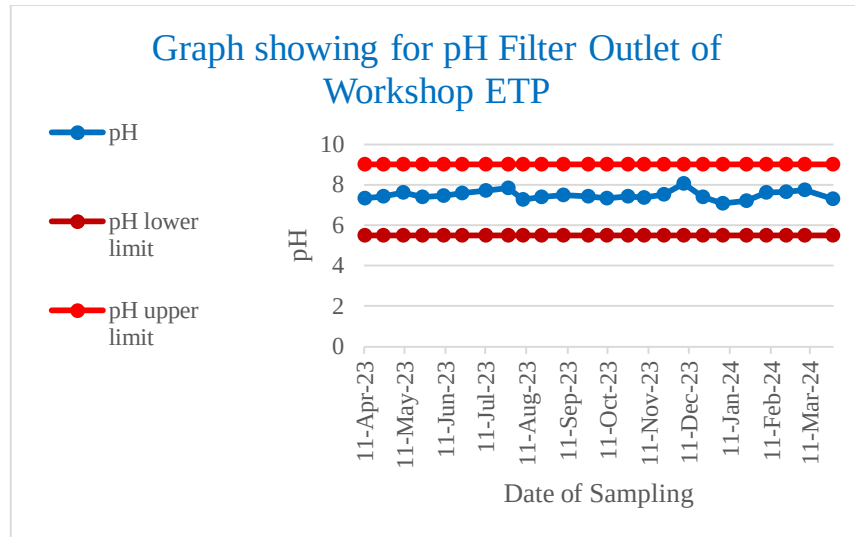


Table:9.22

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Inlet of MDTP Near Stock No. 17

Date of Sampling	pH	Oil & Grease	TSS	COD
08-Aug-23	6.73	<4.0	34	36

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

Table:9.23

Area: Lingaraj**Project** Lingaraj OCP**Monitoring station:** Inlet of Sedimentaion Pond Complex Near Deulbera Siding

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Feb-24	7.76	<4.0	30	32

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

Table:9.24

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Inlet of Sedimentation Pond Complex near Lingraj Siding

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Nov-23	7.11	<4.0	36	20

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

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: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Inlet of Sedimentation Pond Complex near Project Office

Date of Sampling	pH	Oil & Grease	TSS	COD
07-Nov-23	7.53	<4.0	40	36

All values are in mg/l except pH & FC (MPN/100 m L)Table:9.26

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Inlet of Workshop ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
10-May-23	7.37	<4.0	54	36

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

Table:9.27

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring station:** Clear Water Reservoir of MDTP Near Stock No. 17

Date of Sampling	pH	Oil & Grease	TSS	COD
08-Aug-23	7.04	<4.0	44	28

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

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:9.28

Area: Lingaraj**Project** Lingaraj OCP**Monitoring station:** Clear Water Reservoir of ETP Near Dumper Parking

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Apr-23	7.49	<4.0	48	36
25-Apr-23	7.59	<4.0	58	40
10-May-23	7.73	<4.0	36	20
24-May-23	7.56	<4.0	36	28
09-Jun-23	7.67	<4.0	54	44
23-Jun-23	7.49	<4.0	46	40
11-Jul-23	7.62	<4.0	34	24
28-Jul-23	7.49	<4.0	40	36
08-Aug-23	7.47	<4.0	42	40
22-Aug-23	7.62	<4.0	52	32
07-Sep-23	7.27	<4.0	46	28
26-Sep-23	7.84	<4.0	56	40
10-Oct-23	7.39	<4.0	16	12
26-Oct-23	7.29	<4.0	42	24
07-Nov-23	7.07	<4.0	32	32
22-Nov-23	7.26	<4.0	40	28
07-Dec-23	7.96	<4.0	36	32
21-Dec-23	7.17	<4.0	32	36
05-Jan-24	7.29	<4.0	40	32
23-Jan-24	7.46	<4.0	32	24
07-Feb-24	7.59	<4.0	24	12
22-Feb-24	7.71	<4.0	42	44
07-Mar-24	7.86	<4.0	44	32
28-Mar-24	7.38	<4.0	35	32

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

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

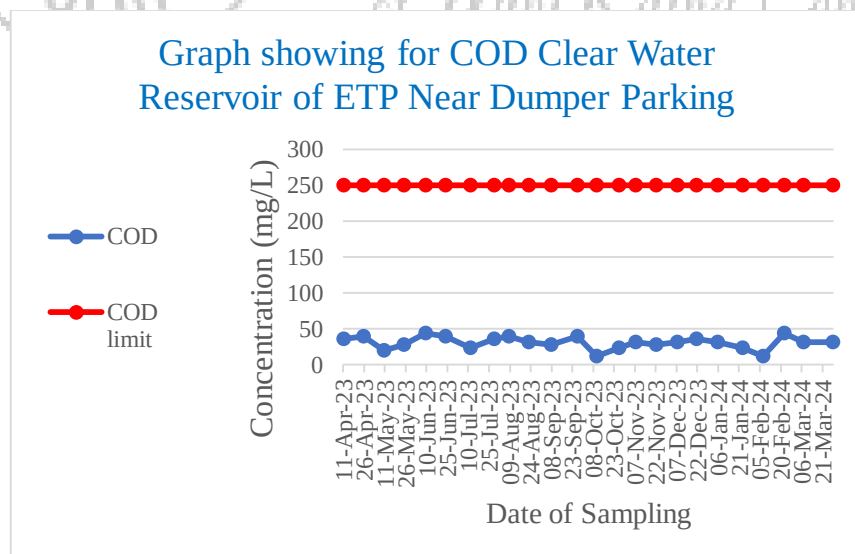
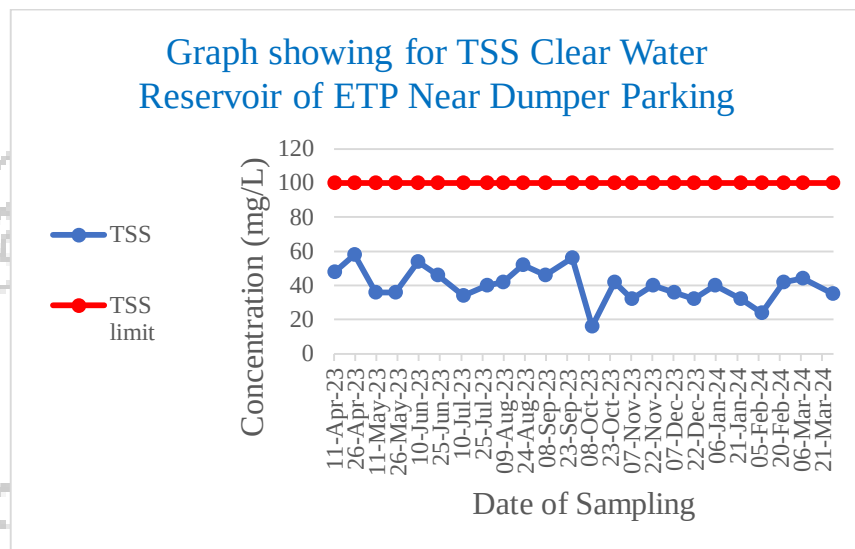
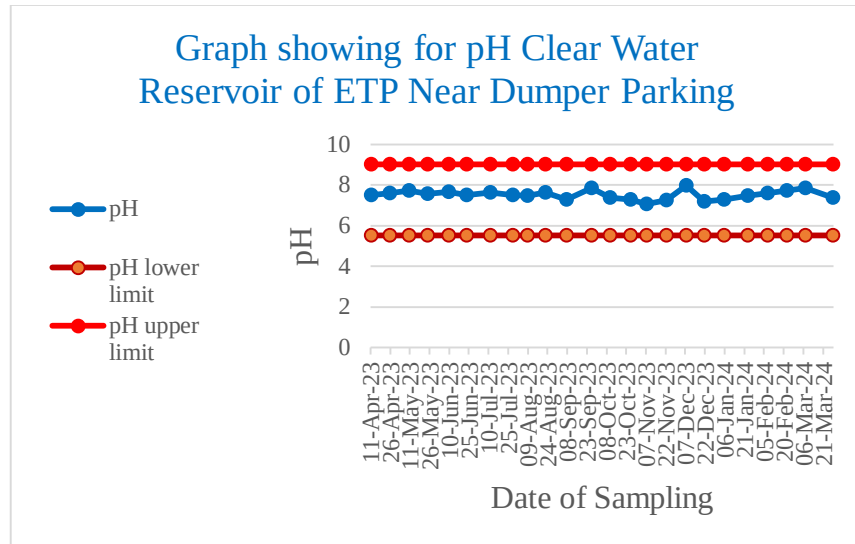


Table:9.29

Area: Lingaraj OC**Project:** Lingaraj OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH
10-May-23	7.33
08-Aug-23	7.22
07-Nov-23	7.1
05-Jan-24	7.33

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

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

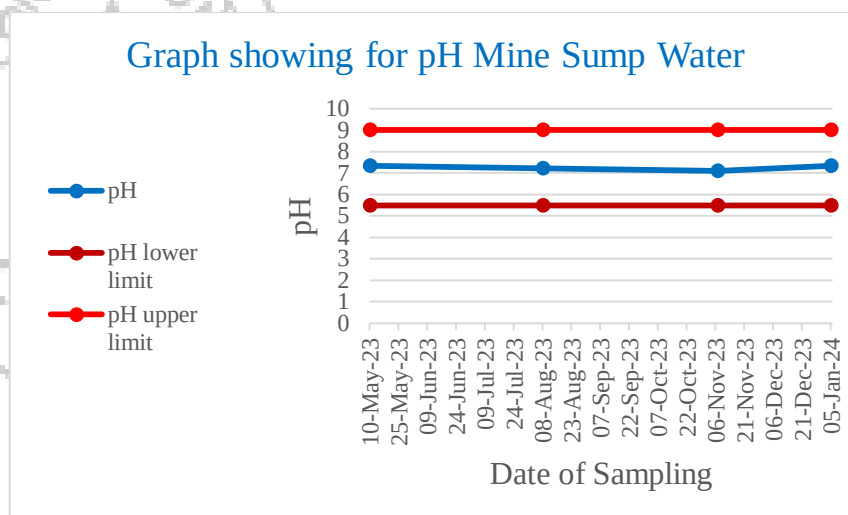


Table:9.30

Area: Lingaraj OCP**Project** Lingaraj OCP**Monitoring station:** STP Inlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
10-May-23	7.62	48	<2	110 MPN/100mL
08-Aug-23	6.06	40	<2	37
07-Nov-23	7.27	42	<2	130
07-Feb-24	7.33	36	<2	79

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

	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

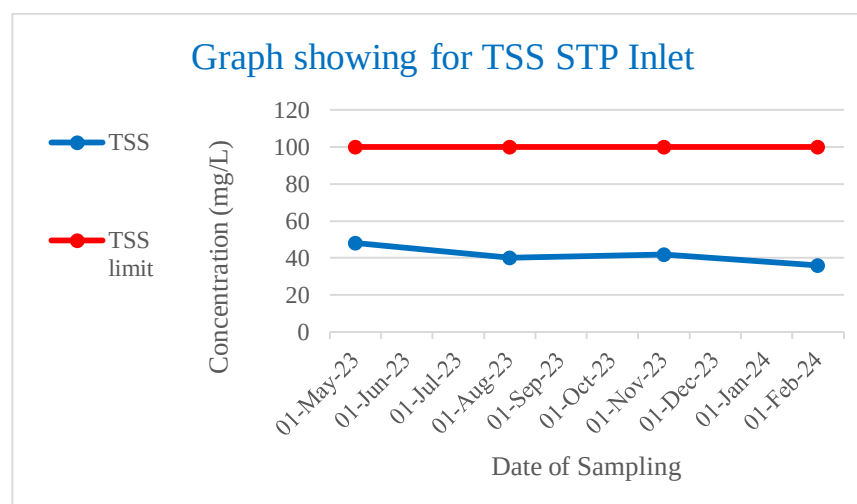
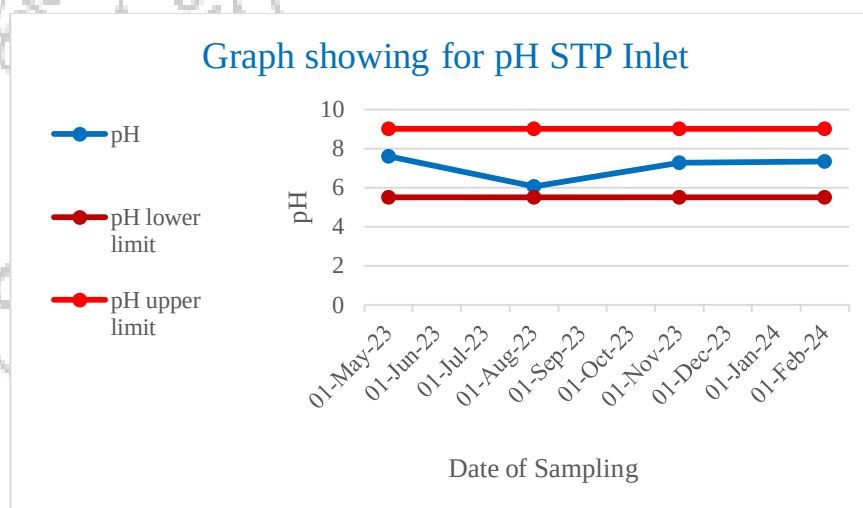


Table:9.31

Area: Lingaraj OCP**Project** Lingaraj OCP**Monitoring station:** STP Outlet

Date of Sampling	pH	TSS	BOD	MPN/100mL
11-Apr-23	7.57	42	<2	1.1
25-Apr-23	7.71	36	<2	1.1
10-May-23	7.89	30	<2	1.8 MPN/100 mL
24-May-23	7.71	24	<2	1.1 MPN/100 mL
09-Jun-23	7.59	28	<2	24
23-Jun-23	7.37	34	<2	25
11-Jul-23	7.52	38	<2	22
28-Jul-23	7.39	32	<2	34
08-Aug-23	6.89	38	<2	26
22-Aug-23	7.12	30	<2	26
07-Sep-23	6.74	34	<2	43
26-Sep-23	6.89	38	<2	38
10-Oct-23	7.47	22	<2	70
26-Oct-23	7.38	30	<2	58
07-Nov-23	7.44	36	<2	70
22-Nov-23	7.39	32	<2	79
07-Dec-23	8.08	28	<2	32
21-Dec-23	7.36	28	<2	38
05-Jan-24	7.68	34	<2	94
23-Jan-24	7.91	42	<2	84
07-Feb-24	7.57	26	<2	34
22-Feb-24	7.76	38	<2	39
07-Mar-24	7.71	30	<2	70
28-Mar-24	7.63	36	<2	58

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

	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

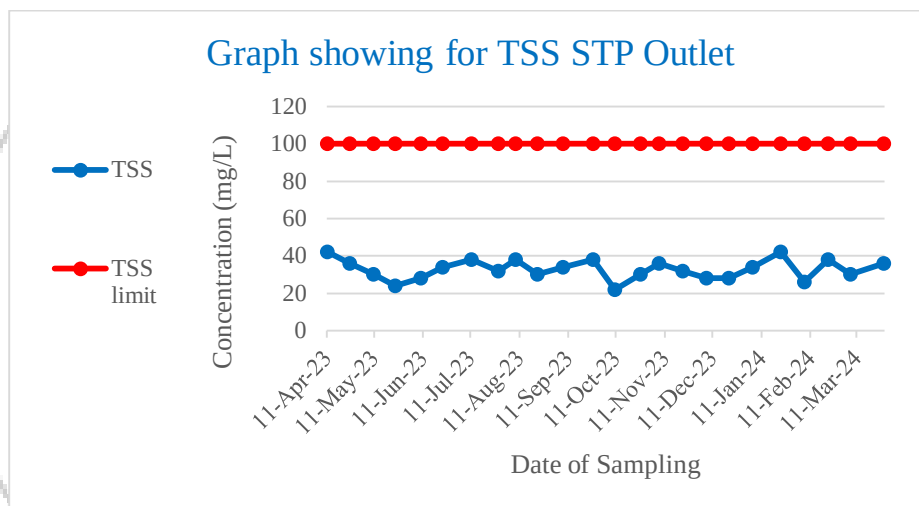
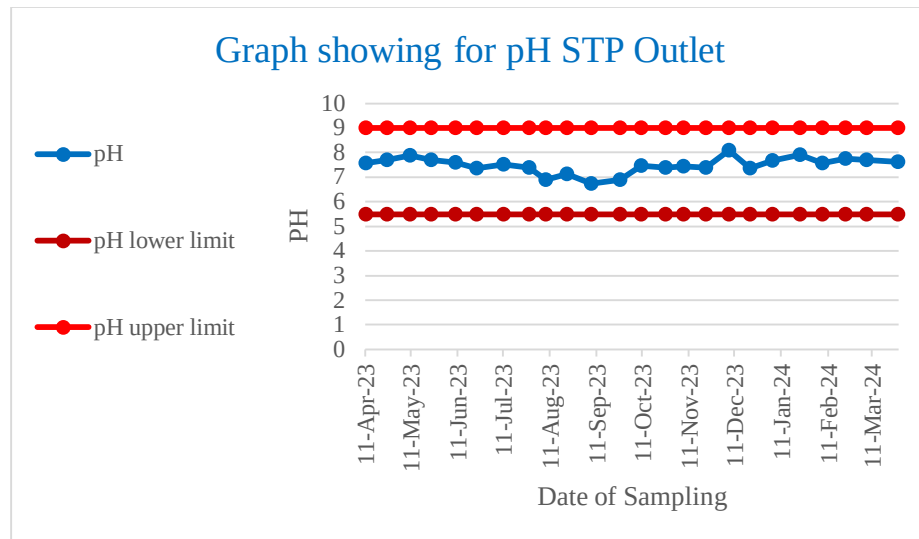


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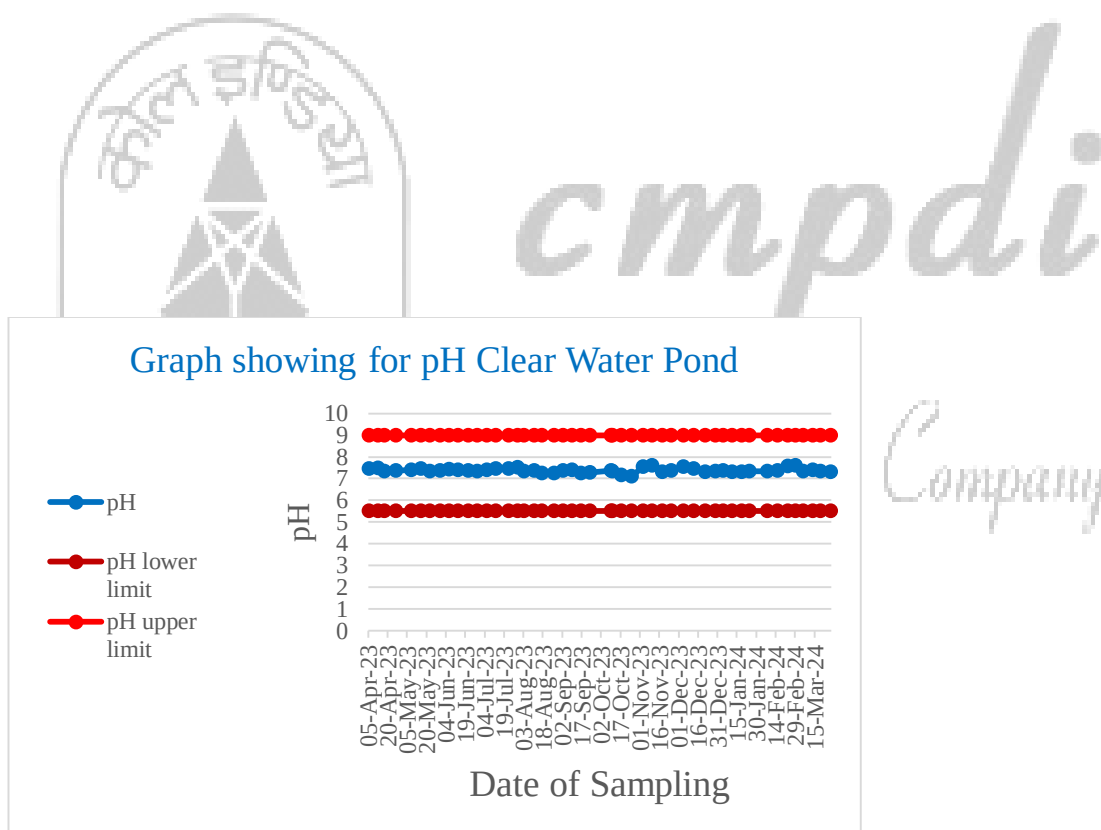
Area: Kaniha**Project** Kaniha OCP**Monitoring station:** Clear Water Pond

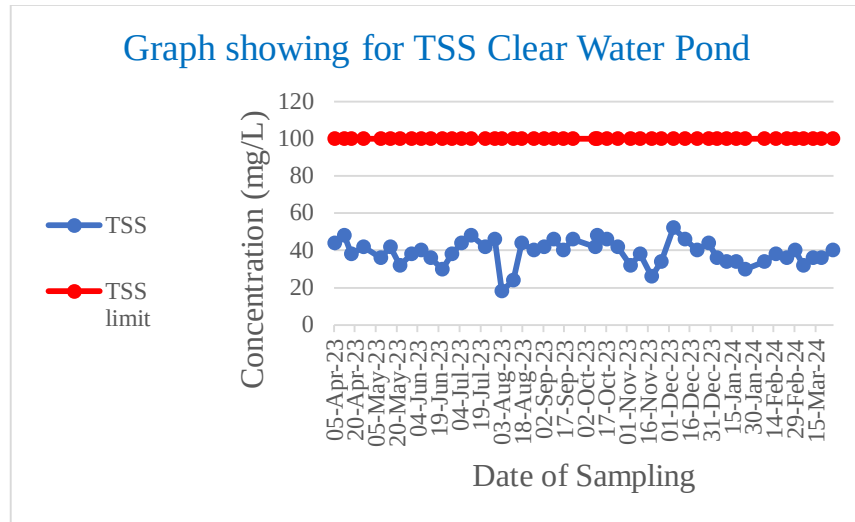
Date of Sampling	pH	Oil & Grease	TSS	COD
05-Apr-23	7.45	<4.0	44	36
12-Apr-23	7.48	<4.0	48	32
17-Apr-23	7.34	<4.0	38	44
26-Apr-23	7.37	<4.0	42	28
08-May-23	7.41	<4.0	36	44
15-May-23	7.46	<4.0	42	36
22-May-23	7.33	<4.0	32	36
30-May-23	7.36	<4.0	38	28
06-Jun-23	7.44	<4.0	40	32
13-Jun-23	7.4	<4.0	36	28
21-Jun-23	7.37	<4.0	30	24
28-Jun-23	7.33	<4.0	38	32
05-Jul-23	7.41	<4.0	44	24
12-Jul-23	7.45	<4.0	48	36
22-Jul-23	7.47	<4.0	42	32
29-Jul-23	7.5	<4.0	46	36
03-Aug-23	7.35	<4.0	18	12
11-Aug-23	7.37	<4.0	24	20
17-Aug-23	7.24	<4.0	44	28
26-Aug-23	7.26	<4.0	40	12
02-Sep-23	7.36	<4.0	42	36
09-Sep-23	7.39	<4.0	46	28
16-Sep-23	7.24	<4.0	40	32
23-Sep-23	7.28	<4.0	46	40
09-Oct-23	7.38	<4.0	42	28
10-Oct-23	7.35	<4.0	48	32
17-Oct-23	7.16	<4.0	46	20
25-Oct-23	7.1	<4.0	42	36
03-Nov-23	7.53	<4.0	32	24
10-Nov-23	7.59	<4.0	38	32
18-Nov-23	7.31	<4.0	26	20
25-Nov-23	7.36	<4.0	34	36
04-Dec-23	7.55	<4.0	52	36
12-Dec-23	7.47	<4.0	46	44
21-Dec-23	7.32	<4.0	40	32
29-Dec-23	7.35	<4.0	44	40
04-Jan-24	7.37	<4.0	36	24
11-Jan-24	7.32	<4.0	34	32
18-Jan-24	7.3	<4.0	34	32

24-Jan-24	7.34	<4.0	30	20
07-Feb-24	7.34	<4.0	34	36
15-Feb-24	7.38	<4.0	38	28
23-Feb-24	7.56	<4.0	36	24
29-Feb-24	7.59	<4.0	40	28
06-Mar-24	7.34	<4.0	32	20
13-Mar-24	7.39	<4.0	36	28
19-Mar-24	7.33	<4.0	36	32
27-Mar-24	7.3	<4.0	40	36

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

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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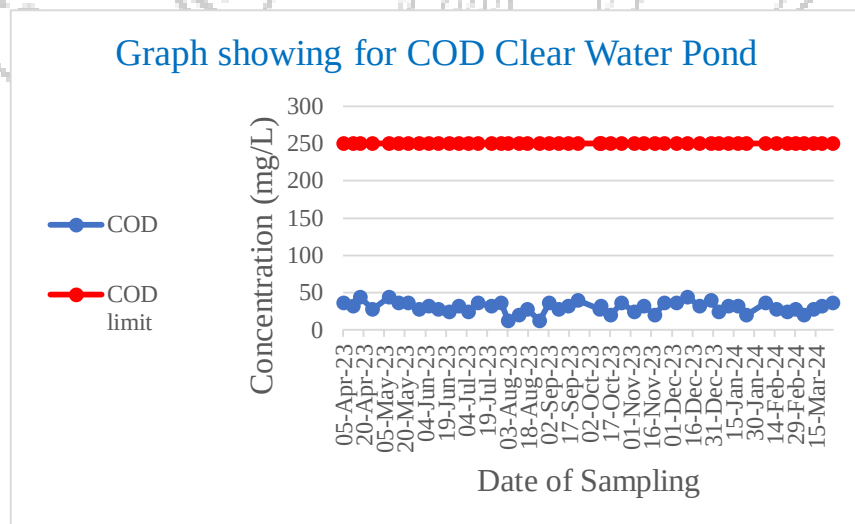


Table:9.33

Area: Kaniha**Project** Kaniha OCP**Monitoring station:** Kansamunda Sump

Date of Sampling	pH	Oil & Grease	TSS	COD
05-Apr-23	7.61	<4.0	54	40
12-Apr-23	7.66	<4.0	58	32
17-Apr-23	7.48	<4.0	48	32
26-Apr-23	7.44	<4.0	42	28
08-May-23	7.51	<4.0	40	32
15-May-23	7.48	<4.0	48	40
22-May-23	7.41	<4.0	44	24
30-May-23	7.46	<4.0	50	32
06-Jun-23	7.47	<4.0	46	40
13-Jun-23	7.43	<4.0	42	36
21-Jun-23	7.4	<4.0	36	44
28-Jun-23	7.42	<4.0	42	28
05-Jul-23	7.48	<4.0	46	32
12-Jul-23	7.53	<4.0	52	20
22-Jul-23	7.57	<4.0	52	20
29-Jul-23	7.59	<4.0	58	24
03-Aug-23	7.53	<4.0	20	8
11-Aug-23	7.58	<4.0	24	28
17-Aug-23	7.37	<4.0	48	16
26-Aug-23	7.4	<4.0	52	20
02-Sep-23	7.49	<4.0	44	40
09-Sep-23	7.45	<4.0	48	44
16-Sep-23	7.46	<4.0	34	28
23-Sep-23	7.5	<4.0	38	32
09-Oct-23	7.27	<4.0	46	36
10-Oct-23	7.3	<4.0	50	40
17-Oct-23	7.33	<4.0	34	28
25-Oct-23	7.39	<4.0	40	32
03-Nov-23	7.64	<4.0	40	20
10-Nov-23	7.68	<4.0	36	28
18-Nov-23	7.42	<4.0	38	16
25-Nov-23	7.46	<4.0	44	36
04-Dec-23	7.37	<4.0	58	48
12-Dec-23	7.35	<4.0	54	40
21-Dec-23	7.2	<4.0	48	36
29-Dec-23	7.27	<4.0	42	48
04-Jan-24	7.44	<4.0	38	40
11-Jan-24	7.4	<4.0	44	36

18-Jan-24	7.43	<4.0	36	24
24-Jan-24	7.49	<4.0	40	36
07-Feb-24	7.41	<4.0	40	36
15-Feb-24	7.46	<4.0	46	40
23-Feb-24	7.63	<4.0	48	36
29-Feb-24	7.66	<4.0	52	40
06-Mar-24	7.47	<4.0	46	36
13-Mar-24	7.43	<4.0	40	32
19-Mar-24	7.39	<4.0	44	40
27-Mar-24	7.46	<4.0	48	44



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

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

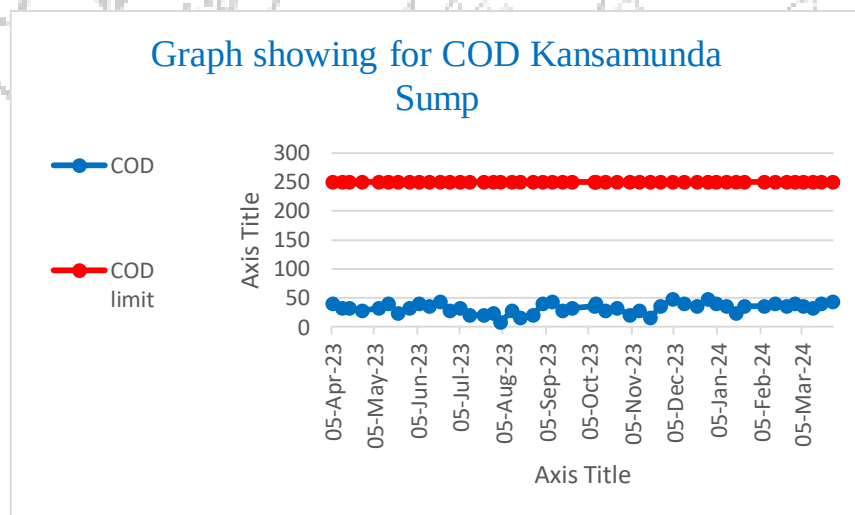
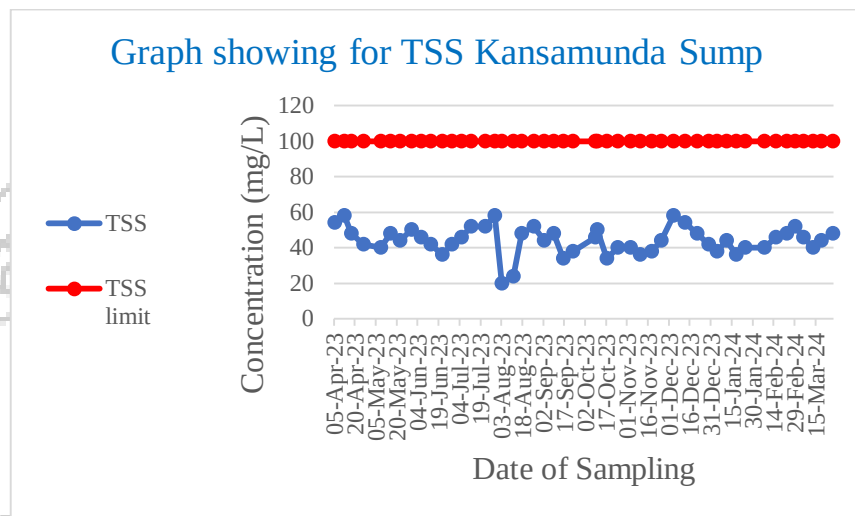
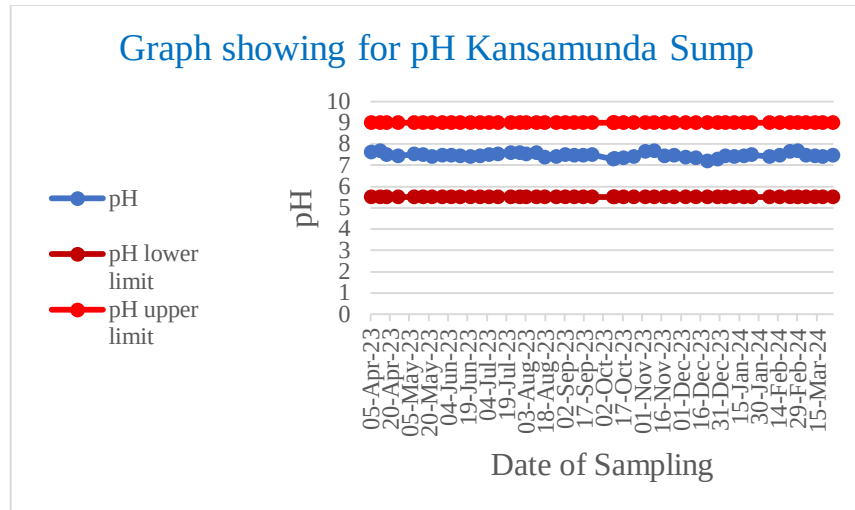


Table:9.34

Area: Kaniha**Project** Kaniha OCP**Monitoring station:** Pre Sedimentation Pond

Date of Sampling	pH	Oil & Grease	TSS	COD
05-Apr-23	7.33	<4.0	42	24
12-Apr-23	7.37	<4.0	38	40
17-Apr-23	7.21	<4.0	32	28
26-Apr-23	7.28	<4.0	28	36
08-May-23	7.36	<4.0	34	24
15-May-23	7.33	<4.0	38	36
22-May-23	7.21	<4.0	28	16
30-May-23	7.25	<4.0	34	24
06-Jun-23	7.36	<4.0	34	24
13-Jun-23	7.39	<4.0	38	32
21-Jun-23	7.26	<4.0	28	20
28-Jun-23	7.29	<4.0	34	36
05-Jul-23	7.31	<4.0	34	20
12-Jul-23	7.34	<4.0	38	24
22-Jul-23	7.45	<4.0	30	32
29-Jul-23	7.49	<4.0	36	28
03-Aug-23	7.4	<4.0	60	32
11-Aug-23	7.43	<4.0	64	40
17-Aug-23	7.18	<4.0	36	44
26-Aug-23	7.2	<4.0	32	24
02-Sep-23	7.27	<4.0	32	40
09-Sep-23	7.29	<4.0	36	32
16-Sep-23	7.16	<4.0	38	28
23-Sep-23	7.19	<4.0	44	20
09-Oct-23	7.49	<4.0	34	24
10-Oct-23	7.44	<4.0	38	32
17-Oct-23	7.33	<4.0	38	28
25-Oct-23	7.39	<4.0	32	40
03-Nov-23	7.62	<4.0	34	20
10-Nov-23	7.68	<4.0	30	16
18-Nov-23	7.28	<4.0	28	20
25-Nov-23	7.25	<4.0	32	24
04-Dec-23	8.11	<4.0	48	28
12-Dec-23	8.1	<4.0	46	32
21-Dec-23	7.35	<4.0	54	36
29-Dec-23	7.29	<4.0	58	40
04-Jan-24	7.38	<4.0	30	36
11-Jan-24	7.35	<4.0	34	32

18-Jan-24	7.45	<4.0	24	12
24-Jan-24	7.49	<4.0	32	28
07-Feb-24	7.27	<4.0	26	20
15-Feb-24	7.29	<4.0	28	32
23-Feb-24	7.43	<4.0	44	32
29-Feb-24	7.48	<4.0	48	36
06-Mar-24	7.3	<4.0	34	36
13-Mar-24	7.35	<4.0	38	40
19-Mar-24	7.25	<4.0	28	20
27-Mar-24	7.29	<4.0	34	28

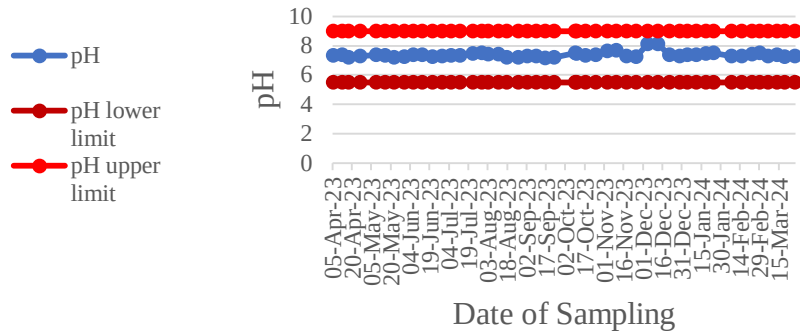


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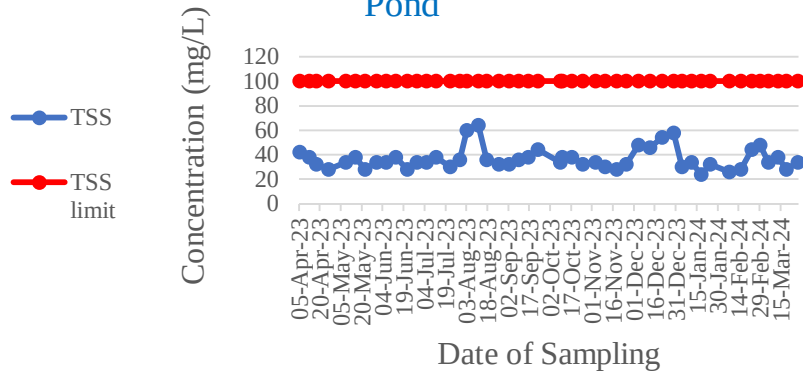
All values are in mg/l except pH & FC (MPN/100 m L)

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 Pre Sedimentation Pond



Graph showing for TSS Pre Sedimentation Pond



Graph showing for COD Pre Sedimentation Pond

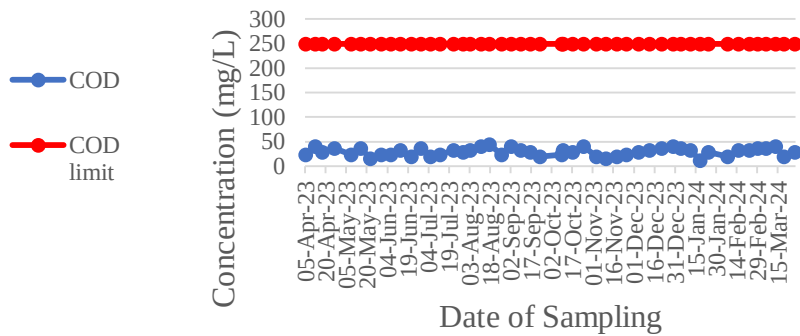


Table:9.35

Area: Kaniha**Project** Kaniha OCP**Monitoring station:** Z-Patch Sump

Date of Sampling	pH	Oil & Grease	TSS	COD
05-Apr-23	7.7	<4.0	56	44
12-Apr-23	7.73	<4.0	62	36
17-Apr-23	7.57	<4.0	54	48
26-Apr-23	7.52	<4.0	58	52
08-May-23	7.57	<4.0	46	32
15-May-23	7.63	<4.0	52	44
22-May-23	7.5	<4.0	48	40
30-May-23	7.54	<4.0	54	36
06-Jun-23	7.54	<4.0	44	32
13-Jun-23	7.5	<4.0	50	40
21-Jun-23	7.41	<4.0	48	24
28-Jun-23	7.46	<4.0	54	36
05-Jul-23	7.61	<4.0	58	44
12-Jul-23	7.67	<4.0	64	32
22-Jul-23	7.65	<4.0	62	44
29-Jul-23	7.69	<4.0	68	36
03-Aug-23	7.56	<4.0	18	20
11-Aug-23	7.59	<4.0	22	24
17-Aug-23	7.52	<4.0	60	24
26-Aug-23	7.59	<4.0	54	20
02-Sep-23	7.52	<4.0	54	36
09-Sep-23	7.55	<4.0	50	32
16-Sep-23	7.44	<4.0	40	44
23-Sep-23	7.48	<4.0	46	36
09-Oct-23	7.51	<4.0	24	16
10-Oct-23	7.58	<4.0	28	12
17-Oct-23	7.7	<4.0	28	20
25-Oct-23	7.74	<4.0	32	16
03-Nov-23	7.71	<4.0	38	32
10-Nov-23	7.75	<4.0	42	40
18-Nov-23	7.53	<4.0	42	24
25-Nov-23	7.58	<4.0	48	32
04-Dec-23	6.7	<4.0	64	44
12-Dec-23	6.72	<4.0	60	36
21-Dec-23	6.62	<4.0	40	32
29-Dec-23	6.69	<4.0	48	40
04-Jan-24	7.43	<4.0	40	28
11-Jan-24	7.48	<4.0	48	32

18-Jan-24	7.54	<4.0	44	40
24-Jan-24	7.57	<4.0	48	44
07-Feb-24	7.43	<4.0	42	36
15-Feb-24	7.48	<4.0	48	44
23-Feb-24	7.61	<4.0	56	48
29-Feb-24	7.68	<4.0	54	44
06-Mar-24	7.56	<4.0	44	40
13-Mar-24	7.51	<4.0	48	44
19-Mar-24	7.61	<4.0	56	48
27-Mar-24	7.58	<4.0	52	32

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

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

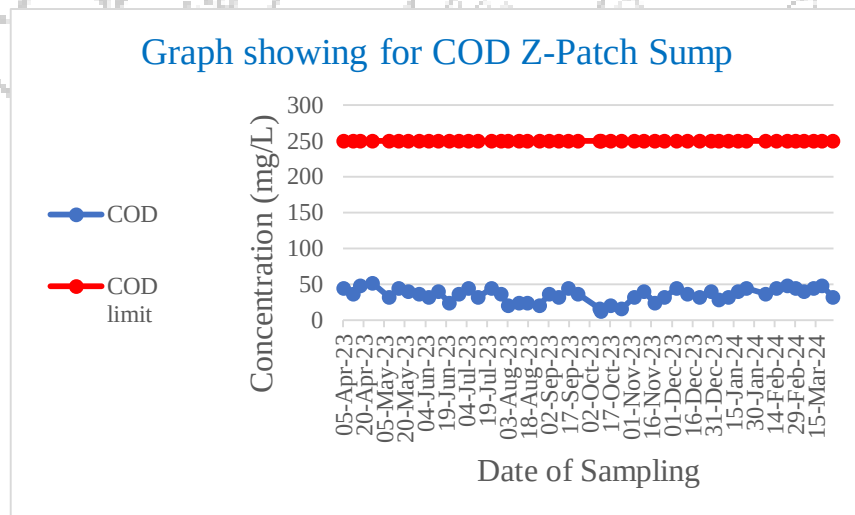
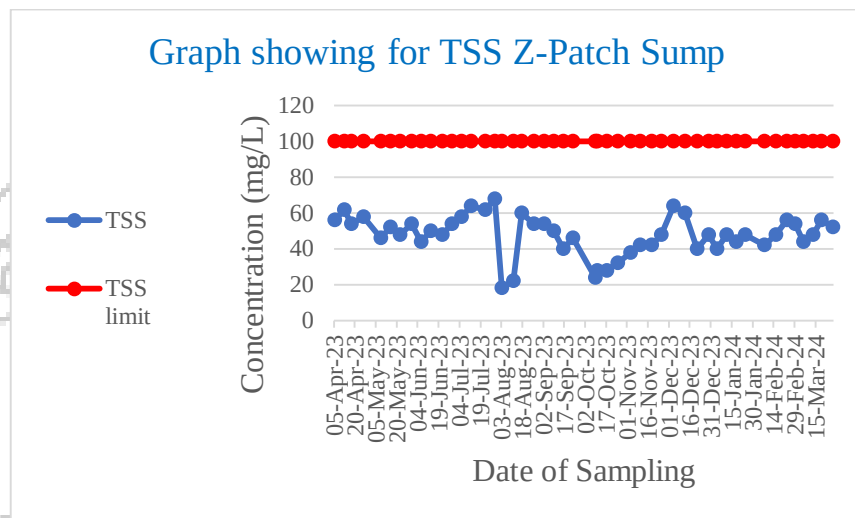
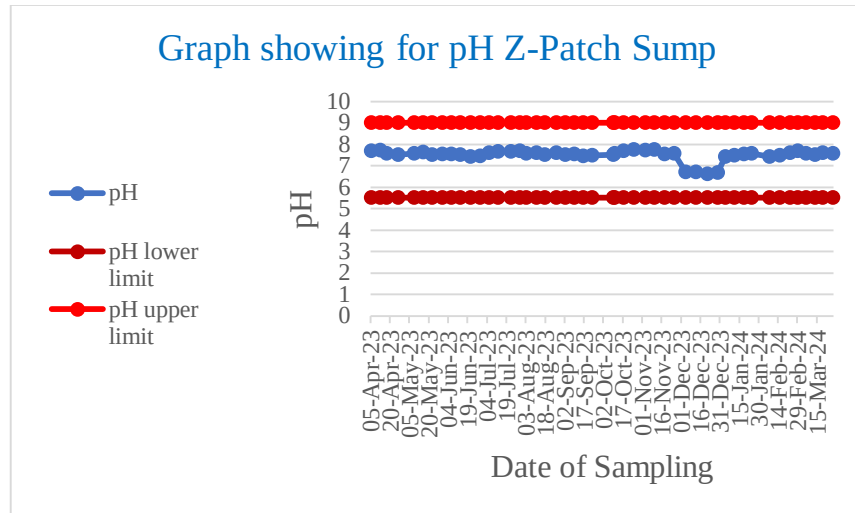


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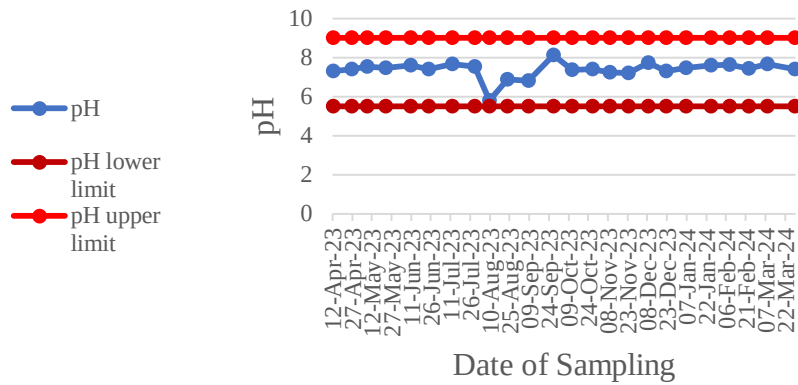
Area: Hingula**Project:** Hingula OCP**Monitoring station:** Inlet of O & G trap

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.29	<4.0	56	36
26-Apr-23	7.4	<4.0	64	24
08-May-23	7.53	<4.0	58	40
22-May-23	7.47	<4.0	50	28
10-Jun-23	7.61	<4.0	46	36
24-Jun-23	7.41	<4.0	52	48
12-Jul-23	7.65	<4.0	62	36
29-Jul-23	7.54	<4.0	56	32
09-Aug-23	5.81	<4.0	46	40
23-Aug-23	6.89	<4.0	56	32
08-Sep-23	6.8	<4.0	48	48
27-Sep-23	8.12	<4.0	56	40
11-Oct-23	7.37	<4.0	52	28
27-Oct-23	7.41	<4.0	46	32
09-Nov-23	7.25	<4.0	46	32
23-Nov-23	7.19	<4.0	40	36
08-Dec-23	7.73	<4.0	34	24
22-Dec-23	7.3	<4.0	36	32
06-Jan-24	7.46	<4.0	58	48
25-Jan-24	7.61	<4.0	64	48
08-Feb-24	7.62	<4.0	54	40
23-Feb-24	7.43	<4.0	48	36
08-Mar-24	7.66	<4.0	54	52
29-Mar-24	7.41	<4.0	64	40

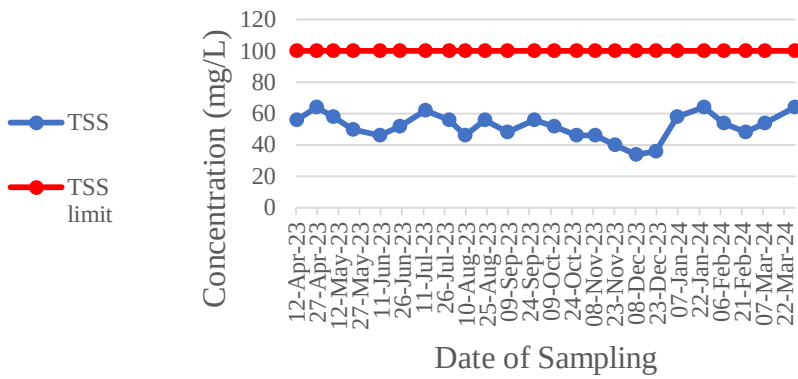
All values are in mg/l except pH & FC (MPN/100 m L)

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 Inlet of O & G Trap



Graph showing for TSS Inlet of O & G Trap



Graph showing for COD Inlet of O & G Trap

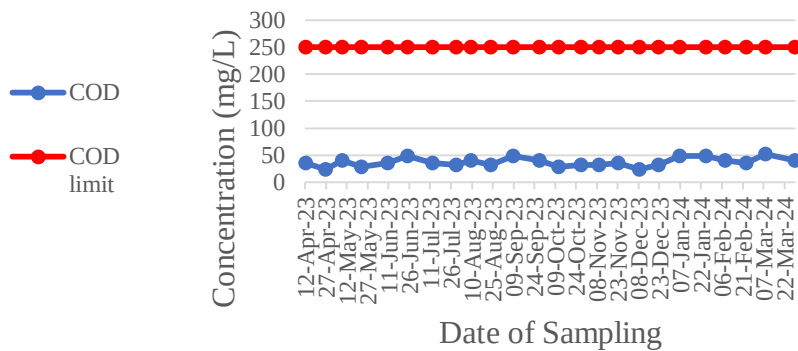


Table:9.37

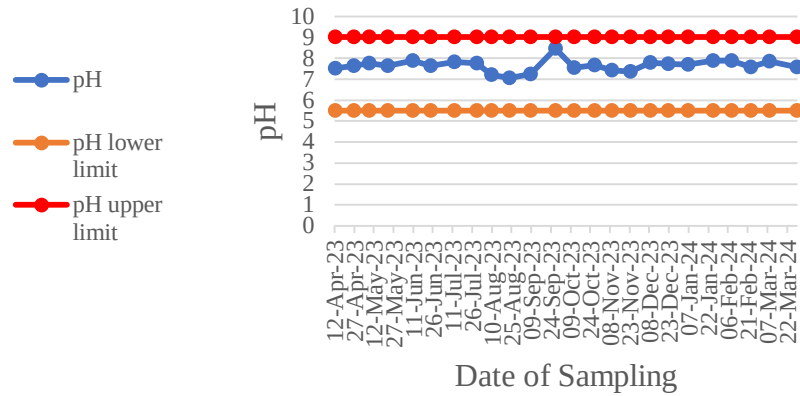
Area: Hingula**Project:** Hingula OCP**Monitoring station:** Outlet of O & G trap

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.51	<4.0	38	32
26-Apr-23	7.65	<4.0	44	16
08-May-23	7.76	<4.0	38	32
22-May-23	7.65	<4.0	32	20
10-Jun-23	7.87	<4.0	32	28
24-Jun-23	7.63	<4.0	38	32
12-Jul-23	7.83	<4.0	44	24
29-Jul-23	7.76	<4.0	38	24
09-Aug-23	7.21	<4.0	38	24
23-Aug-23	7.06	<4.0	40	20
08-Sep-23	7.24	<4.0	36	40
27-Sep-23	8.45	<4.0	38	24
11-Oct-23	7.54	<4.0	40	20
27-Oct-23	7.68	<4.0	40	28
09-Nov-23	7.43	<4.0	38	28
23-Nov-23	7.37	<4.0	28	24
08-Dec-23	7.78	<4.0	28	20
22-Dec-23	7.73	<4.0	30	28
06-Jan-24	7.69	<4.0	40	44
25-Jan-24	7.89	<4.0	42	32
08-Feb-24	7.89	<4.0	40	32
23-Feb-24	7.58	<4.0	40	20
08-Mar-24	7.84	<4.0	40	32
29-Mar-24	7.59	<4.0	36	28

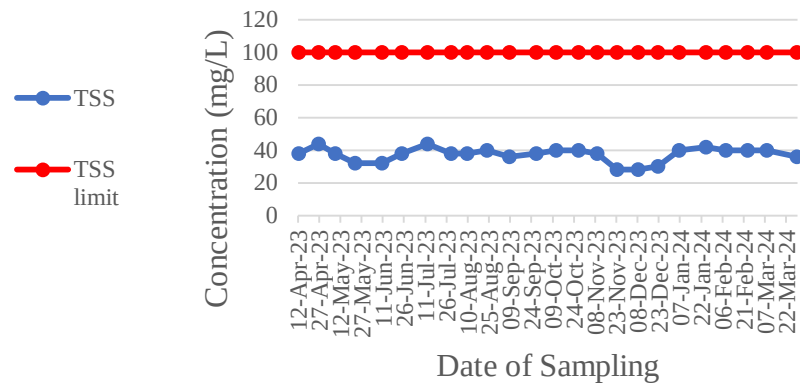
All values are in mg/l except pH & FC (MPN/100 m L)

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 Outlet of O & G Trap



Graph showing for TSS Outlet of O & G Trap



Graph showing for COD Outlet of O & G Trap

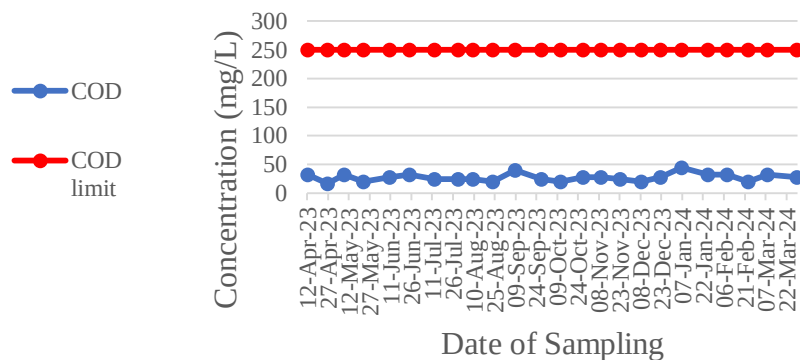


Table:9.38

Area: Hingula**Project** Hingula OCP**Monitoring station:** Mine sump water

Date of Sampling	pH	Oil & Grease	TSS	COD
08-May-23	7.6	<4.0	32	28
09-Aug-23	5.87	<4.0	30	32
09-Nov-23	7.3	<4.0	24	20
08-Feb-24	7.56	<4.0	32	36

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

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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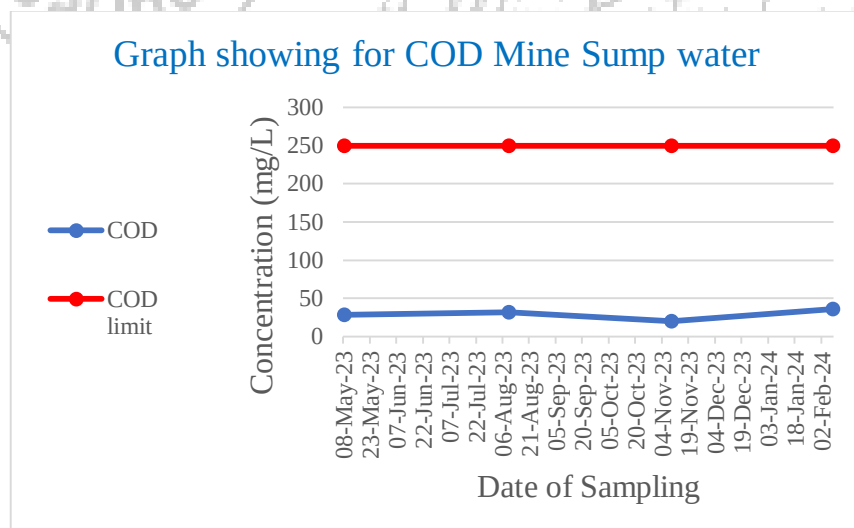
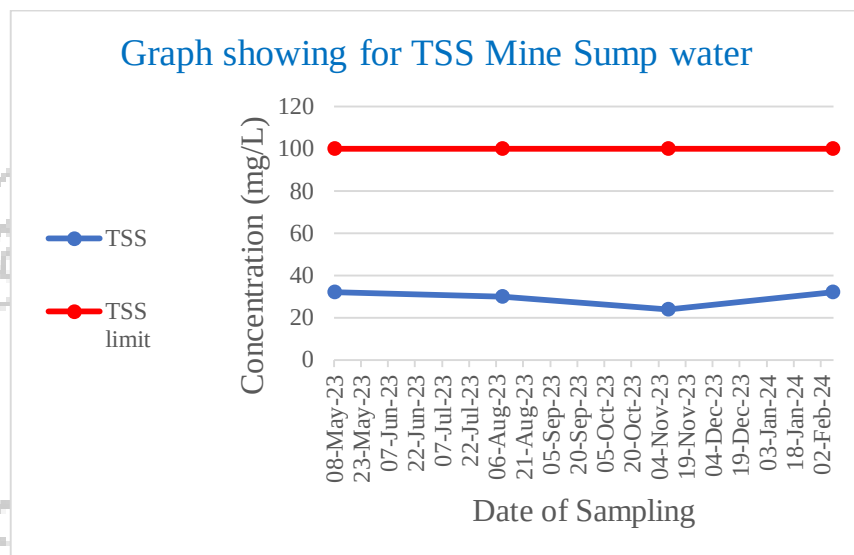
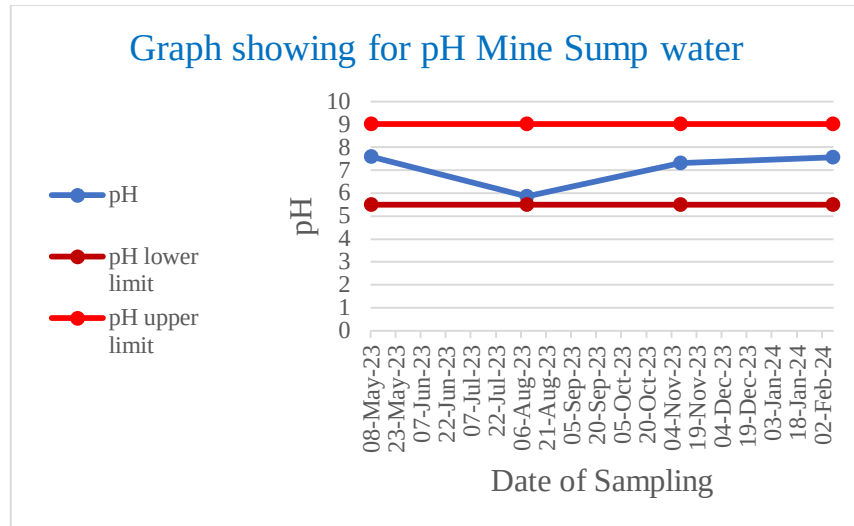


Table:9.39

Area: Hingula**Project** Balram OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
08-May-23	7.52	<4.0	28	12
09-Aug-23	5.89	<4.0	24	32
09-Nov-23	7.06	<4.0	28	16
08-Feb-24	7.69	<4.0	34	28

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

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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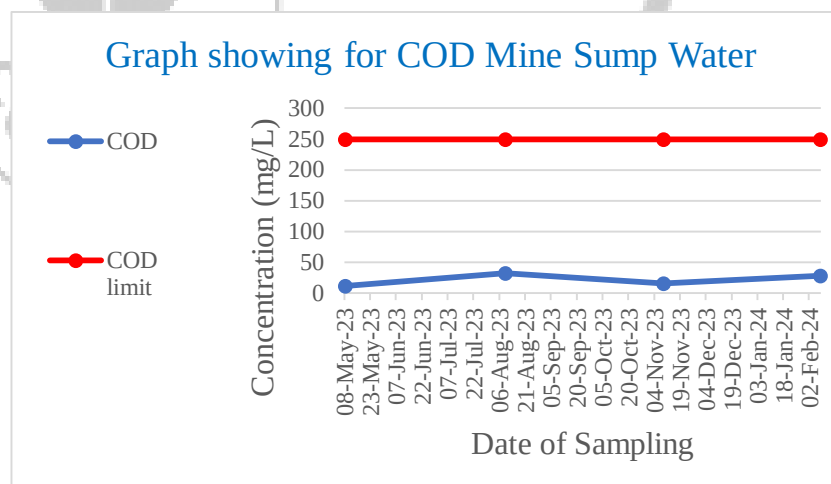
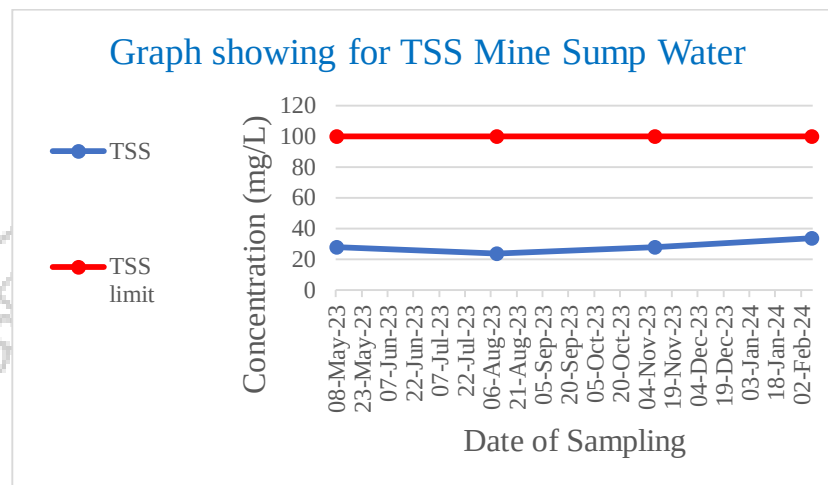
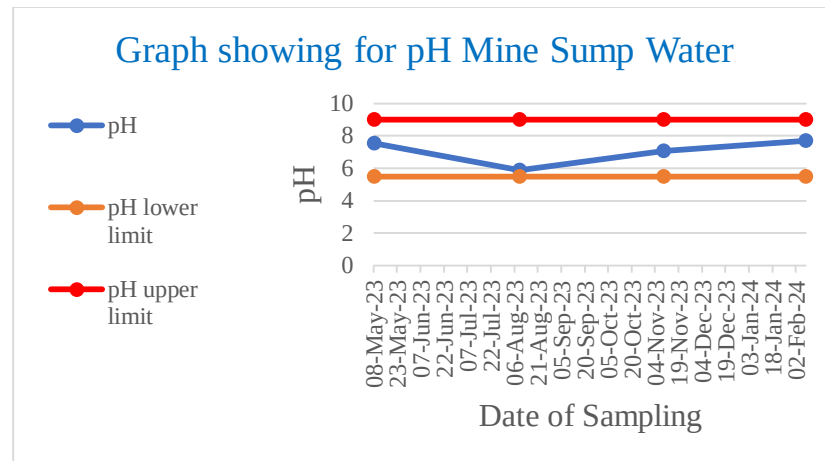


Table:9.40

Area: Hingula**Project:** Balram OCP**Monitoring station:** Inlet of O & G Trap

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.63	<4.0	50	40
26-Apr-23	7.68	<4.0	56	44
08-May-23	7.41	<4.0	52	44
22-May-23	7.49	<4.0	58	32
10-Jun-23	7.59	<4.0	50	40
24-Jun-23	7.69	<4.0	56	36
12-Jul-23	7.74	<4.0	68	44
29-Jul-23	7.59	<4.0	60	28
09-Aug-23	7.04	<4.0	36	40
23-Aug-23	7.18	<4.0	46	40
08-Sep-23	7.11	<4.0	42	20
27-Sep-23	7.15	<4.0	64	44
11-Oct-23	7.15	<4.0	58	32
27-Oct-23	7.58	<4.0	36	40
09-Nov-23	7.13	<4.0	44	40
23-Nov-23	7.26	<4.0	38	28
08-Dec-23	7.6	<4.0	42	32
22-Dec-23	7.26	<4.0	34	28
06-Jan-24	7.57	<4.0	52	40
25-Jan-24	7.7	<4.0	56	40
08-Feb-24	7.71	<4.0	58	32
23-Feb-24	7.39	<4.0	52	40
08-Mar-24	7.51	<4.0	58	36
29-Mar-24	7.53	<4.0	74	48

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

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

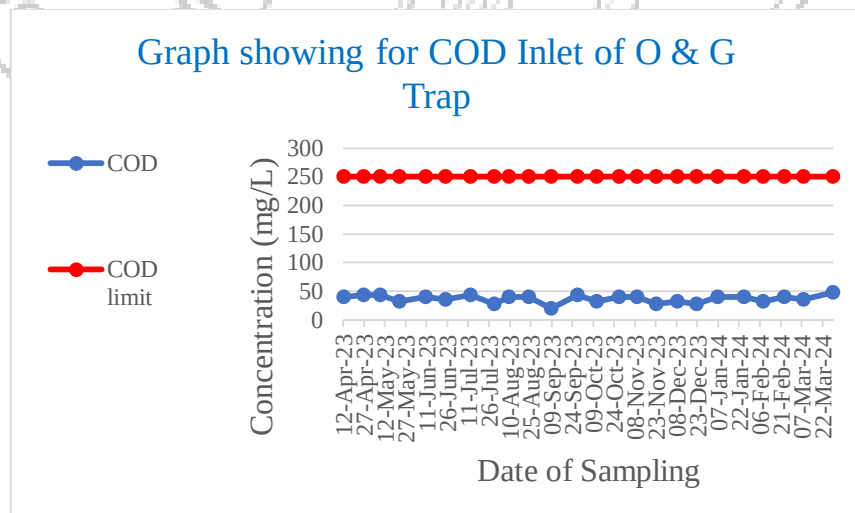
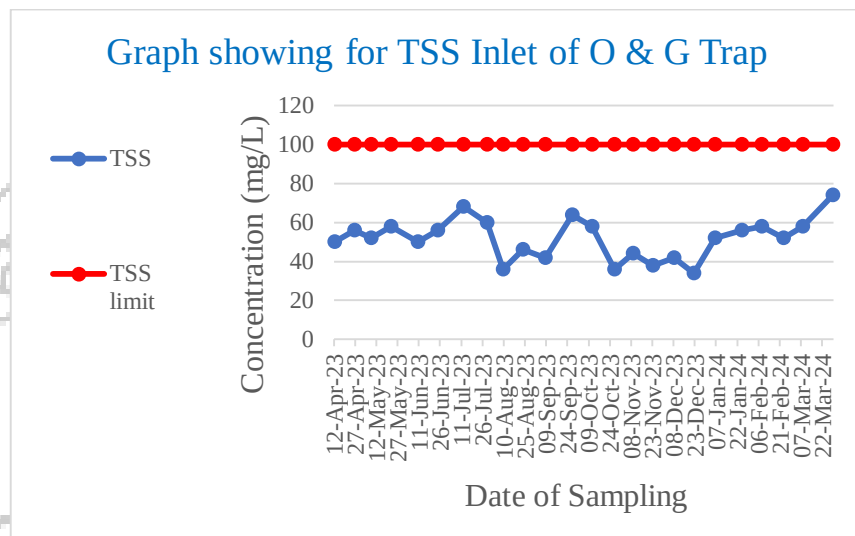
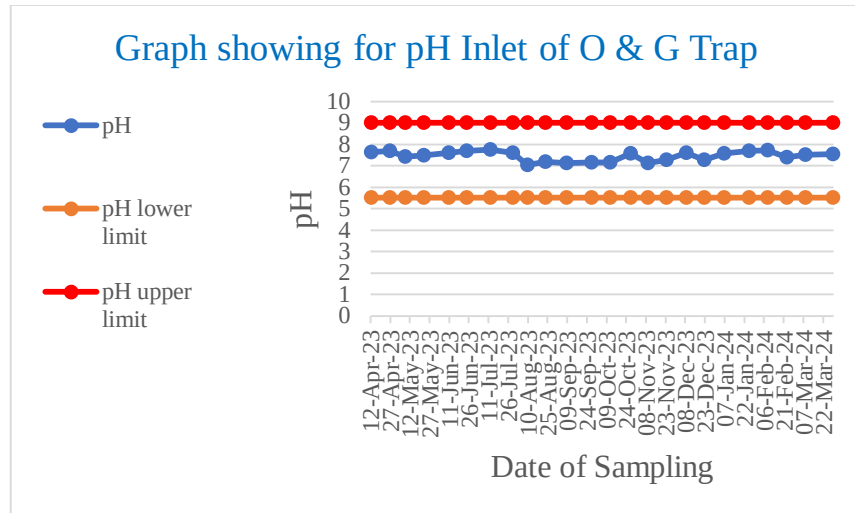


Table:9.41

Area: Hingula**Project:** Balram OCP**Monitoring station:** Outlet of O & G Trap

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-23	7.84	<4.0	32	36
26-Apr-23	7.91	<4.0	38	32
08-May-23	7.66	<4.0	34	32
22-May-23	7.71	<4.0	40	20
10-Jun-23	7.73	<4.0	36	24
24-Jun-23	7.85	<4.0	36	28
12-Jul-23	7.91	<4.0	46	36
29-Jul-23	7.81	<4.0	42	24
09-Aug-23	7.24	<4.0	28	28
23-Aug-23	7.3	<4.0	34	28
08-Sep-23	7.28	<4.0	30	12
27-Sep-23	7.31	<4.0	42	32
11-Oct-23	7.29	<4.0	36	24
27-Oct-23	7.91	<4.0	28	32
09-Nov-23	7.47	<4.0	36	32
23-Nov-23	7.53	<4.0	26	20
08-Dec-23	7.71	<4.0	30	24
22-Dec-23	7.63	<4.0	28	20
06-Jan-24	7.77	<4.0	36	32
25-Jan-24	7.96	<4.0	40	36
08-Feb-24	7.93	<4.0	44	32
23-Feb-24	7.51	<4.0	38	32
08-Mar-24	7.74	<4.0	36	28
29-Mar-24	7.89	<4.0	44	40

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

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

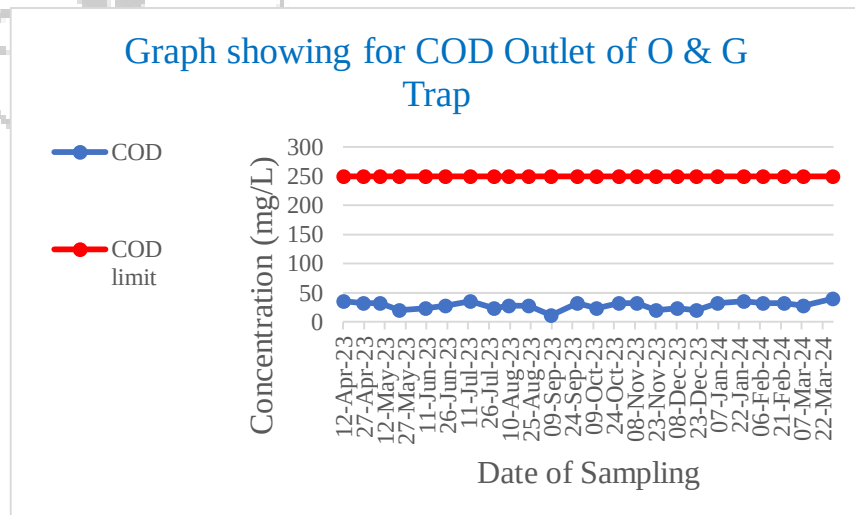
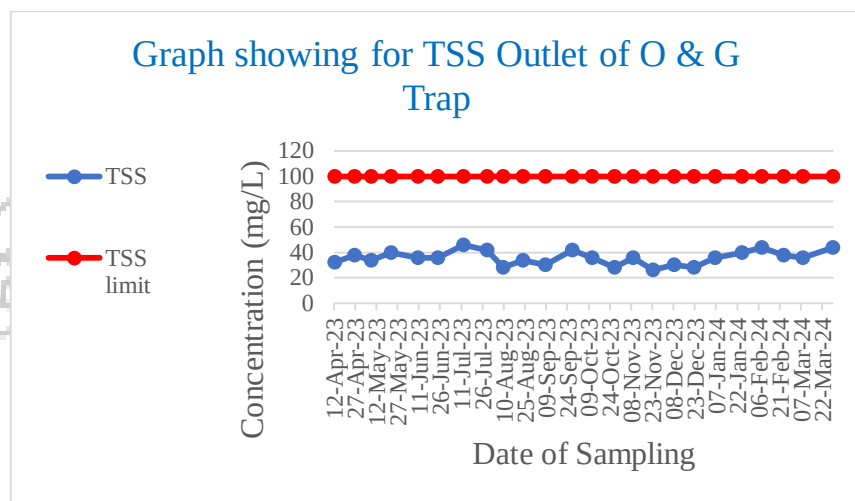
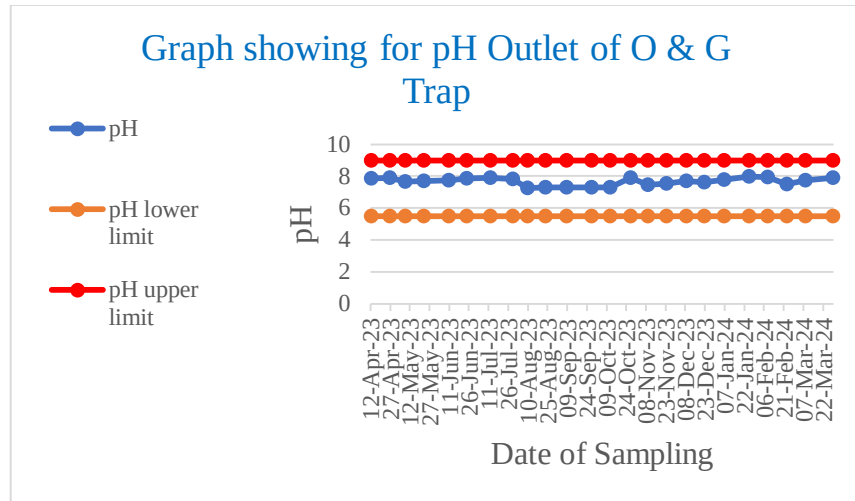


Table:9.42

Area: Hingula**Project:** Balram OCP**Monitoring station:** STP Outlet of Balram Colony

Date of Sampling	pH	TSS	BOD	MPN/100mL
12-Apr-23	7.62	36	<2	1.1
26-Apr-23	7.75	42	<2	1.1
08-May-23	7.59	36	<2	1.8 MPN/100 Ml
22-May-23	7.46	32	<2	3.5 MPN/100 mL
10-Jun-23	7.69	26	<2	20
24-Jun-23	7.48	30	<2	17
12-Jul-23	7.79	34	<2	25
29-Jul-23	7.55	38	<2	26
09-Aug-23	7.73	42	<2	34
23-Aug-23	7.18	36	<2	33
08-Sep-23	7.29	32	<2	41
27-Sep-23	8.13	38	<2	39
11-Oct-23	7.51	30	<2	43
27-Oct-23	8.06	26	<2	46
09-Nov-23	7.24	32	<2	94
23-Nov-23	7.29	36	<2	70
08-Dec-23	7.77	34	<2	52
22-Dec-23	7.63	34	<2	49
06-Jan-24	7.38	28	<2	49
25-Jan-24	7.47	34	<2	70
08-Feb-24	7.81	32	<2	43
23-Feb-24	7.86	30	<2	32
08-Mar-24	7.94	32	<2	43
29-Mar-24	7.65	38	<2	46

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

	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

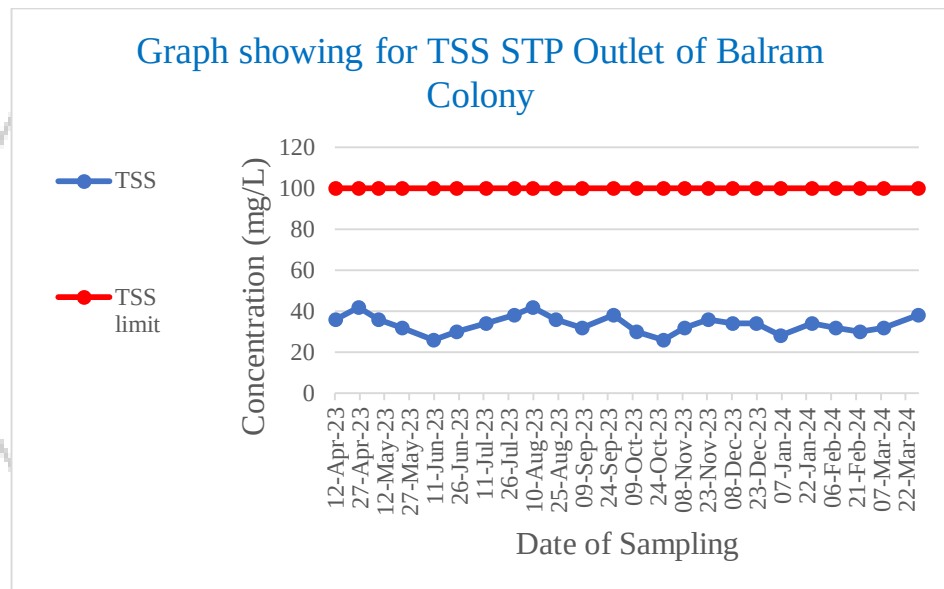
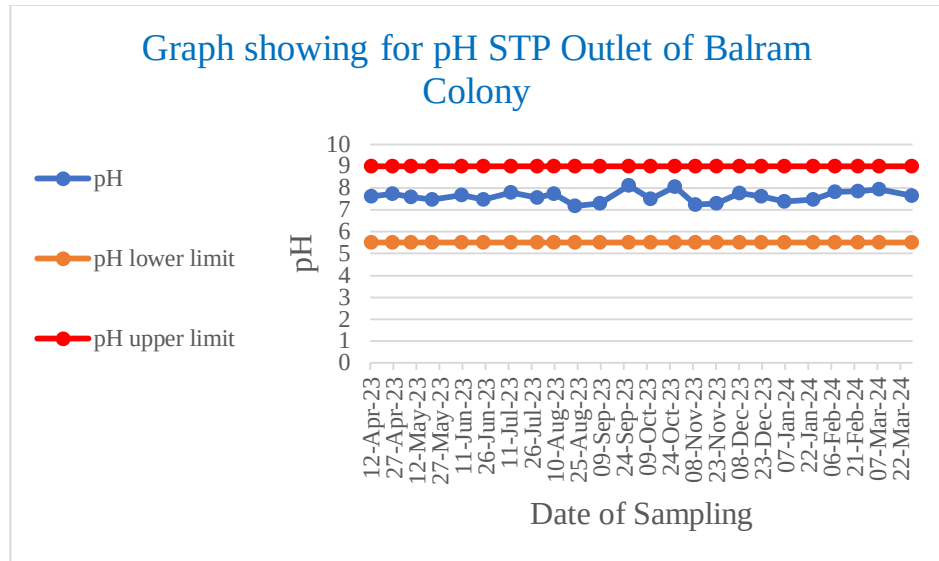


Table:9.43

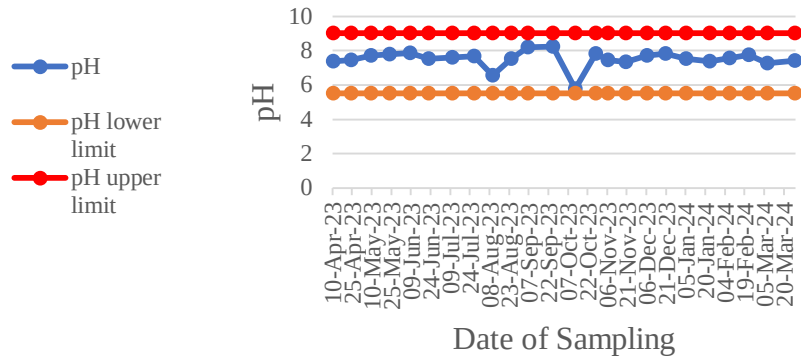
Area: Talcher**Project:** Talcher Colliery**Monitoring station:** Talcher Colliery Sedimentation Tank
Discharge

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.37	<4.0	34	36
24-Apr-23	7.44	<4.0	28	32
09-May-23	7.71	<4.0	24	20
23-May-23	7.79	<4.0	30	12
08-Jun-23	7.86	<4.0	36	28
22-Jun-23	7.53	<4.0	38	20
10-Jul-23	7.59	<4.0	46	28
27-Jul-23	7.66	<4.0	52	36
10-Aug-23	6.55	4.2	74	44
24-Aug-23	7.54	<4.0	64	48
06-Sep-23	8.21	<4.0	52	36
25-Sep-23	8.24	<4.0	44	40
12-Oct-23	5.79	<4.0	66	40
28-Oct-23	7.84	<4.0	22	28
06-Nov-23	7.45	<4.0	40	32
20-Nov-23	7.33	<4.0	34	24
06-Dec-23	7.71	<4.0	68	40
20-Dec-23	7.82	<4.0	46	44
05-Jan-24	7.52	<4.0	48	32
23-Jan-24	7.39	<4.0	32	20
07-Feb-24	7.55	<4.0	44	36
22-Feb-24	7.76	<4.0	28	20
07-Mar-24	7.27	<4.0	28	12
28-Mar-24	7.42	<4.0	22	12

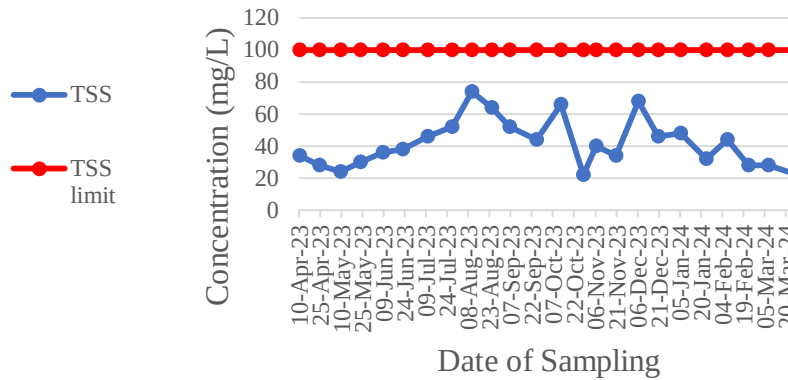
All values are in mg/l except pH & FC (MPN/100 m L)

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 Talcher Colliery
Sedimentation Tank Discharge



Graph showing for TSS Talcher Colliery
Sedimentation Tank Discharge



Graph showing for COD Talcher Colliery
Sedimentation Tank Discharge

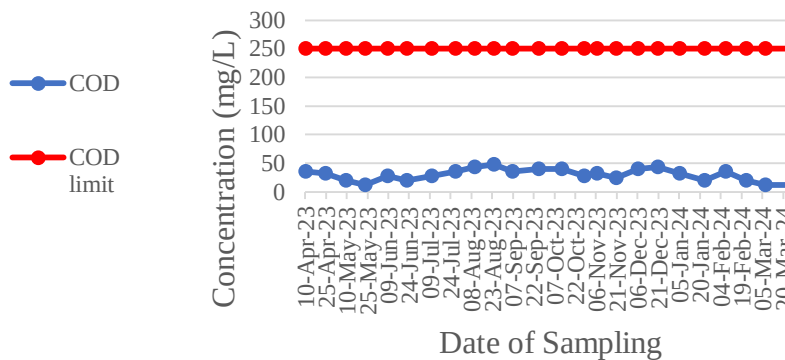


Table:9.44

Area: Talcher**Project:** Nandira Colliery**Monitoring station:** Nandira Colliery Sedimentation Tank Discharge

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.5	<4.0	38	24
24-Apr-23	7.61	<4.0	44	28
09-May-23	7.63	<4.0	34	40
23-May-23	7.59	<4.0	42	44
08-Jun-23	7.67	<4.0	48	36
22-Jun-23	7.42	<4.0	32	32
10-Jul-23	7.61	<4.0	42	32
27-Jul-23	7.73	<4.0	46	44
10-Aug-23	7.92	<4.0	58	36
24-Aug-23	7.75	<4.0	66	20
06-Sep-23	8.29	<4.0	46	32
25-Sep-23	7.85	<4.0	36	32
12-Oct-23	7.24	<4.0	28	32
28-Oct-23	7.52	<4.0	26	36
06-Nov-23	7.49	<4.0	46	36
20-Nov-23	7.61	<4.0	40	32
06-Dec-23	7.55	<4.0	58	32
20-Dec-23	7.61	<4.0	58	48
05-Jan-24	7.26	<4.0	48	36
23-Jan-24	7.53	<4.0	44	32
07-Feb-24	7.49	<4.0	40	24
22-Feb-24	7.59	<4.0	24	12
07-Mar-24	7.39	<4.0	34	28
28-Mar-24	7.26	<4.0	36	16

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

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

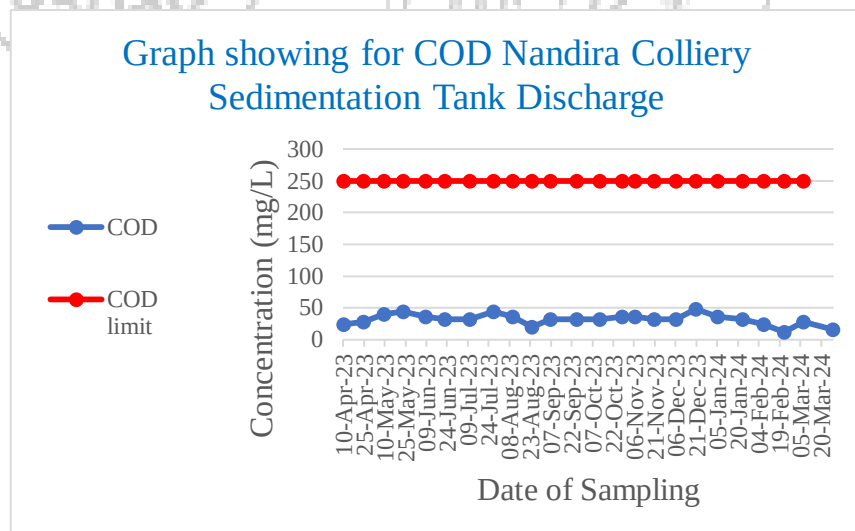
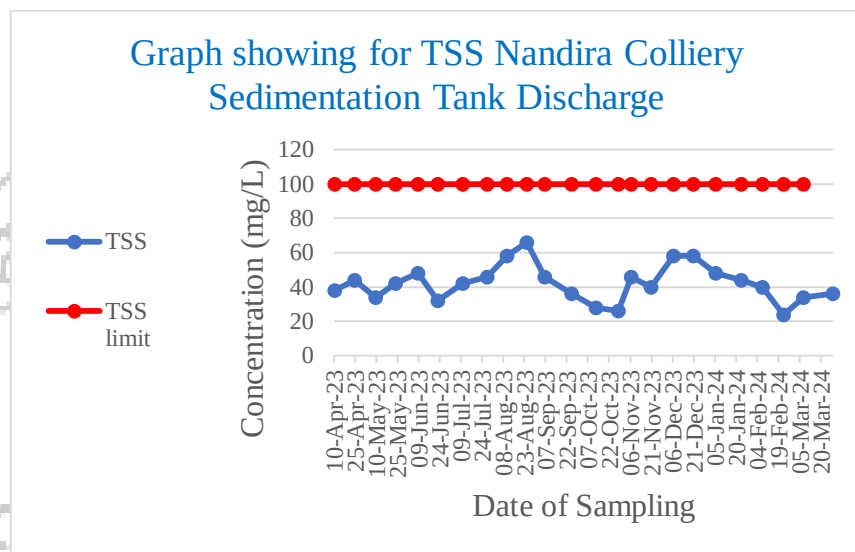
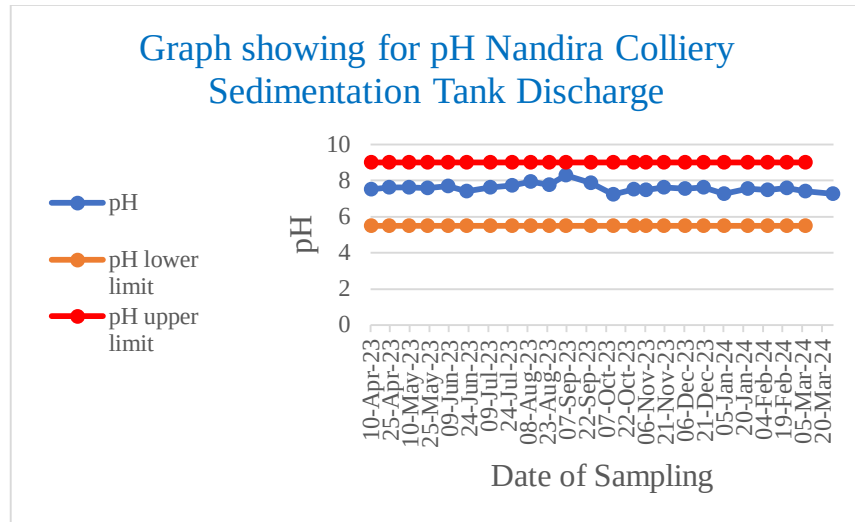


Table:9.45

Area: Talcher**Project:** Deulbera Colliery**Monitoring station:** Deulbera Colliery Mine Discharge at Pit Top

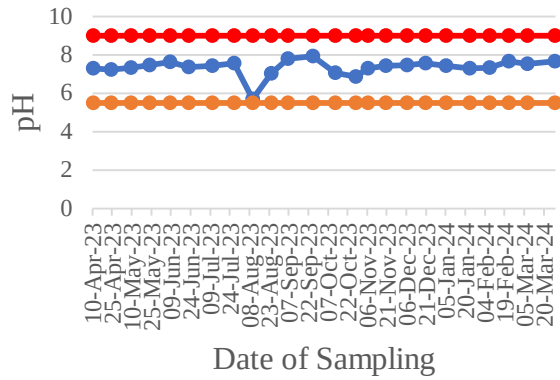
Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.29	<4.0	28	20
24-Apr-23	7.21	<4.0	34	20
09-May-23	7.33	<4.0	40	32
23-May-23	7.46	<4.0	34	24
08-Jun-23	7.61	<4.0	38	32
22-Jun-23	7.37	<4.0	40	36
10-Jul-23	7.43	<4.0	48	40
27-Jul-23	7.55	<4.0	42	36
10-Aug-23	5.7	<4.0	32	24
24-Aug-23	7.03	<4.0	38	12
06-Sep-23	7.79	<4.0	36	24
25-Sep-23	7.93	<4.0	42	28
12-Oct-23	7.06	<4.0	32	36
28-Oct-23	6.87	<4.0	30	24
06-Nov-23	7.28	<4.0	54	40
20-Nov-23	7.41	<4.0	42	28
06-Dec-23	7.47	<4.0	54	36
20-Dec-23	7.56	<4.0	40	32
05-Jan-24	7.41	<4.0	36	28
23-Jan-24	7.3	<4.0	30	24
07-Feb-24	7.33	<4.0	28	32
22-Feb-24	7.66	<4.0	32	24
07-Mar-24	7.52	<4.0	24	20
28-Mar-24	7.65	<4.0	32	20

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

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

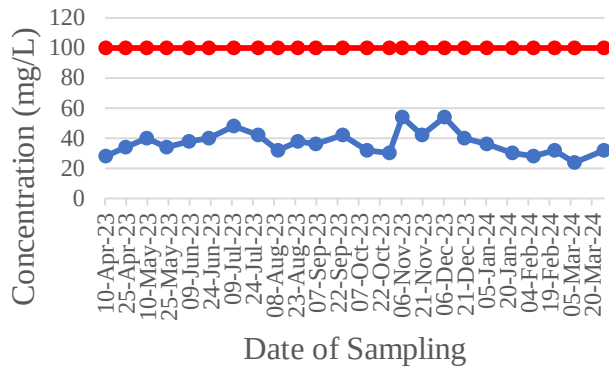
Graph showing for pH Outlet Deulbera Colliery Mine Discharge at Pit Top

—●— pH
—●— pH lower limit
—●— pH upper limit



Graph showing for TSS Outlet Deulbera Colliery Mine Discharge at Pit Top

—●— TSS
—●— TSS limit



Graph showing for COD Outlet Deulbera Colliery Mine Discharge at Pit Top

—●— COD
—●— COD limit

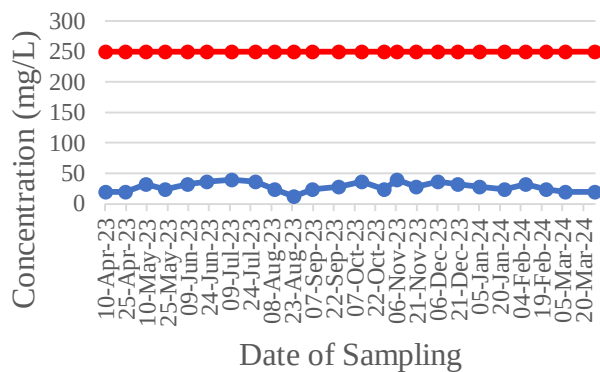


Table:9.46

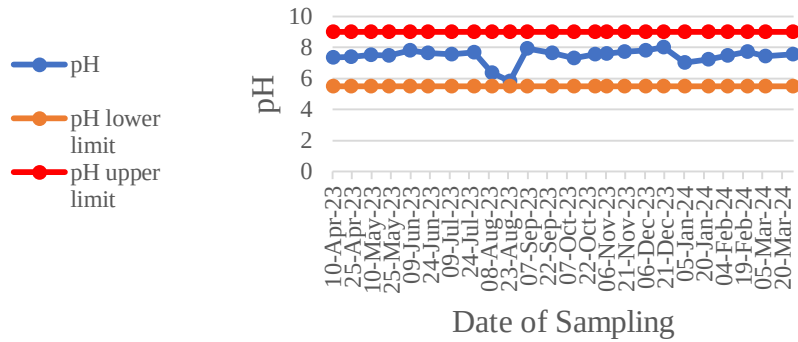
Area: Talcher**Project:** Deulbera Colliery**Monitoring station:** Ranipark Submersible Pump

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.34	<4.0	24	16
24-Apr-23	7.41	<4.0	30	24
09-May-23	7.53	<4.0	38	44
23-May-23	7.46	<4.0	34	24
08-Jun-23	7.79	<4.0	34	28
22-Jun-23	7.62	<4.0	26	40
10-Jul-23	7.57	<4.0	36	32
27-Jul-23	7.69	<4.0	34	40
10-Aug-23	6.36	<4.0	38	20
24-Aug-23	5.82	<4.0	46	28
06-Sep-23	7.92	<4.0	40	32
25-Sep-23	7.63	<4.0	34	36
12-Oct-23	7.31	<4.0	26	16
28-Oct-23	7.57	<4.0	36	20
06-Nov-23	7.61	<4.0	38	32
20-Nov-23	7.73	<4.0	32	28
06-Dec-23	7.81	<4.0	36	24
20-Dec-23	8.01	<4.0	28	36
05-Jan-24	7.03	<4.0	30	24
23-Jan-24	7.23	<4.0	24	20
07-Feb-24	7.49	<4.0	38	20
22-Feb-24	7.73	<4.0	36	28
07-Mar-24	7.42	<4.0	40	32
28-Mar-24	7.55	<4.0	48	36

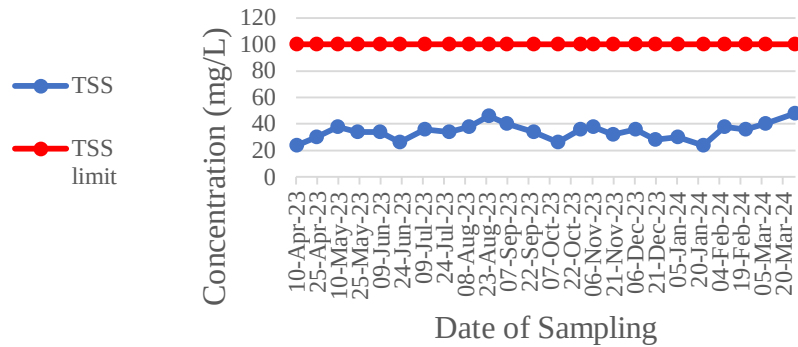
All values are in mg/l except pH & FC (MPN/100 m L)

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 Ranipark
Submersible Pump



Graph showing for TSS Ranipark
Submersible Pump



Graph showing for COD Ranipark
Submersible Pump

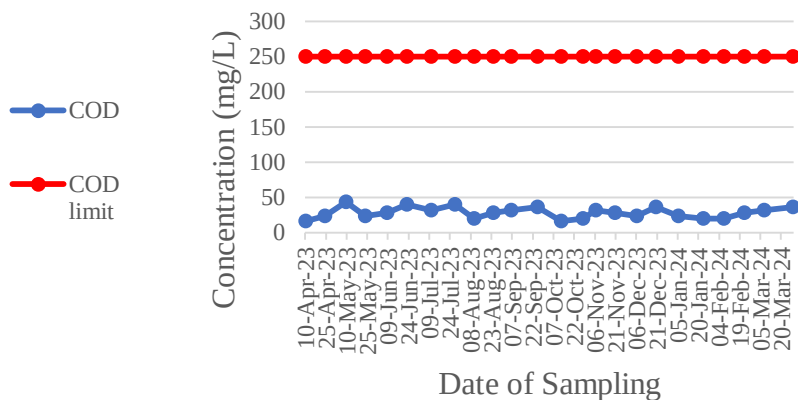


Table:9.47

Area: Talcher**Project:** Handidhwa Colliery**Monitoring station:** Handidhwa Colliery Mine Discharge

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.36	<4.0	22	12
24-Apr-23	7.49	<4.0	34	28
09-May-23	7.36	<4.0	26	12
23-May-23	7.29	<4.0	34	20
08-Jun-23	7.41	<4.0	28	20
22-Jun-23	7.66	<4.0	24	28
10-Jul-23	7.73	<4.0	34	24
27-Jul-23	7.85	<4.0	38	28
10-Aug-23	7.06	<4.0	36	16
24-Aug-23	7.26	<4.0	44	20
06-Sep-23	6.79	<4.0	34	20
25-Sep-23	7.75	<4.0	28	20
12-Oct-23	7.12	<4.0	36	24
28-Oct-23	7.74	<4.0	42	28
06-Nov-23	7.49	<4.0	34	24
20-Nov-23	7.68	<4.0	38	36
06-Dec-23	7.69	<4.0	46	28
20-Dec-23	7.41	<4.0	34	32
05-Jan-24	7.25	<4.0	36	20
23-Jan-24	7.33	<4.0	32	36
07-Feb-24	7.27	<4.0	30	32
22-Feb-24	7.41	<4.0	40	36
07-Mar-24	7.67	<4.0	36	24
28-Mar-24	7.79	<4.0	32	16

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

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

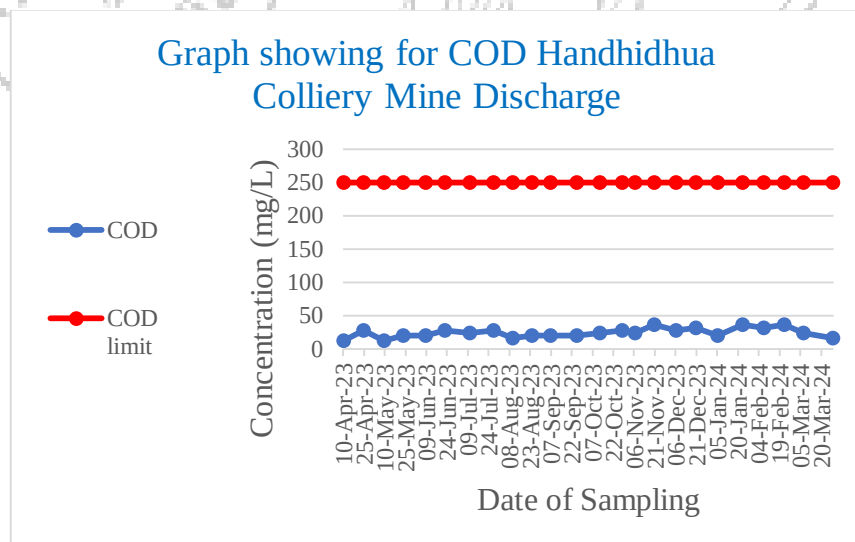
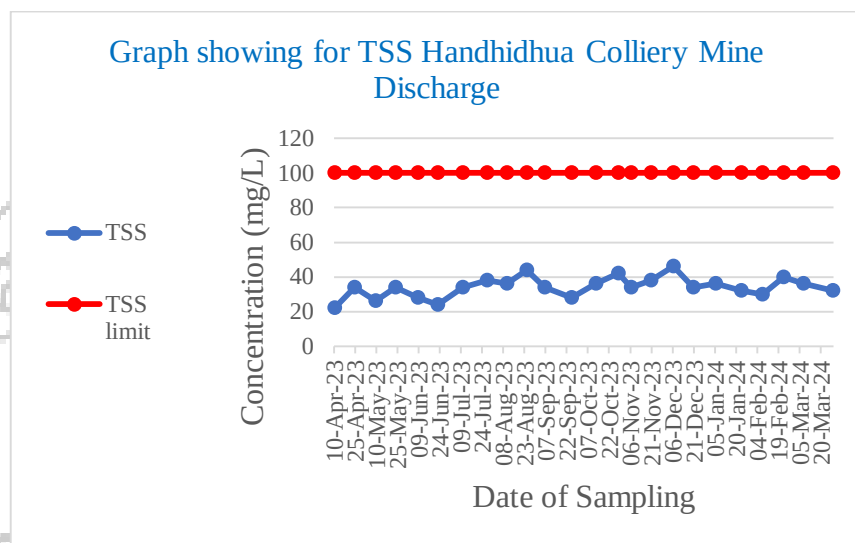
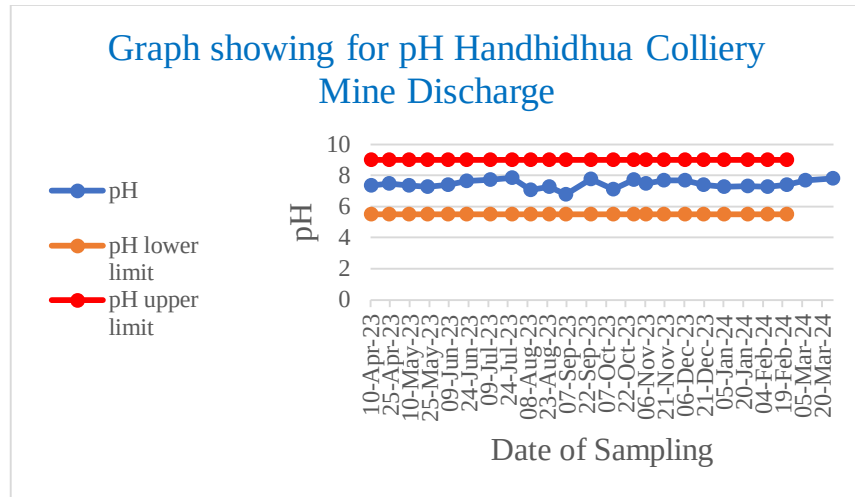


Table:9.48

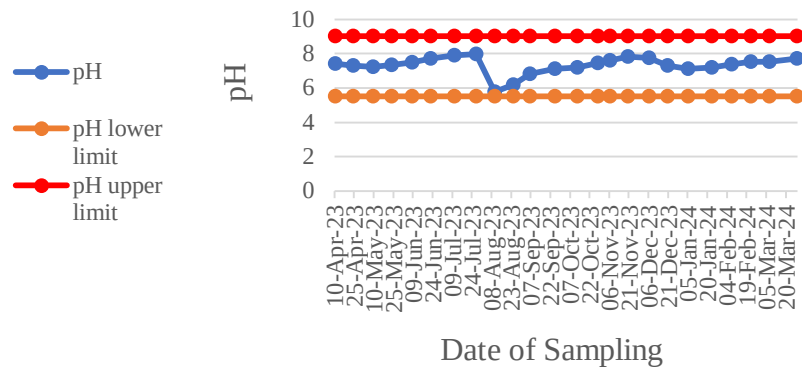
Area: Talcher**Project:** Handidhua Colliery**Monitoring station:** 19X Cut Road Bore Hole Point

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-23	7.41	<4.0	26	24
24-Apr-23	7.3	<4.0	32	20
09-May-23	7.24	<4.0	22	8
23-May-23	7.33	<4.0	30	16
08-Jun-23	7.49	<4.0	36	28
22-Jun-23	7.71	<4.0	30	16
10-Jul-23	7.9	<4.0	38	16
27-Jul-23	7.96	<4.0	30	24
10-Aug-23	5.77	<4.0	32	12
24-Aug-23	6.18	<4.0	38	28
06-Sep-23	6.83	<4.0	38	28
25-Sep-23	7.1	<4.0	32	24
12-Oct-23	7.18	<4.0	52	36
28-Oct-23	7.47	<4.0	38	32
06-Nov-23	7.61	<4.0	28	12
20-Nov-23	7.84	<4.0	34	24
06-Dec-23	7.76	<4.0	42	32
20-Dec-23	7.29	<4.0	30	20
05-Jan-24	7.12	<4.0	28	24
23-Jan-24	7.2	<4.0	22	28
07-Feb-24	7.36	<4.0	24	16
22-Feb-24	7.53	<4.0	34	24
07-Mar-24	7.53	<4.0	30	20
28-Mar-24	7.71	<4.0	26	12

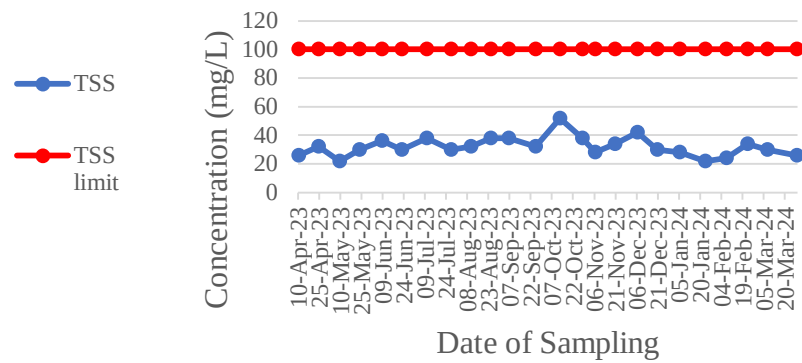
All values are in mg/l except pH & FC (MPN/100 m L)

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

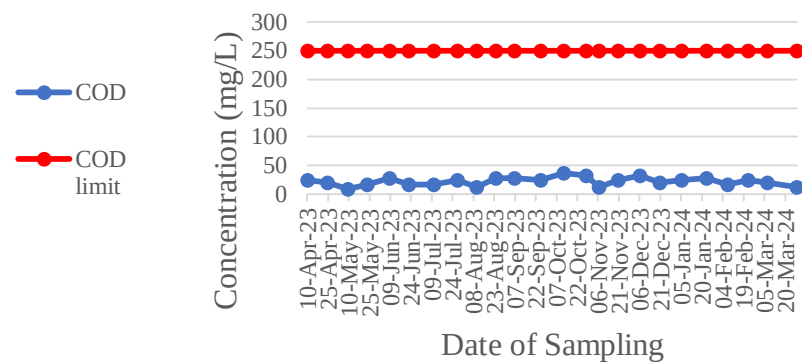
Graph showing for pH 19X Cut Road Bore Hole Point



Graph showing for TSS 19X Cut Road Bore Hole Point



Graph showing for COD 19X Cut Road Bore Hole Point



EFFLUENT 22 PARAMETERS QUALITY DATA

Table: 9.49

Area: Jagannath

Project: Jagannath OCP

Project (OCP / UG)	Jagannath OCP				MoEF-Sch-VI Standards
NAME OF THE STATION	Face Sump				
Date of Sampling	23-May-23	7-Aug-23	20-Nov-23	5-Feb-24	
Colour(Hazen)	2	3	3	3	–
Odour	Unobjection able	Unobjectionable	Unobjection able	Unobjectionable	–
Temperature(°C)	37.2	33.2	27	27	
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	0.68	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.29	1.24	1.26	<0.2	50
Total Kjeldhal Nitrogen, mg/l (As N)	1.13	3.33	3.33	2.25	100
BOD [3 days at 27oC] (mg/L)	<2	<2	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<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)	<0.01	<0.01	<0.01	<0.01	2
Copper(mg/L)	<0.03	<0.03	<0.03	0.06	3
Zinc(mg/L)	<0.04	0.73	0.08	<0.04	5
Selenium(mg/L)	<0.0005	<0.0005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.02	1.00	<0.1	<0.02	3
Fluoride(mg/L)	<0.3	0.34	0.35	0.39	2
Sulphide (mg/L)	<0.1	<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)	<0.04	3.27	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	,0.1	<0.1	3
Dissolved Phosphate(mg/L)	<4.0	<4	<4	<4	5

Table: 9.50

Area: Jagannath**Project:** Ananta OCP

Project (OCP / UG)	Ananta OCP		MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water		
Date of Sampling	23-May-23	20-Nov-23	
Colour(Hazen)	2	2	–
Odour	Unobjectionable	Unobjectionable	–
Temperature(°C)	36.1	26	
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.57	0.87	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.38	2.22	100
BOD [3 days at 27oC] (mg/L)	<2	<2	30
Arsenic, mg/l	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	0.1
Hexavalent 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	1.25	5
Selenium(mg/L)	<0.0005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.02	1.40	3
Fluoride(mg/L)	<0.3	0.32	2
Sulphide (mg/L)	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	5.01	2
Iron(mg/L)	<0.1	0.19	3
Dissolved Phosphate(mg/L)	<4.0	<4	5

Table: 9.51

Area: Bharatpur

Project: Bharatpur OCP

Project (OCP / UG)	Bharatpur OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Workshop ETP Clear Water Tank Outlet	
Date of Sampling	20-Nov-23	
Colour(Hazen)	4	—
Odour	Unobjectionable	—
Temperature(°C)	25.0	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.58	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)	0.05	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.38	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.52

Area: Bharatpur**Project:** Bharatpur OCP

Project (OCP / UG)	Bharatpur OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump (Old Quarry Sump)	
Date of Sampling	20-Nov-23	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	26.0	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.92	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.33	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)	0.34	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.53

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Workshop ETP	
Date of Sampling	24-May-2023	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	37.5	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.43	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.26	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)	<0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	<0.3	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
Dissolved Phosphate(mg/L)	<4.0	5

Table: 9.54

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear water Reservoir of Workshop ETP	
Date of Sampling	24-May-2023	
Colour(Hazen)	1	–
Odour	Unobjectionable	–
Temperature(°C)	32.2	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.68	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.38	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)	<0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	<0.3	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
Dissolved Phosphate(mg/L)	<4.0	5

Table: 9.55

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of ETP Near Dumper parking	
Date of Sampling	24-May-2023	
Colour(Hazen)	3	—
Odour	Unobjectionable	—
Temperature(°C)	36.1	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.39	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.26	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)	<0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	<0.3	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
Dissolved Phosphate(mg/L)	<4.0	5

Table: 9.56

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Reservoir of ETP Near Dumper parking	
Date of Sampling	24-May-2023	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	33.9	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.42	50
Total Kjeldhal Nitrogen, mg/l (As N)	1.13	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)	<0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	<0.3	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
Dissolved Phosphate(mg/L)	<4.0	5

Table: 9.57

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Sedimentaion Pond Complex near Deulbera Siding	
Date of Sampling	7-Feb-2024	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	27.5	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.48	50
Total Kjeldhal Nitrogen, mg/l (As N)	2.25	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	0.48	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.58

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Tank of Sedimentation Pond Complex Near Deulbera Siding	
Date of Sampling	7-Feb-2024	
Colour(Hazen)	3	—
Odour	Unobjectionable	—
Temperature(°C)	25	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.60	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.38	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	0.63	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.59

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	24-May-2023	
Colour(Hazen)	2	–
Odour	Unobjectionable	–
Temperature(°C)	33.62	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.62	50
Total Kjeldhal Nitrogen, mg/l (As N)	3.38	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)	<0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	<0.3	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
Dissolved Phosphate(mg/L)	<4.0	5

Table: 9.60

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of MDTP Near Stock No. 17	
Date of Sampling	8-Aug-2023	
Colour(Hazen)	2	–
Odour	Unobjectionable	–
Temperature(°C)	31.6	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.78	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)	<0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	3
Fluoride(mg/L)	0.54	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.61

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Reservoir of MDTP Near Stock No. 17	
Date of Sampling	8-Aug-2023	
Colour(Hazen)	1	–
Odour	Unobjectionable	–
Temperature(°C)	31.4	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.06	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)	0.08	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.02	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)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.62

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Sedimentation Pond Complex near Lingaraj Siding	
Date of Sampling	22-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)	0.40	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)	0.05	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.32	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.63

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Tank of Sedimentation Pond Complex Near Lingaraj Siding	
Date of Sampling	22-Nov-2023	
Colour(Hazen)	3	–
Odour	Unobjectionable	–
Temperature(°C)	24	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.32	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)	<0.04	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)	<0.04	2
Iron(mg/L)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.64

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Inlet of Sedimentation Pond Complex near Project Office	
Date of Sampling	22-Nov-2023	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	22	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.61	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)	0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	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)	<0.04	2
Iron(mg/L)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.65

Area: Lingaraj

Project: Lingaraj OCP

Project (OCP / UG)	Lingaraj OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Reservoir of Sedimentation Pond Complex near Project Office	
Date of Sampling	22-Nov-2023	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	22	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.79	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)	0.17	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)	0.19	2
Iron(mg/L)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.66

Area: Kaniha

Project: Kaniha OCP

Project (OCP / UG)	Kaniha OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Clear Water Pond (Inflow)	
Date of Sampling	25-Nov-23	
Colour(Hazen)	3	–
Odour	Unobjectionable	–
Temperature(°C)	23	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.42	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)	0.04	5
Selenium(mg/L)	<0.0005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	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)	<0.04	2
Iron(mg/L)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.67

Area: Kaniha

Project: Kaniha OCP

Project (OCP / UG)	Kaniha OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Z-Patch Sump	
Date of Sampling	25-Nov-23	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	25	
Nitrate Nitrogen(mg/L)(As N)	1.06	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)	<0.03	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)	0.45	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.68

Area: Hingula

Project: Balaram OCP

Project (OCP / UG)	Balaram OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	23-Nov-23	
Colour(Hazen)	4	—
Odour	Unobjectionable	—
Temperature(°C)	26	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.43	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.42	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.69

Area: Talcher

Project: Talcher Colliery

Project (OCP / UG)	Talcher Colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Talcher Colliery Sedimentation Tank Discharge	
Date of Sampling	20-Nov-23	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	25	
Nitrate Nitrogen(mg/L)(As N)	1.44	10
Ammonical Nitrogen , mg/l (As N)	0.29	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.36	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)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.70

Area: Talcher

Project: Nandira Colliery

Project (OCP / UG)	Nandira Colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Nandira Colliery Sedimentation Tank Discharge	
Date of Sampling	20-Nov-23	
Colour(Hazen)	3	–
Odour	Unobjectionable	–
Temperature(°C)	25	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.84	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)	<0.04	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)	<0.04	2
Iron(mg/L)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.71

Area: Talcher

Project: Deulbera colliery

Project (OCP / UG)	Deulbera colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Deulbera Colliery Mine Discharge at Pit Top	
Date of Sampling	20-Nov-23	
Colour(Hazen)	1	—
Odour	Unobjectionable	—
Temperature(°C)	28	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.31	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.36	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)	<0.1	3
Dissolved Phosphate(mg/L)	<4	5

Table: 9.72

Area: Talcher

Project: Deulbera colliery

Project (OCP / UG)	Deulbera colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Rani Park Submersible Pump	
Date of Sampling	20-Nov-23	
Colour(Hazen)	2	—
Odour	Unobjectionable	—
Temperature(°C)	22	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.25	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.40	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.73

Area: Talcher

Project: Handhidhua Colliery

Project (OCP / UG)	Handhidhua Colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	Handhidhua Colliery Mine Discharge	
Date of Sampling	20-Nov-23	
Colour(Hazen)	4	—
Odour	Unobjectionable	—
Temperature(°C)	24	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	0.46	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)	0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.45	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
Dissolved Phosphate(mg/L)	<4	5

Table: 9.74

Area: Talcher

Project: Handhidhua Colliery

Project (OCP / UG)	Handhidhua Colliery	MoEF-Sch-VI Standards
NAME OF THE STATION	19X Cut Road Bore Hole Point	
Date of Sampling	20-Nov-23	
Colour(Hazen)	2	–
Odour	Unobjectionable	–
Temperature(°C)	22	
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	1.13	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)	<0.04	5
Selenium(mg/L)	<0.005	0.05
Cadmium(mg/L)	<0.001	2.0
Nickel(mg/L)	<0.1	3
Fluoride(mg/L)	0.40	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
Dissolved Phosphate(mg/L)	<4	5

9.2.2 SURFACE WATER ANALYTICAL RESULTS

Table: 9.75

Area: Jagannath

Project: Jagannath OCP

Project/OCP	Jagannath OCP			
NAME OF STATIONS	Upstream of Brahmani River where Bangaru Water meets			
Date of sampling	22-May-23	21-Aug-23	21-Nov-23	22-Jan-24
pH	7.88	3.70	8.05	8.12
Dissolved Oxygen(mg/L)	6.8	6.4	5.5	6.7
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	2	2	1	3
Total dissolved solids (mg/L)	540	978	392	370
TSS(mg/L)	34	54	20	28
Total Hardness(mg/L)	333.3	846.12	258.07	257.38
Copper(mg/L)	0.1	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	35.68	29.73	58.32	62.62
Sulphate(mg/L)	70.05	682.5	57.20	62.31
Nitrate(mg/L)	13.10	18.8	14.54	14.86
Fluoride(mg/L)	0.54	0.46	0.39	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)	<0.04	<0.04	<0.04	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)	6.1	11	17	38
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 9.76
Area: Jagannath
Project: Jagannath OCP

Project/OCP	Jagannath OCP		
NAME OF STATIONS	Downstream of Banagaru Jhor Nalla		
Date of sampling	22-May-23	21-Aug-23	21-Nov-23
pH	8.29	7.89	8.03
Dissolved Oxygen(mg/L)	6.2	6.6	5.7
BOD (3 days 27°C(mg/L)	<2	<2	<2
Color (Hazen unit)	3	1	1
Total dissolved solids (mg/L)	682	240	488
TSS(mg/L)	58	26	26
Total Hardness(mg/L)	441.8	182.18	423.40
Copper(mg/L)	0.06	0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1
Chlorides(mg/L)	47.6	19.82	29.16
Sulphate(mg/L)	147.8	78.38	165.37
Nitrate(mg/L)	20.10	17.4	17.36
Fluoride(mg/L)	0.63	0.46	0.34
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	1.18	<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)	8.2	17	14
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2

Table: 9.77
Area: Jagannath
Project: Jagannath OCP

Project/OCP	Jagannath OCP		
NAME OF STATIONS	Downstream of Banagaru River where Bangaru Water meets		
Date of sampling	22-May-23	21-Nov-23	22-Jan-24
pH	8.09	4.98	5.37
Dissolved Oxygen(mg/L)	6.4	6.0	6.3
BOD (3 days 27°C(mg/L)	<2	<2	<2
Color (Hazen unit)	3	3	4
Total dissolved solids (mg/L)	592	1036	984
TSS(mg/L)	46	34	42
Total Hardness(mg/L)	361.4	580.67	546.94
Copper(mg/L)	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	0.46	<0.1
Chlorides(mg/L)	41.6	75.82	70.45
Sulphate(mg/L)	80.64	190.24	164.60
Nitrate(mg/L)	14.40	18.26	17.75
Fluoride(mg/L)	0.60	0.50	0.69
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	1.08	0.1
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	21	47
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2

Table: 9.78
Area: Jagannath
Project: Jagannath OCP

Project/OCP	Jagannath OCP	
NAME OF STATIONS	East Sump	
Date of sampling	22-May-23	21-Nov-23
pH	7.76	6.69
Dissolved Oxygen(mg/L)	7.1	6.2
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	4
Total dissolved solids (mg/L)	512	494
TSS(mg/L)	46	30
Total Hardness(mg/L)	321.3	411.30
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	31.71	23.33
Sulphate(mg/L)	134.5	139.02
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.48	0.45
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)	5.5	10
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.79
Area: Jagannath
Project: Jagannath OCP

Project/OCP	Jagannath OCP	
NAME OF STATIONS	Central Sump	
Date of sampling	22-May-23	21-Nov-23
pH	7.84	6.78
Dissolved Oxygen(mg/L)	6.4	6.7
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	1	2
Total dissolved solids (mg/L)	526	428
TSS(mg/L)	42	28
Total Hardness(mg/L)	281.1	350.82
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	29.73	21.38
Sulphate(mg/L)	118.9	148.78
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.64	0.38
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)	6	11
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.80

Area: Bharatpur**Project:** Bharatpur OCP

Project/OCP	Bharatpur OCP	
NAME OF STATIONS	Bangaru Jhor river near Joragarhia as downstream water point of Bharatpur OCP , No discharge from BOCP only to check surface water quality	
Date of sampling	23-May-23	21-Nov-23
pH	7.68	7.73
Dissolved Oxygen(mg/L)	6.3	6.8
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	2
Total dissolved solids (mg/L)	588	374
TSS(mg/L)	54	36
Total Hardness(mg/L)	317.3	318.56
Copper(mg/L)	0.1	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	35.68	19.44
Sulphate(mg/L)	158.5	137.80
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.40	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)	0.04	<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)	8.3	17
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.81
Area: Bharatpur
Project: Bharatpur OCP

Project/OCP	Bharatpur OCP	
NAME OF STATIONS	Bangaru Jhor river near upstream water point of Bharatpur OCP , No discharge from BOCP only to check surface water quality	
Date of sampling	23-May-23	21-Nov-23
pH	7.47	7.69
Dissolved Oxygen(mg/L)	6.6	6.4
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	2
Total dissolved solids (mg/L)	562	530
TSS(mg/L)	38	28
Total Hardness(mg/L)	297.2	447.60
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	29.73	29.16
Sulphate(mg/L)	151.9	159.63
Nitrate(mg/L)	4.62	4.28
Fluoride(mg/L)	0.62	0.49
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)	8.1	13
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.82
Area: Bharatpur
Project: Bharatpur OCP

Project/OCP	Bharatpur OCP	
NAME OF STATIONS	Pond Water near N-W point of mine	
Date of sampling	23-May-23	21-Nov-23
pH	8.13	7.92
Dissolved Oxygen(mg/L)	6.2	5.9
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	3
Total dissolved solids (mg/L)	682	398
TSS(mg/L)	52	20
Total Hardness(mg/L)	409.6	322.59
Copper(mg/L)	0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	27.75	19.44
Sulphate(mg/L)	162.4	119.51
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.50	0.35
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)	6	22
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.83
Area: Bharatpur
Project: Bharatpur OCP

Project/OCP	Bharatpur OCP	
NAME OF STATIONS	Jambubahali Village Pond	
Date of sampling	23-May-23	21-Nov-23
pH	7.64	7.87
Dissolved Oxygen(mg/L)	6.9	5.6
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	3
Total dissolved solids (mg/L)	186	380
TSS(mg/L)	34	26
Total Hardness(mg/L)	84	306
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	21.80	21.38
Sulphate(mg/L)	35.12	117.68
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.43	0.43
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	26
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.84
Area: Lingraj
Project: Lingraj OCP

Project/OCP	Lingraj OCP			
NAME OF STATIONS	Village pond near Deulbera siding			
Date of sampling	23-May-23	22-Aug-23	22-Nov-23	23-Jan-24
pH	8.09	7.07	7.29	7.43
Dissolved Oxygen(mg/L)	6.3	6.5	6.6	6.2
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	1	3	2	3
Total dissolved solids (mg/L)	520	114	428	462
TSS(mg/L)	64	42	34	38
Total Hardness(mg/L)	381.5	80.97	362.92	325.75
Copper(mg/L)	0.1	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1	0.1
Chlorides(mg/L)	55.50	13.87	17.50	23.48
Sulphate(mg/L)	143.5	32.38	36.45	38.12
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.55	0.35	0.34	0.44
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	0.21	<0.04	0.12
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	20	21	84
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 9.85
Area: Kaniha
Project: Kaniha OCP

Project/OCP	Kaniha OCP	
NAME OF STATIONS	Singada jhor stream nearer to Village Khairnali as u/s Water for Kaniha OCP	
Date of sampling	24-May-23	22-Nov-23
pH	7.88	7.73
Dissolved Oxygen(mg/L)	7	6.9
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	1
Total dissolved solids (mg/L)	92	180
TSS(mg/L)	36	30
Total Hardness(mg/L)	30.1	125
Copper(mg/L)	0.04	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	55.16	9.72
Sulphate(mg/L)	16.21	53.17
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.36	0.38
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	0.14
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)	8.1	31
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.86
Area: Kaniha
Project: Kaniha OCP

Project/OCP	Kaniha OCP	
NAME OF STATIONS	Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniha OCP	
Date of sampling	24-May-23	22-Nov-23
pH	8.28	8.17
Dissolved Oxygen(mg/L)	6	6.3
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	4	3
Total dissolved solids (mg/L)	318	364
TSS(mg/L)	58	30
Total Hardness(mg/L)	177	262.11
Copper(mg/L)	0.04	<0.03
Iron(mg/L)	<.01	<0.1
Chlorides(mg/L)	37.7	87.48
Sulphate(mg/L)	48.36	61.59
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.49	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)	0.09	<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)	6.1	15
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.87
Area: Kaniha
Project: Kaniha OCP

Project/OCP	Kaniha OCP	
NAME OF STATIONS	Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP	
Date of sampling	24-May-23	22-Nov-23
pH	8.13	7.86
Dissolved Oxygen(mg/L)	6.5	6.4
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	2
Total dissolved solids (mg/L)	288	64
TSS(mg/L)	44	38
Total Hardness(mg/L)	136.5	48.39
Copper(mg/L)	0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	29.73	11.66
Sulphate(mg/L)	58.35	8.66
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.43	0.45
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	<0.04
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)	8.3	33
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.88
Area: Kaniha
Project: Kaniha OCP

Project/OCP	Kaniha OCP	
NAME OF STATIONS	Tikra Nadi Near Kaniha Village as u/s Water for Kaniha OCP	
Date of sampling	24-May-23	22-Nov-23
pH	8.2	8.08
Dissolved Oxygen(mg/L)	6.9	6.6
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	3	1
Total dissolved solids (mg/L)	296	220
TSS(mg/L)	52	24
Total Hardness(mg/L)	156.6	193.56
Copper(mg/L)	0.04	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	33.69	19.44
Sulphate(mg/L)	63.15	15.24
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.35	0.32
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	<0.04
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)	5.6	14
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 9.99
Area: Hingula
Project: Hingula OCP

Project/OCP	Hingula OCP			
NAME OF STATIONS	Singadhajhor Stream Near Kumunda village			
Date of sampling	24-May-23	26-Aug-23	23-Nov-23	24-Jan-24
pH	8.31	8.14	8.16	8.09
Dissolved Oxygen(mg/L)	7.1	6.1	6.0	6.8
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	3	2	2
Total dissolved solids (mg/L)	310	166	138	152
TSS(mg/L)	56	52	38	30
Total Hardness(mg/L)	148.6	121.45	116.94	88.48
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	13.87	9.72	14
Sulphate(mg/L)	43.3	31.63	17.56	19.32
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.44	0.32	0.31	0.58
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)	0.09	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)	8.3	12	26	43
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 100
Area: Hingula
Project: Hingula OCP

Project/OCP	Hingula OCP			
NAME OF STATIONS	Singadhajhor Stream Near Baghabaspur village			
Date of sampling	24-May-23	26-Aug-23	23-Nov-23	24-Jan-24
pH	8.14	8.31	8.24	8.15
Dissolved Oxygen(mg/L)	5.9	6.3	5.36	5.6
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	2	1	4
Total dissolved solids (mg/L)	252	220	248	266
TSS(mg/L)	46	48	18	26
Total Hardness(mg/L)	176.7	133.60	205.65	152.82
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)	25.77	11.89	19.44	25.44
Sulphate(mg/L)	44.96	130.0	42.44	44.15
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.39	0.35	0.36	0.64
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)	0.08	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)	6.1	14	32	49
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 101
Area: Hingula
Project: Hingula OCP

Project/OCP	Hingula OCP			
NAME OF STATIONS	Pond Water of Kankarei Village			
Date of sampling	24-May-23	26-Aug-23	23-Nov-23	24-Jan-24
pH	8.06	8.25	8.19	8.10
Dissolved Oxygen(mg/L)	7.0	6.2	6.6	5.4
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	1	3	2	1
Total dissolved solids (mg/L)	180	478	90	102
TSS(mg/L)	38	22	28	36
Total Hardness(mg/L)	60.2	396.74	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)	27.75	25.77	29.16	27.40
Sulphate(mg/L)	38.32	120.0	5.46	6.38
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.36	0.38	0.39	0.36
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)	0.09	0.04	<0.04	0.14
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	21	43	70
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 102
Area: Hingula
Project: Hingula OCP

Project/OCP	Hingula OCP			
NAME OF STATIONS	Mine Sump Water			
Date of sampling	24-May-23	26-Aug-23	23-Nov-23	24-Jan-24
pH	7.95	8.36	8.31	8.24
Dissolved Oxygen(mg/L)	7.2	6.5	5.8	5.5
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	3	1	4	2
Total dissolved solids (mg/L)	166	496	258	278
TSS(mg/L)	32	26	24	30
Total Hardness(mg/L)	72	425.08	209.68	201.08
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)	23.78	25.77	21.38	25.44
Sulphate(mg/L)	34.75	122.5	45.73	49.23
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.42	0.47	0.37	0.51
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)	0.08	0.05	<0.04	0.12
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	15	33
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 103
Area: Hingula
Project: Balaram OCP

Project/OCP	Balaram OCP			
NAME OF STATIONS	Derjenga reservoir as a part of Impact Study			
Date of sampling	24-May-23	26-Aug-23	23-Nov-23	24-Jan-24
pH	7.67	8.06	8.10	8.02
Dissolved Oxygen(mg/L)	6.6	5.9	5.4	5.9
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	2	2	2	2
Total dissolved solids (mg/L)	204	356	130	144
TSS(mg/L)	44	34	28	38
Total Hardness(mg/L)	100.4	279.34	92.75	80.43
Copper(mg/L)	0.04	<0.03	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1	<0.1	0.11
Chlorides(mg/L)	35.68	21.8	23.33	21.53
Sulphate(mg/L)	31.23	133.13	4.84	6.11
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.50	0.36	0.46	0.62
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001
Arsenic(mg/L)	<0.001	<0.005	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005
Zinc(mg/L)	0.07	0.06	<0.04	0.10
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	23	9.1	58
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 104
Area: Hingula
Project: Balaram OCP

Project/OCP	Balaram OCP			
NAME OF STATIONS	Pond water of Ambapal Village			
Date of sampling	24-May-23	26-Aug-23	23-Nov-23	24-Jan-24
pH	7.75	8.18	8.24	8.13
Dissolved Oxygen(mg/L)	7.2	6.2	6.2	6.6
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	1	1	2	3
Total dissolved solids (mg/L)	192	198	262	284
TSS(mg/L)	50	38	18	28
Total Hardness(mg/L)	84.3	105.26	217.75	201.08
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)	39.6	43.60	13.61	19.57
Sulphate(mg/L)	53.74	39.50	26.46	32.14
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.42	0.45	0.34	0.47
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	0.06	<0.04	0.1
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	30	32	79
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 105
Area: Talcher
Project: Talcher Colliery

Project/OCP	Talcher Colliery	
NAME OF STATIONS	Pond Water of Dera Village	
Date of sampling	22-May-23	21-Nov-23
pH	7.59	8.33
Dissolved Oxygen(mg/L)	5.8	6.5
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	3
Total dissolved solids (mg/L)	182	244
TSS(mg/L)	32	34
Total Hardness(mg/L)	76.3	129.04
Copper(mg/L)	<0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	43.60	48.60
Sulphate(mg/L)	36.15	42.32
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.37	0.46
Cadmium(mg/L)	<0.001	<0.001
Arsenic(mg/L)	<0.005	<0.005
Lead(mg/L)	<0.005	<0.005
Zinc(mg/L)	0.08	<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)	14	38
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 106
Area: Talcher
Project: Nandira Colliery

Project/OCP	Nandira Colliery	
NAME OF STATIONS	Jambubahali Village Pond	
Date of sampling	22-May-23	21-Nov-23
pH	8.03	8.10
Dissolved Oxygen(mg/L)	6.3	6.2
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	2
Total dissolved solids (mg/L)	188	124
TSS(mg/L)	44	40
Total Hardness(mg/L)	80.3	88.71
Copper(mg/L)	0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	25.77	29.16
Sulphate(mg/L)	42.23	36.23
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.56	0.48
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	<0.04
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)	12	34
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 107
Area: Talcher
Project: Deulbera Colliery

Project/OCP	Deulbera Colliery	
NAME OF STATIONS	Pond Water of Gopinathpur Village	
Date of sampling	22-May-23	21-Nov-23
pH	7.93	8.20
Dissolved Oxygen(mg/L)	6.5	6.4
BOD (3 days 27°C(mg/L)	<2	<2
Color (Hazen unit)	2	1
Total dissolved solids (mg/L)	174	130
TSS(mg/L)	40	22
Total Hardness(mg/L)	76.30	100.81
Copper(mg/L)	0.03	<0.03
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	23.78	11.66
Sulphate(mg/L)	33.42	18.66
Nitrate(mg/L)	<2.0	<2.0
Fluoride(mg/L)	0.48	0.45
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	<0.04
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)	9.1	23
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2

Table: 108
Area: Talcher
Project: Mandapal Sand Mine

Project/OCP	Mandapal Sand Mine			
NAME OF STATIONS	Upstream - At 200 m before leasehold area			
Date of sampling	22-May-23	24-Aug-23	21-Nov-23	22-Jan-24
pH	7.81	7.96	8.15	8.05
Dissolved Oxygen(mg/L)	6.9	5.6	6.0	6.4
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	2	3	1	2
Total dissolved solids (mg/L)	138	68	110	122
TSS(mg/L)	38	48	24	34
Total Hardness(mg/L)	36.1	36.44	84.68	72.39
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)	21.80	5.95	7.78	11.74
Sulphate(mg/L)	23.56	36.75	17.56	22.31
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.33	0.35	0.37	0.68
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)	0.05	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)	6.8	10	6.8	46
Chromium(as Cr ⁶⁺)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

Table: 109
Area: Talcher
Project: Mandapal Sand Mine

Project/OCP	Mandapal Sand Mine			
NAME OF STATIONS	Downstream - At 200 m after leasehold area			
Date of sampling	22-May-23	24-Aug-23	21-Nov-23	22-Jan-24
pH	7.95	8.10	8.19	8.11
Dissolved Oxygen(mg/L)	6.9	6.3	6.5	6.0
BOD (3 days 27°C(mg/L)	<2	<2	<2	<2
Color (Hazen unit)	2	2	3	3
Total dissolved solids (mg/L)	154	78	128	140
TSS(mg/L)	52	62	32	42
Total Hardness(mg/L)	52.2	28.34	100.81	92.50
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)	25.77	13.87	11.66	14
Sulphate(mg/L)	27.32	30.25	17.80	24.34
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0
Fluoride(mg/L)	0.46	0.31	0.34	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)	0.05	<0.04	<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)	8.2	12	9.2	58
Chromium(as Cr ⁶)(mg/L)	<0.01	<0.05	<0.05	<0.05
Residual Free Chlorine(mg/L)	<0.2	<0.2	<0.2	<0.2

9.2.3 WELL WATER ANALYTICAL RESULTS

Table: 110

Area: Jagannath

Project: Jagannath OCP

Monitoring Station: Rakas village well

Date of sampling	Water level (bgl in meter)
22-May-23	5.89
21-Aug-23	4.55
06-Nov-23	4.7
22-Jan-24	5.4

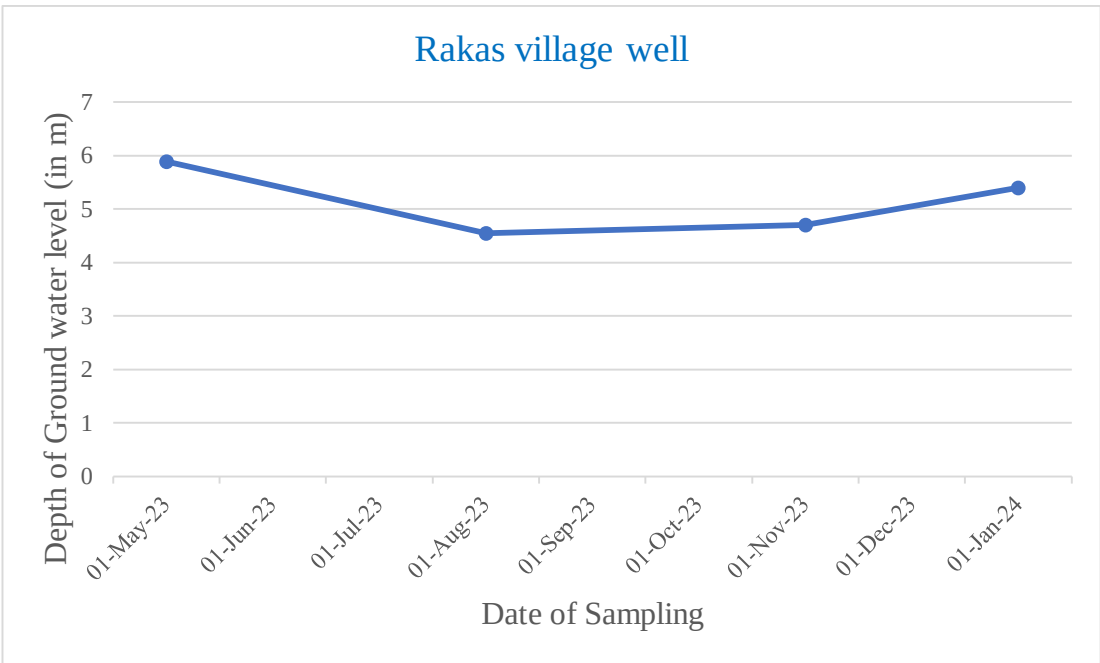


Table:111

Area: Jagannath**Project: Ananta OCP****Monitoring Station: Dera village well**

Date of sampling	Water level (bgl in meter)
22-May-23	3.8
21-Aug-23	1.55
06-Nov-23	2
22-Jan-24	2

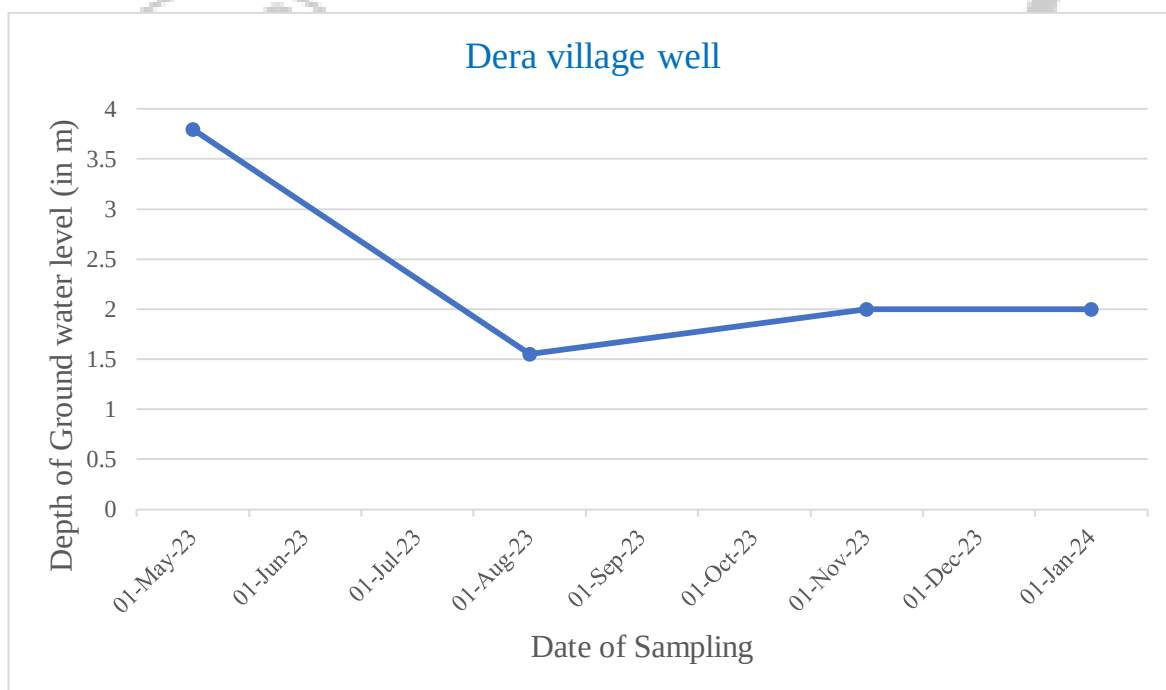


Table:112
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Badasinghada village open well

Date of sampling	Water level (bgl in meter)
21-Aug-23	2.6
06-Nov-23	3.05

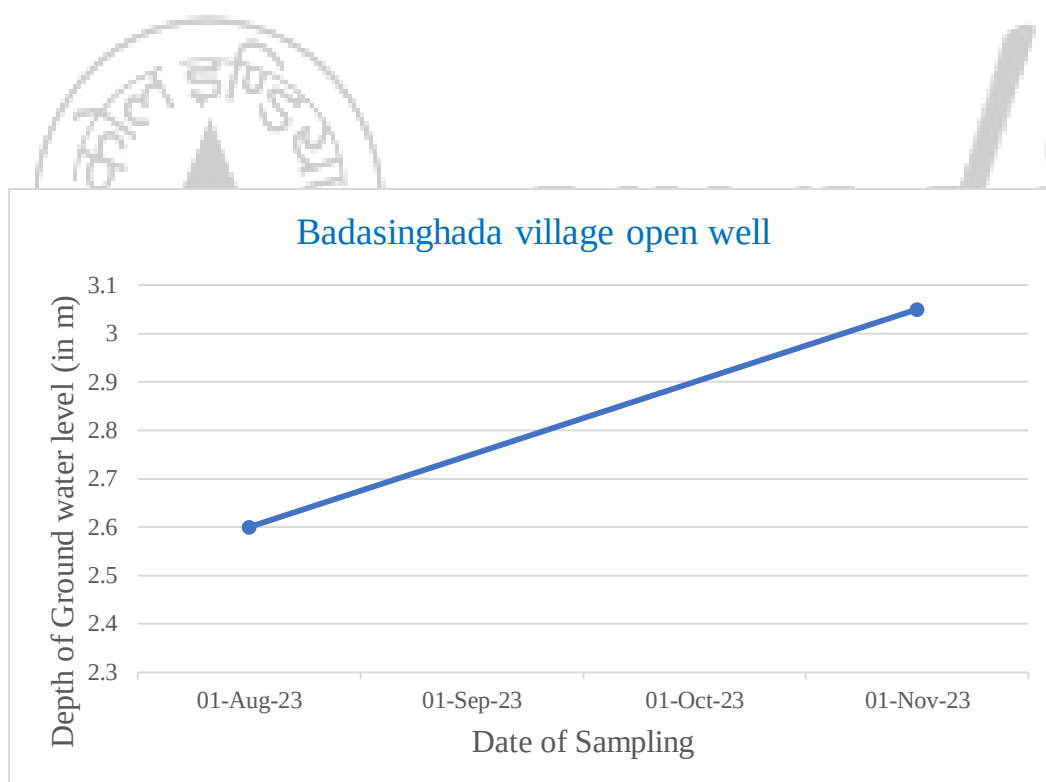


Table:113
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Danara village well (Reported only)

Date of sampling	Water level (bgl in meter)
24-May-23	4.7
25-Aug-23	4.75
08-Nov-23	4.8
24-Jan-24	4.9

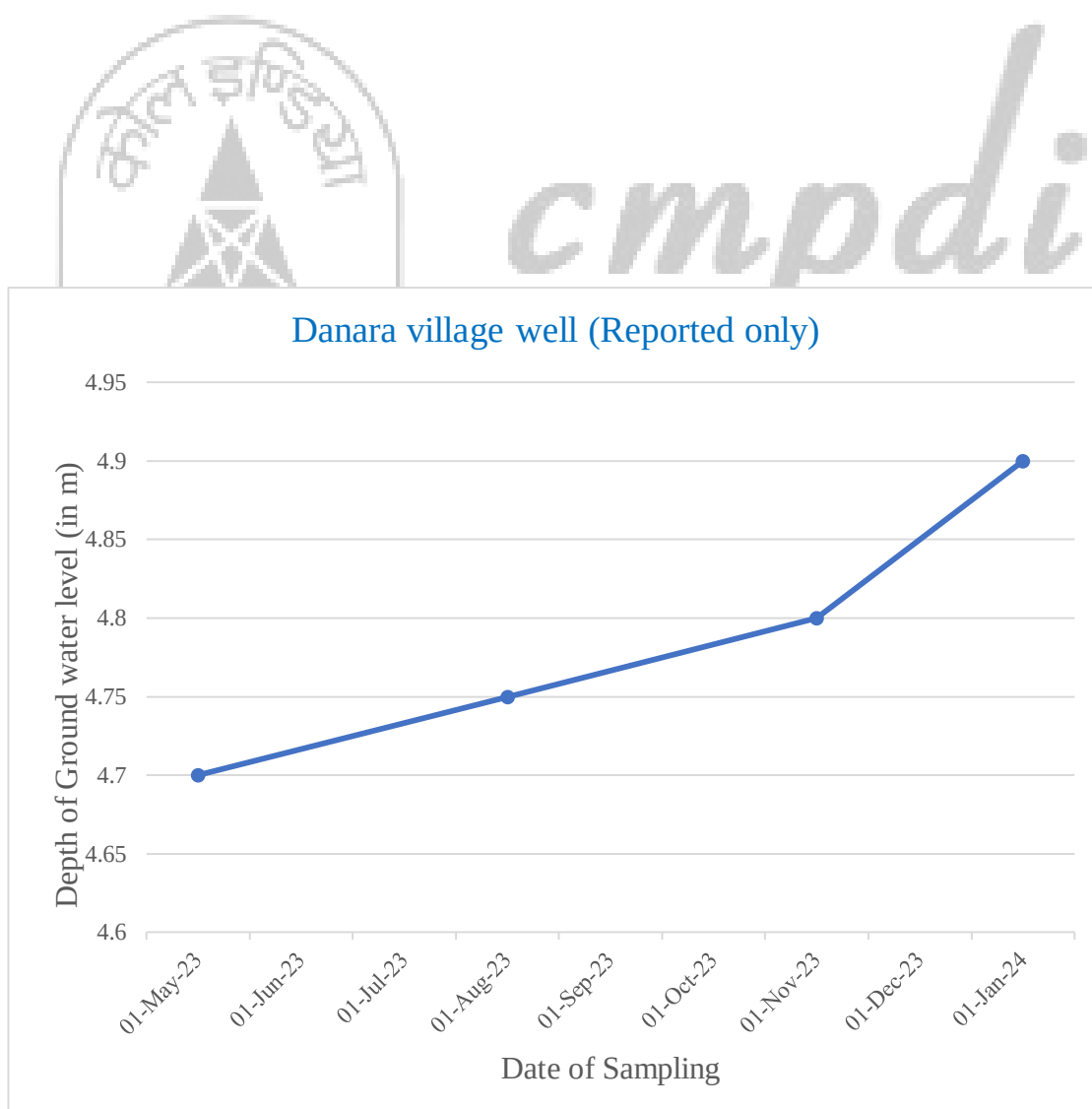


Table:114
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Teleipasi village open well

Date of sampling	Water level (bgl in meter)
23-May-23	4.2
21-Aug-23	2.19
06-Nov-23	3.8
22-Jan-24	3.78

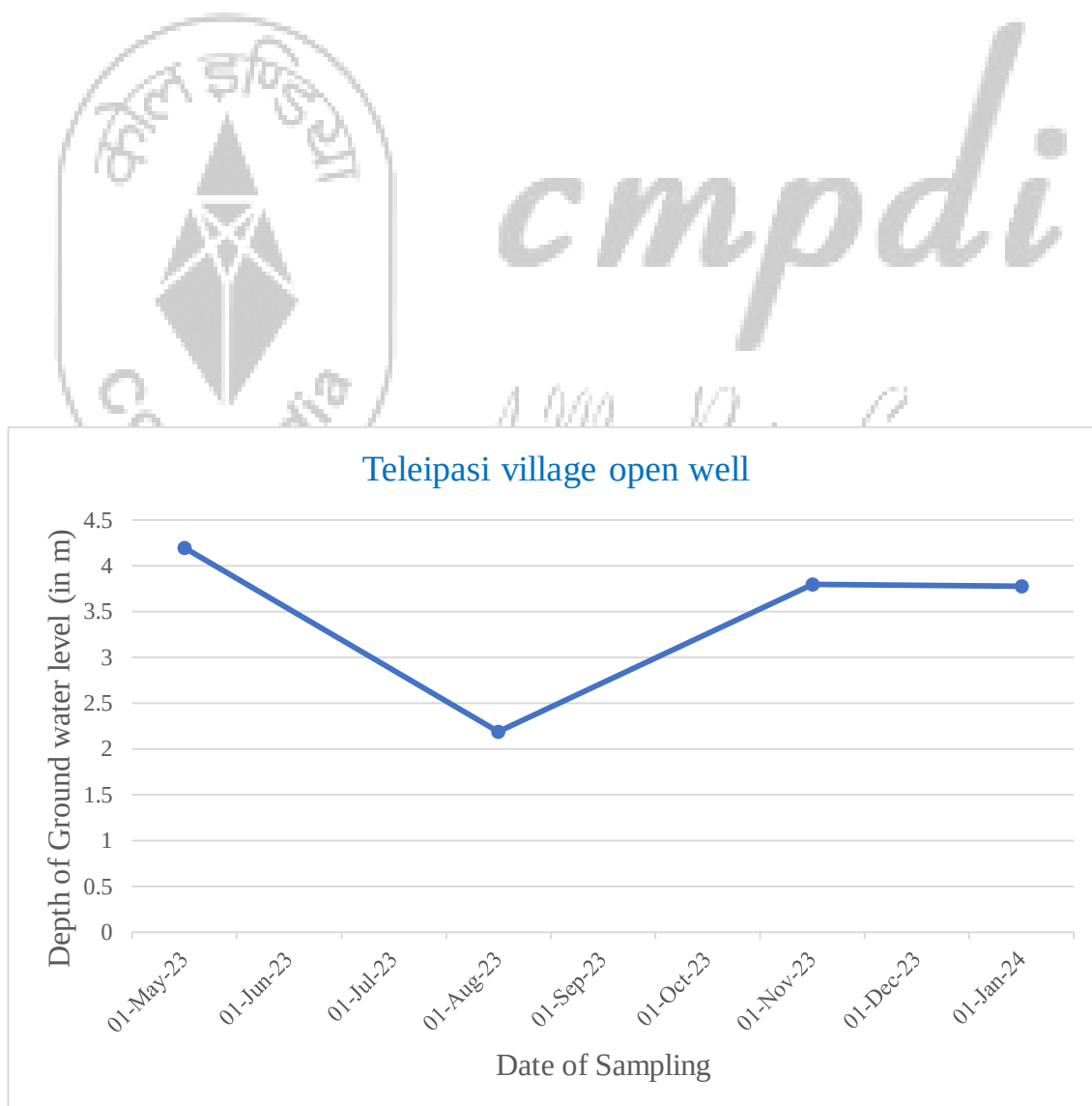


Table:115
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Balunga Khamar village well

Date of sampling	Water level (bgl in meter)
23-May-23	1.8
22-Aug-23	1.68
07-Nov-23	1.2
23-Jan-24	2.4

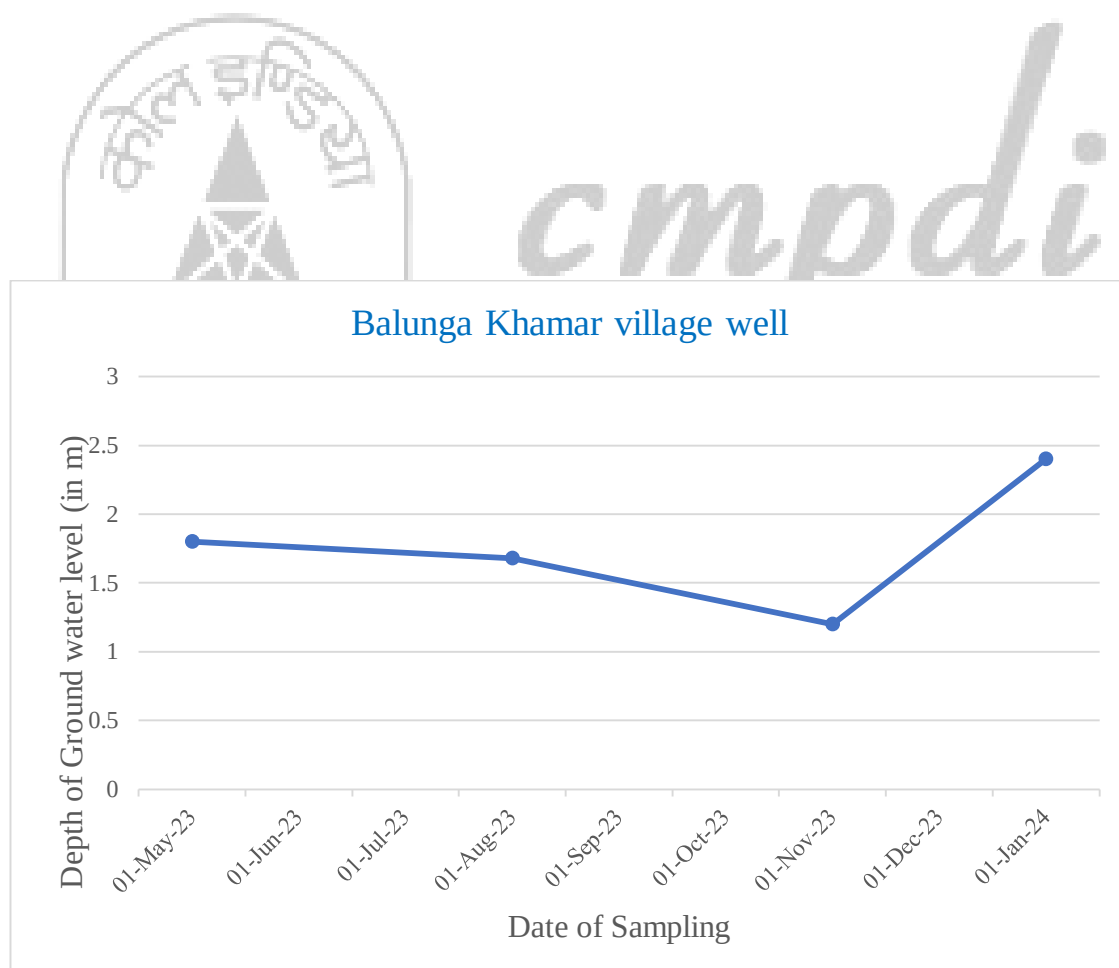


Table:116
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Deulbera village well

Date of sampling	Water level (bgl in meter)
23-May-23	1.8
22-Aug-23	1.65
07-Nov-23	2.08
23-Jan-24	2

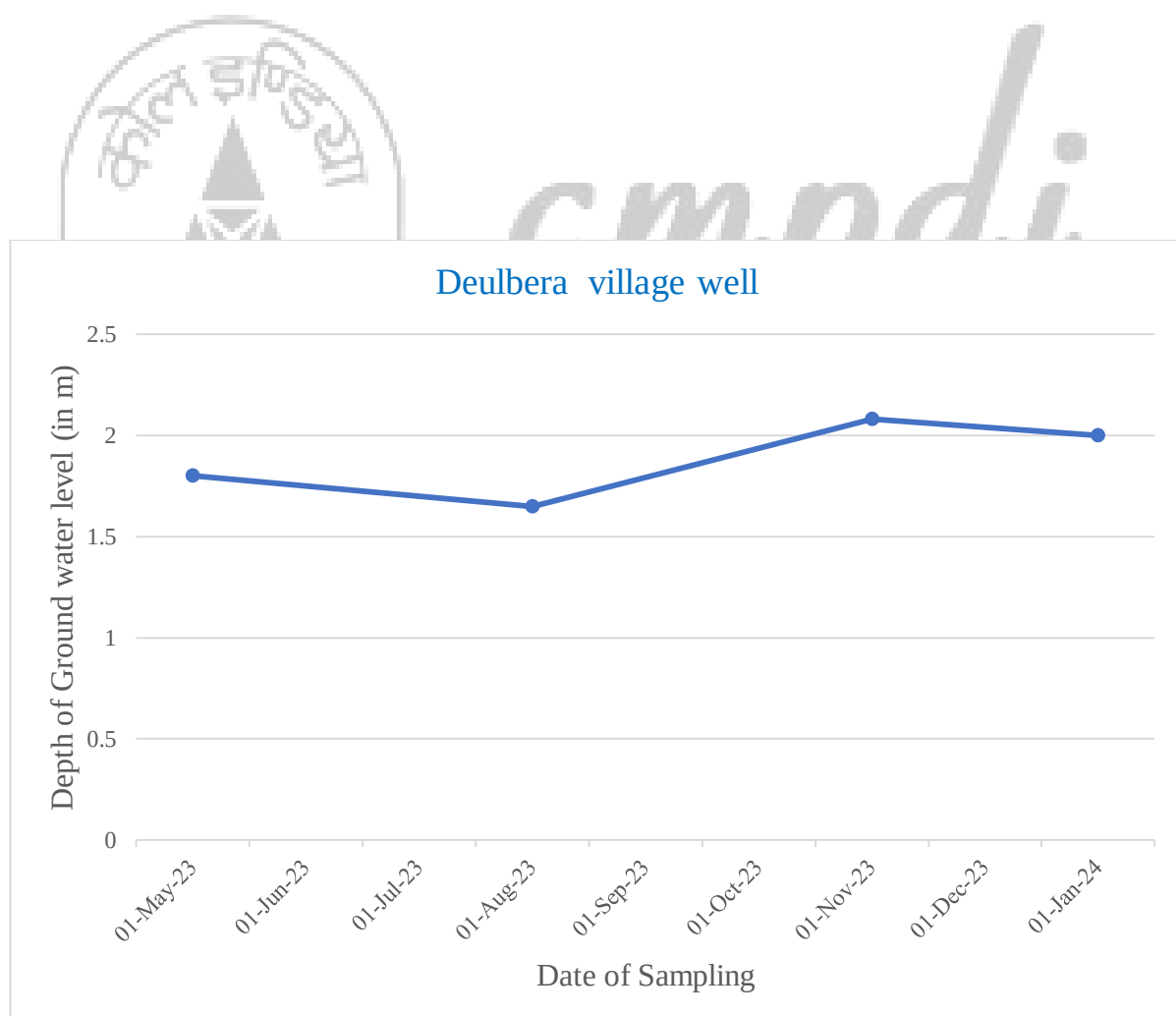


Table:117
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Kankili village well

Date of sampling	Water level (bgl in meter)
23-May-23	1.9
22-Aug-23	1.7
07-Nov-23	1.06
23-Jan-24	1.2

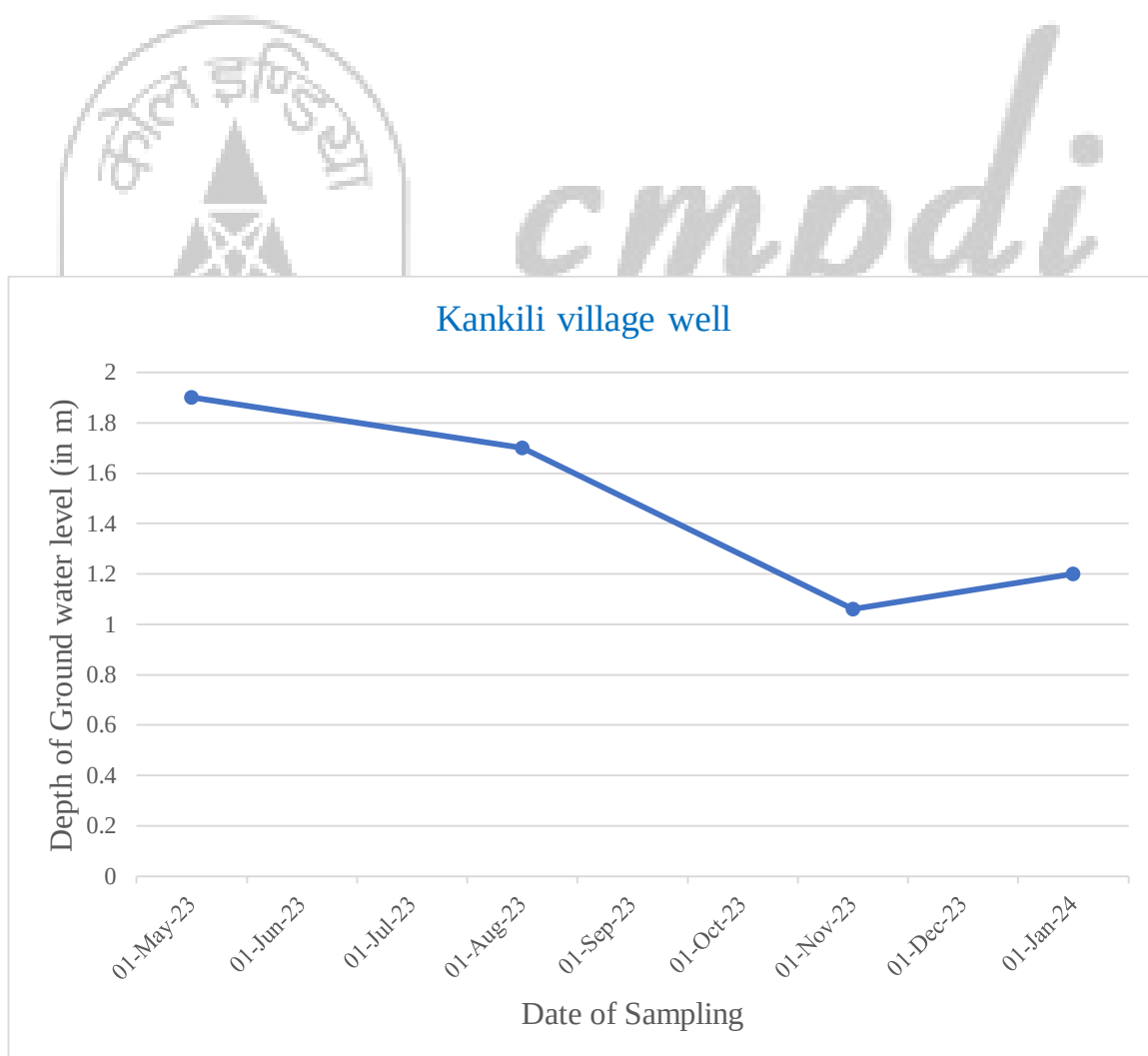


Table: 118
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: Talabera village well

Date of sampling	Water level (bgl in meter)
23-May-23	3.45
22-Aug-23	1.6
07-Nov-23	2.59
23-Jan-24	2.67

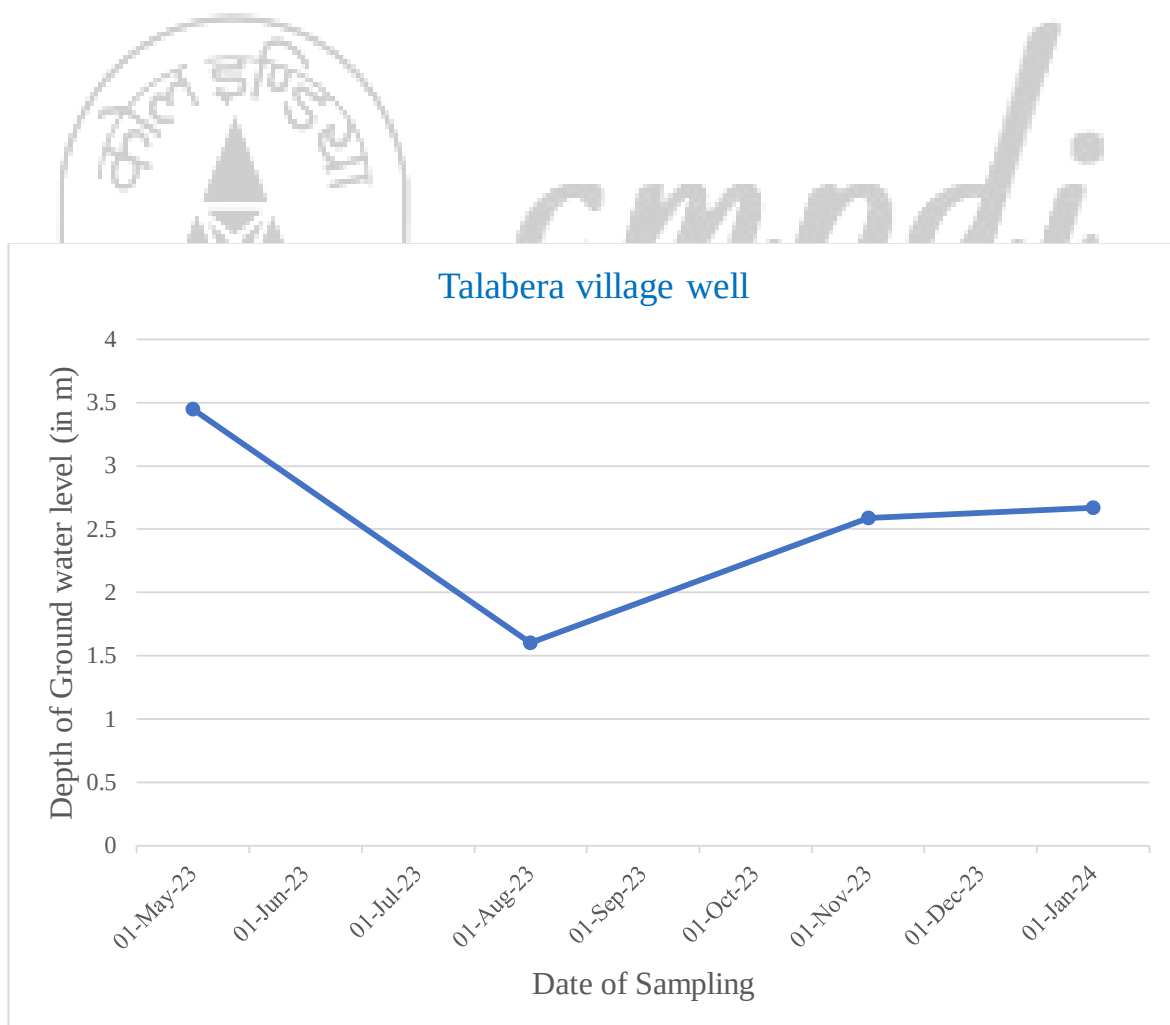


Table: 119
Area: Hingula
Project: Balaram OCP
Monitoring Station: Danara village well

Date of sampling	Water level (bgl in meter)
24-May-23	4.7
25-Aug-23	4.75
08-Nov-23	4.8
24-Jan-24	4.9

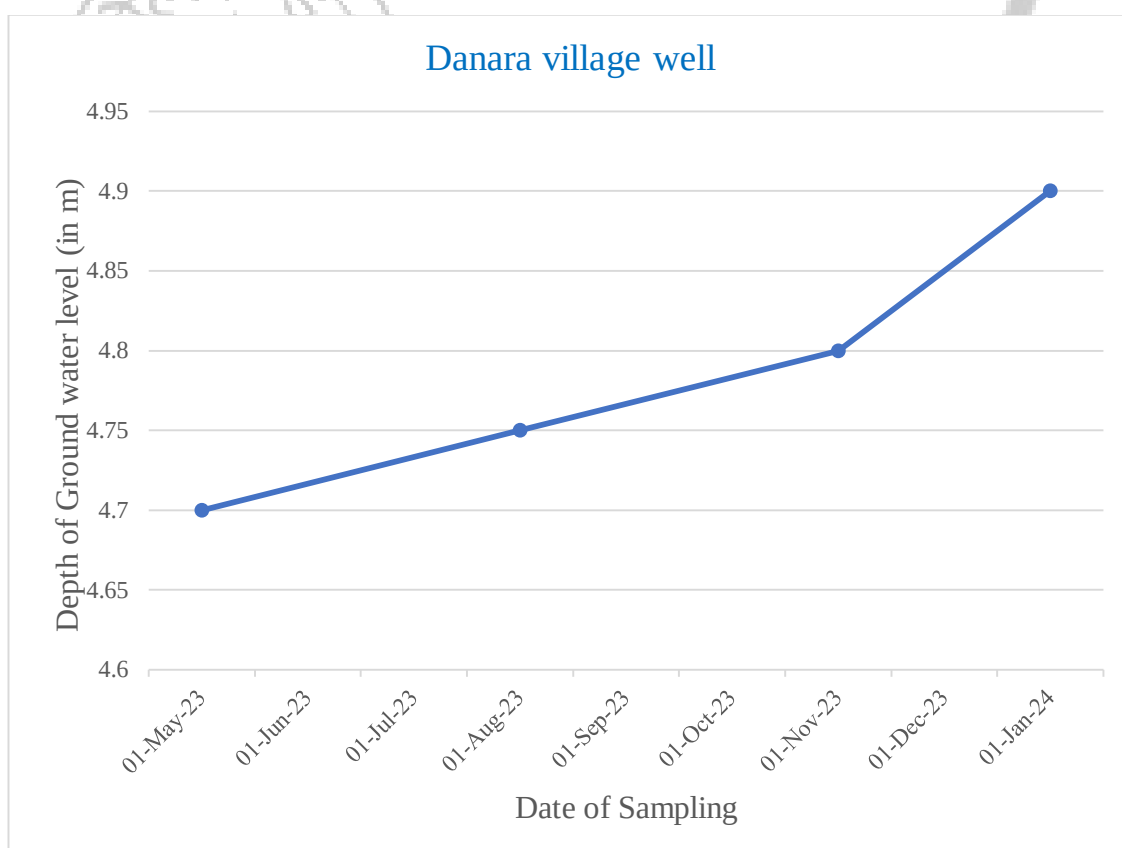


Table: 120
Area: Hingula
Project: Balaram OCP
Monitoring Station: Nakeiposi village well

Date of sampling	Water level (bgl in meter)
24-May-23	4.5
25-Aug-23	3.3
08-Nov-23	4
24-Jan-24	4.1

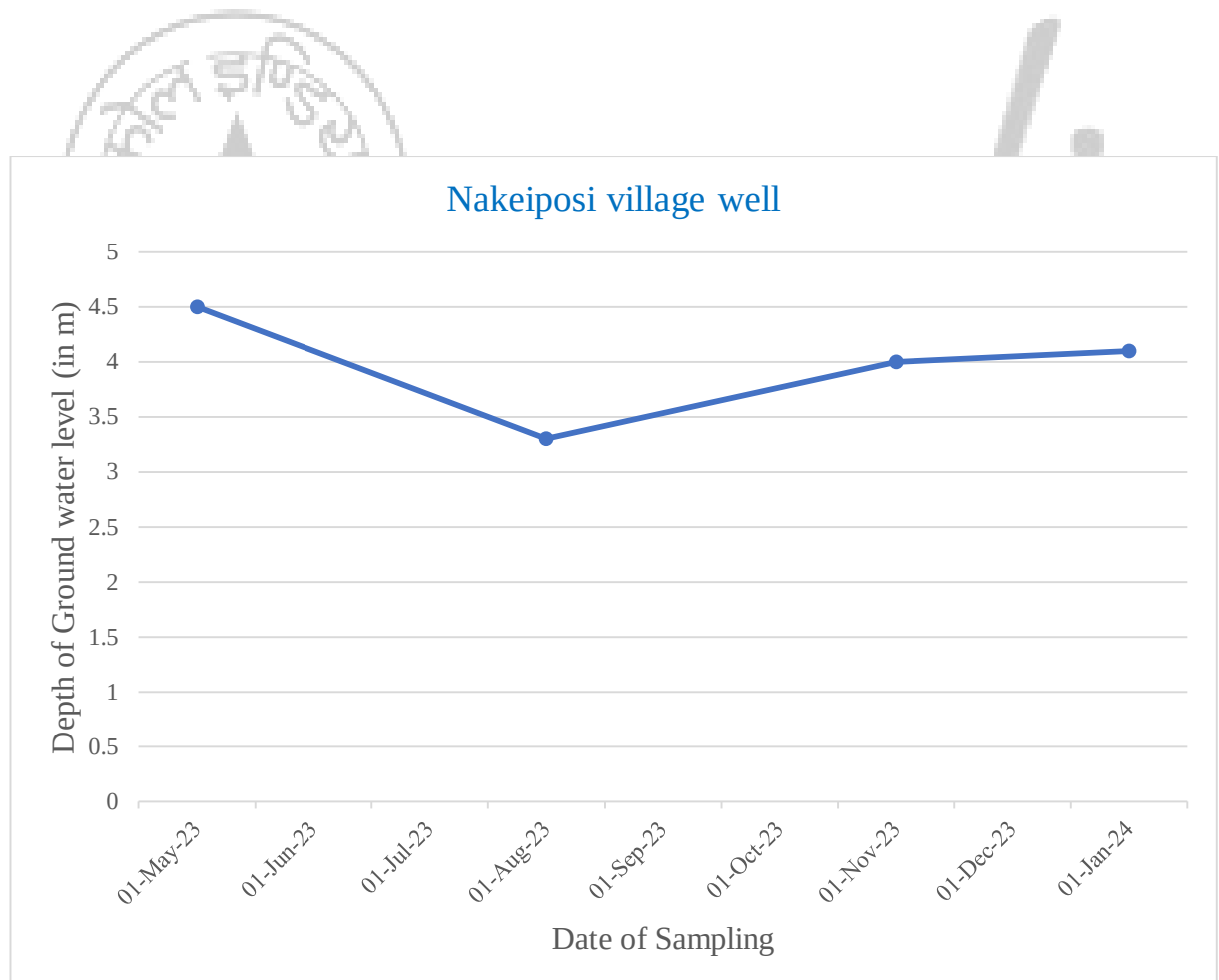


Table: 121
Area: Hingula
Project: Hingula OCP
Monitoring Station: Gopalprasad village well water

Date of sampling	Water level (bgl in meter)
24-May-23	1.2
25-Aug-23	1.15
08-Nov-23	1.87
24-Jan-24	2

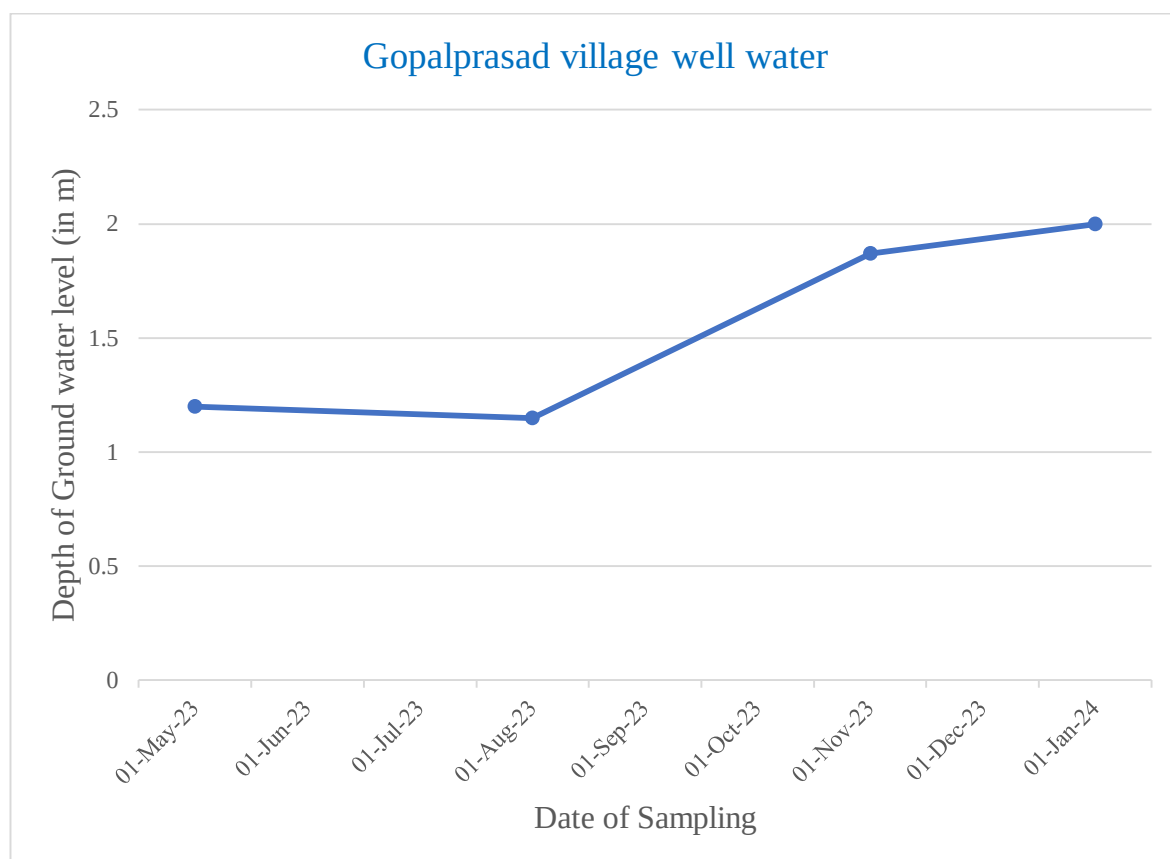


Table: 122
Area: Hingula
Project: Hingula OCP
Monitoring Station: Kusumpal village well

Date of sampling	Water level (bgl in meter)
24-May-23	3
25-Aug-23	1.2
08-Nov-23	1.8
24-Jan-24	1.9

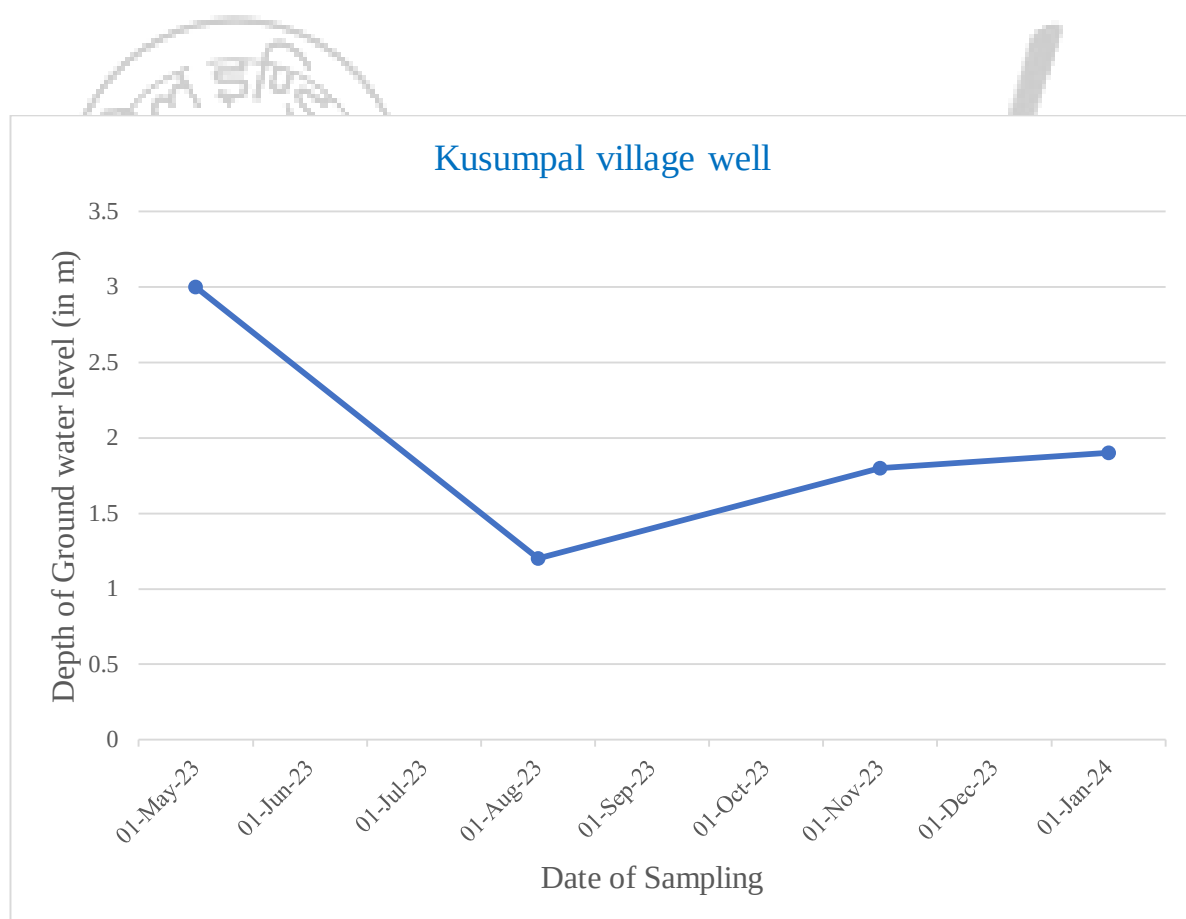


Table: 123
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Dera village well (Reported only)

Date of sampling	Water level (bgl in meter)
22-May-23	3.8
21-Aug-23	1.55
06-Nov-23	2
22-Jan-24	2

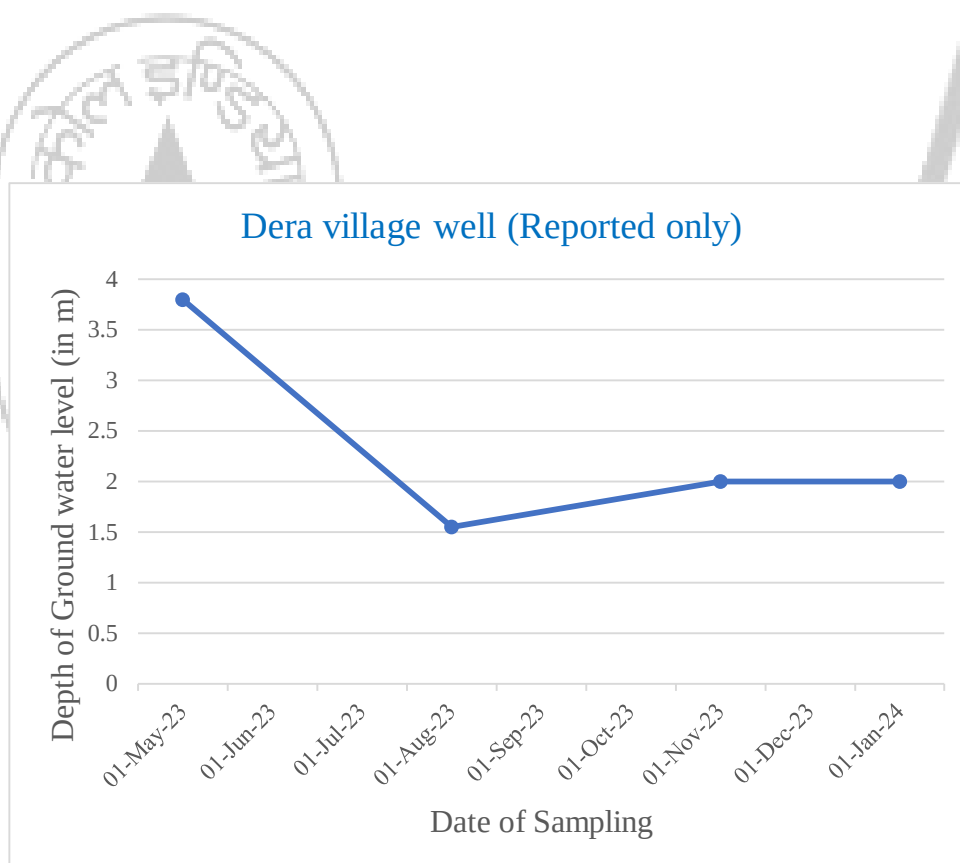


Table:124
Area: Talcher
Project: Deulbera Colliery
Monitoring Station: Deulbera village well (Reported only)

Date of sampling	Water level (bgl in meter)
23-May-23	1.8
22-Aug-23	1.65
07-Nov-23	2.08
23-Jan-24	2

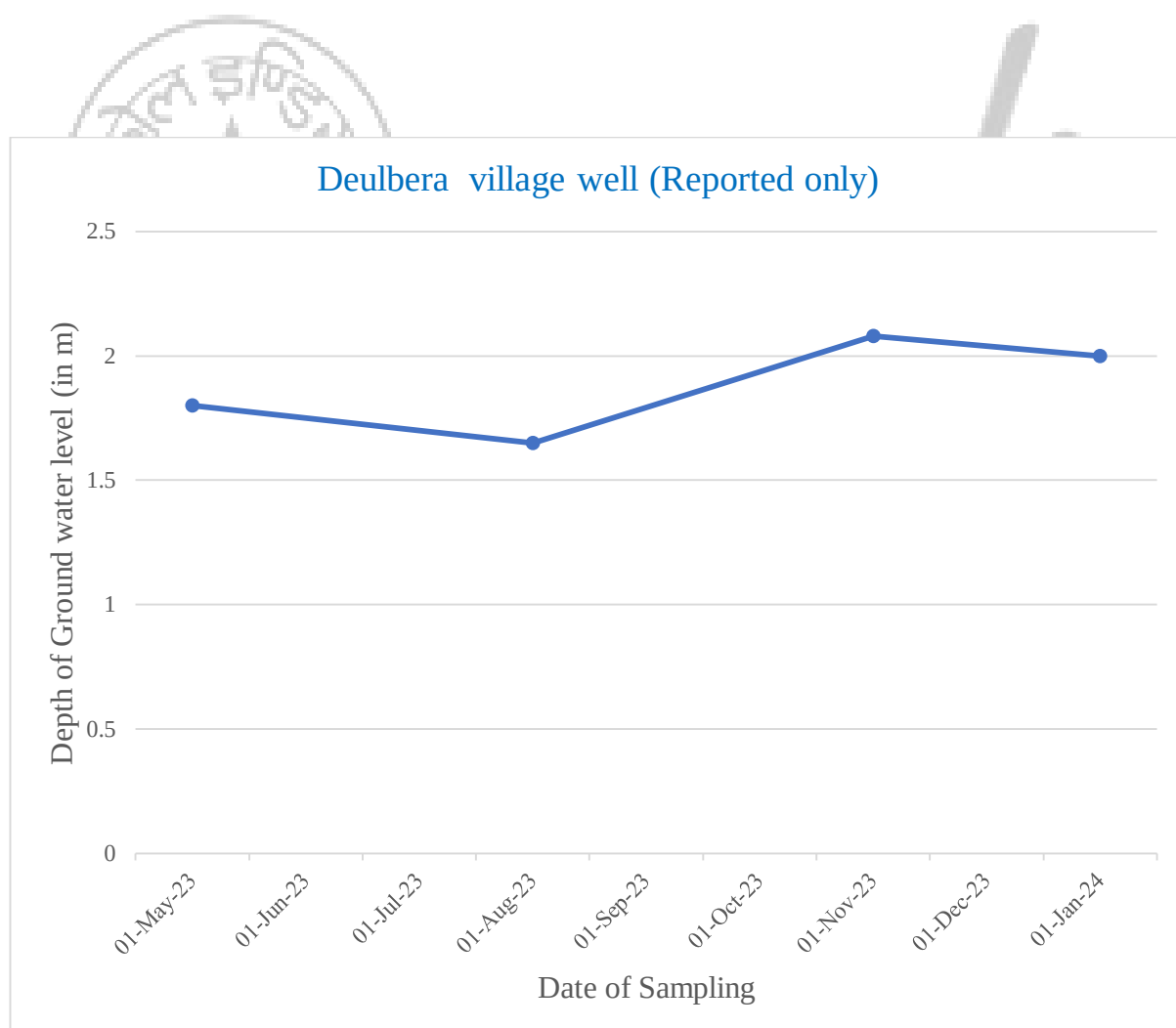
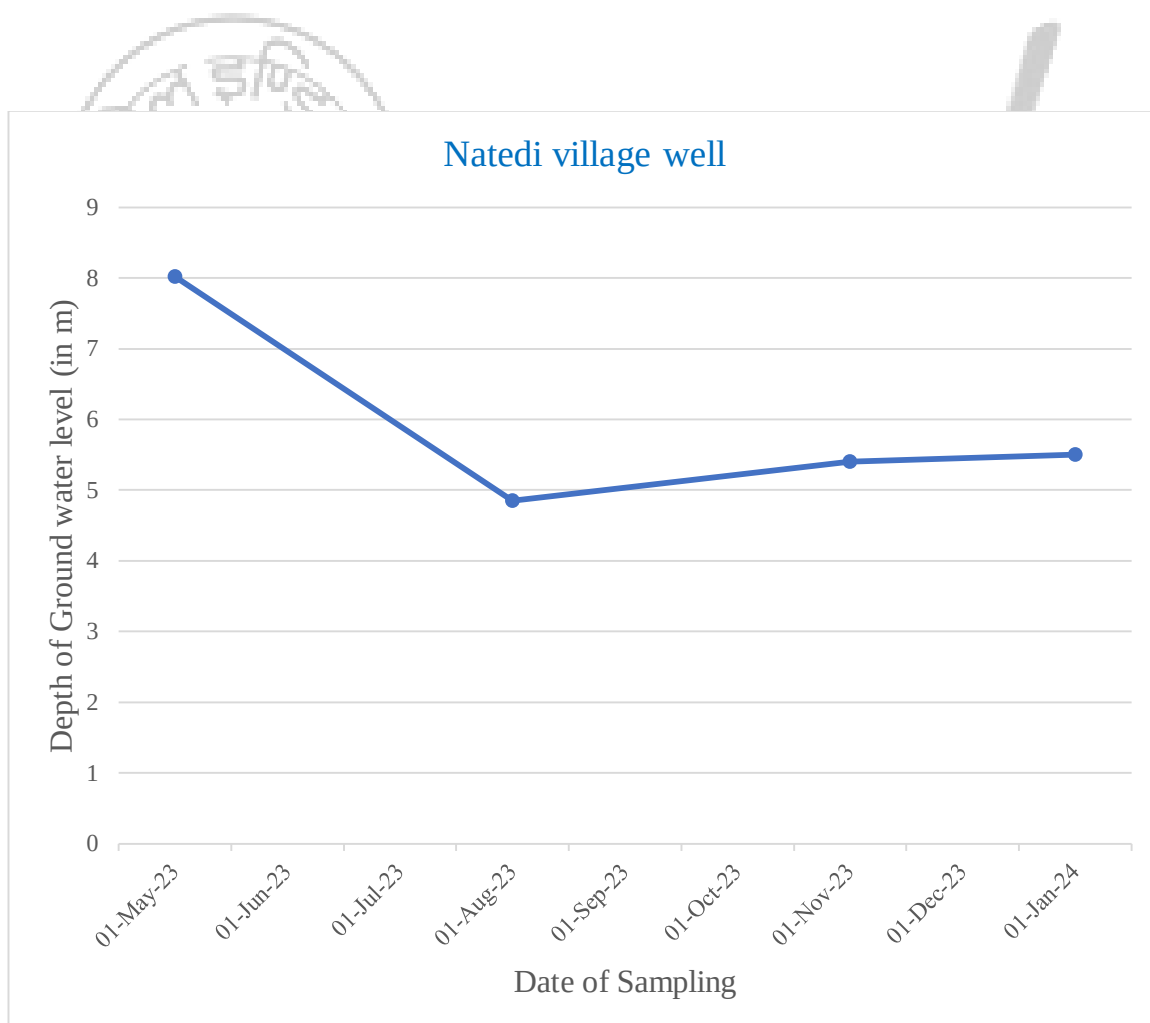


Table: 125
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Natedi village well

Date of sampling	Water level (bgl in meter)
22-May-23	8.02
26-Aug-23	4.85
06-Nov-23	5.4
23-Jan-24	5.5



9.2.4 DRINKING WATER ANALYTICAL RESULTS

Table: 126

Area: Jagannath **Project:** Jagannath OCP

Project / OCP	Jagannath OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Balanda Colony													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	7-Aug-2023	6-Sep-2023	9-Oct-2023	6-Nov-2023	6-Dec-2023	3-Jan-2024	5-Feb-2024	6-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	2	3	2	1	2	1	3	1	2	4	5	15
Turbidity(NTU)	1	2	2	2	1	1	1	2	<1.0	<1.0	2	2	1	5
pH	7.33	7.54	7.82	7.63	7.31	7.72	7.78	7.73	8.04	8.11	8.17	8.10	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	63.6	75.8	84.7	36.2	32.2	24.5	40.8	40.8	52	60	68	80	200	600
Total Hardness (Ca CO3)(mg/L)	97	80	68.6	176.70	117.40	92.62	92.75	157.26	145.35	152.82	179.05	166.89	200	600
Iron(mg/L)	0.12	<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	21.8	25.77	11.89	9.91	7.78	7.78	11.66	7.83	13.70	17.61	21.65	250	1000
Total Dissolve Solid(mg/L)	208	172	194	228	188	170	192	226	198	224	238	220	500	2000
Calcium(mg/L)	24.24	19.39	16.16	41.85	30.83	25.86	32.32	42.02	38.94	41.52	35.13	39.76	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	0.21	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	22.08	28.62	34.32	9.38	59.3	51.67	47.05	77.8	60.39	65.14	62.14	58.64	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	0.39	0.43	0.34	0.40	0.41	0.70	0.72	0.48	0.74	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)	0.16	0.05	<0.04	0.27	0.04	0.04	<0.04	<0.04	0.04	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: 127

Area: Jagannath Project: Jagannath OCP

Project / OCP	Jagannath OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Jagannath Colony													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	7-Aug-2023	6-Sep-2023	9-Oct-2023	6-Nov-2023	6-Dec-2023	3-Jan-2024	5-Feb-2024	6-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	1	2	3	3	2	1	2	3	2	4	3	5	15
Turbidity(NTU)	1	2	2	2	2	2	2	2	1.8	1.72	2.00	3	1	5
pH	7.44	7.69	7.43	7.56	7.46	7.82	7.75	7.65	8.02	7.93	7.84	7.92	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	67.8	84.7	98.1	40.2	32.2	28.6	40.8	40.8	60	88	96	104	200	600
Total Hardness (Ca CO ₃)(mg/L)	85	100	96.80	164.66	170.03	120.80	173.39	104.84	226.11	213.14	230.77	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	25.77	29.73	9.91	11.89	7.78	9.72	9.72	9.78	13.70	15.66	19.68	250	1000
Total Dissolve Solid(mg/L)	172	208	226	248	254	220	276	212	328	348	374	356	500	2000
Calcium(mg/L)	25.86	30.71	33.94	40.24	47.06	35.55	54.95	35.55	60.04	62.28	59.08	62.03	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	0.32	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	26.42	31.74	28.63	84.38	79.8	77.05	81.80	54.88	179.2	142.9	132.54	120.28	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	0.58	0.37	0.31	0.32	0.45	0.84	0.88	0.70	0.60	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	0.06	<0.04	0.07	<0.04	0.08	0.05	<0.04	0.19	0.04	0.47	<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:128

Area: Jagannath Project: Jagannath OCP

Project / OCP	Jagannath OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Rakas Village Well Water													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	7-Aug-2023	6-Sep-2023	9-Oct-2023	6-Nov-2023	6-Dec-2023	3-Jan-2024	5-Feb-2024	6-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	3	1	2	4	1	2	3	2	4	3	2	5	15
Turbidity(NTU)	3	3	3	2	1	2	2	1	1.8	1.62	2	2	1	5
pH	8.13	7.95	7.61	7.80	7.63	7.95	7.80	7.71	8.06	7.98	7.79	7.65	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	139.9	160.6	169.5	36.2	36.2	65.3	49	44.9	56	64	72	84	200	600
Total Hardness (Ca CO ₃)(mg/L)	230	213	201.6	132.53	141.69	153.02	145.17	129.04	197.84	189.02	183.02	174.84	200	600
Iron(mg/L)	0.12	<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)	82.95	75.32	71.35	7.93	11.89	44.71	11.66	9.72	11.74	15.65	13.70	17.71	250	1000
Total Dissolve Solid(mg/L)	596	548	516	238	224	288	264	252	244	268	284	258	500	2000
Calcium(mg/L)	74.34	71.11	64.64	30.58	43.81	42.02	42.02	46.87	51.93	57.48	54.29	57.26	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	0.07	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	28.72	34.54	38.12	81.88	47.8	55.51	79.62	61.22	59.74	65.45	61.24	54.16	200	400
Nitrate(mg/L)	14.86	15.46	17.28	18.22	17.9	17.48	16.72	16.14	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.52	0.30	0.33	0.32	0.36	0.89	0.69	0.63	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)	0.24	0.10	0.05	0.17	0.04	0.17	<0.04	<0.04	0.04	0.17	<0.04	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:129

Area: Jagannath Project: Ananta OCP

Project / OCP	Ananta OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Ananta Colony													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	7-Aug-2023	6-Sep-2023	9-Oct-2023	6-Nov-2023	6-Dec-2023	3-Jan-2024	5-Feb-2024	6-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	4	3	1	1	1	1	3	1	1	2	1	5	15
Turbidity(NTU)	1	2	2	1	1	1	1	1	<1.0	<1.0	1	1	1	5
pH	7.28	7.37	7.25	7.33	7.71	7.78	7.65	7.78	7.21	7.35	7.48	7.33	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	59.4	71.4	80.3	32.2	24.1	24.5	32.6	44.9	60	68	76	88	200	600
Total Hardness (Ca CO3)(mg/L)	109	108	104.8	84.34	60.73	72.48	92.75	60.49	52.49	60.32	51.72	66.55	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	19.82	25.77	7.93	9.91	7.78	50.54	5.83	37.18	25.23	33.27	29.52	250	1000
Total Dissolve Solid(mg/L)	164	190	202	160	134	142	196	146	134	158	204	212	500	2000
Calcium(mg/L)	35.55	38.79	35.55	16.10	19.47	22.63	29.09	14.55	12.98	14.37	17.56	15.90	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)	18.72	16.42	19.32	62.25	30.4	36.41	20.77	17.8	10.39	12.38	16.26	18.42	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	14.79	14.52	14.2	13.6	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.42	0.45	0.37	0.33	0.45	0.50	0.72	0.55	0.52	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)	0.09	0.19	0.06	0.06	0.05	<0.04	0.15	<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:130

Area: Jagannath Project: Ananta OCP

Project / OCP	Ananta OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Dera Village Tube Well Water													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	7-Aug-2023	6-Sep-2023	9-Oct-2023	7-Nov-2023	6-Dec-2023	3-Jan-2024	5-Feb-2024	6-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	3	2	3	2	2	2	2	2	2	4	3	5	15
Turbidity(NTU)	2	2	2	2	2	1	2	2	<1.0	<1.0	1	2	1	5
pH	7.82	7.66	7.39	7.48	7.78	8.04	7.96	7.69	7.94	8.03	7.95	7.77	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	89	98	89.2	64.3	64.3	24.5	65.3	53	44	56	60	72	200	600
Total Hardness (Ca CO ₃)(mg/L)	121	133	116.9	184.74	145.74	68.46	153.23	181.46	141.32	148.80	143.24	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	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	19.75	23.78	19.82	41.62	43.60	7.78	42.77	42.77	45.01	41.10	37.18	33.46	250	1000
Total Dissolve Solid(mg/L)	214	214	208	234	248	130	298	314	268	252	274	262	500	2000
Calcium(mg/L)	38.79	38.79	33.94	40.24	47.06	17.78	45.25	63.03	40.57	44.71	51.1	47.71	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<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	0.74	<0.04	0.1	0.3
Sulphate(mg/L)	16.24	21.36	24.36	39.50	47.8	29.62	62.69	62.93	41.82	48.45	44.36	40.64	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	21.36	21.0	19.8	18.46	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.31	0.30	0.31	0.40	0.40	0.67	0.48	0.36	0.38	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	0.22	0.07	0.24	0.2	<0.04	0.11	0.07	0.04	<0.04	1.41	<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:131

Area: Bharatpur **Project:** Bharatpur OCP

Project / OCP	Bharatpur OCP					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Tap water in Nehru Satabdi Nagar A Type Quarters					
Date of Sampling	9-May-2023	7-Aug-2023	7-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	2	1	1	2	5	15
Turbidity(NTU)	3	2	2	1	1	5
pH	7.56	8.24	7.58	7.73	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	116.0	152.8	32.6	44	200	600
Total Hardness (Ca CO3)(mg/L)	165	141.69	185.49	175.07	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	23.78	13.87	9.72	11.74	250	1000
Total Dissolve Solid(mg/L)	256	286	256	268	500	2000
Calcium(mg/L)	50.1	35.70	69.49	65.47	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)	29.17	10.0	88.78	84.3	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.33	0.45	0.47	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	0.24	0.10	0.20	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:132

Area: Bharatpur

Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standard (IS-10500):2012	
Monitoring Station	Tap water in Nehru Satabdi Nagar B Type Quarters					
Date of Sampling	9-May-2023	7-Aug-2023	7-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	4	2	2	1	5	15
Turbidity(NTU)	3	1	1	1	1	5
pH	7.37	7.87	7.37	7.46	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	124.9	24.1	12.2	20	200	600
Total Hardness (Ca CO3)(mg/L)	201	149.79	68.55	71.62	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	31.71	11.89	38.88	33.27	250	1000
Total Dissolve Solid(mg/L)	318	246	138	152	500	2000
Calcium(mg/L)	59.8	42.19	22.63	23.95	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)	43.96	76.8	17.44	21.18	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.45	0.30	0.82	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	0.14	0.06	1.33	5	15
Total Chromium (mg/L)	<0.1	<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:133

Area: Bharatpur

Project: Bharatpur OCP

Project / OCP	Bharatpur OCP					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Tap water in Nehru Satabdi Nagar C Type Quarters					
Date of Sampling	9-May-2023	7-Aug-2023	7-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	4	1	3	3	5	15
Turbidity(NTU)	2	1	2	1	1	5
pH	7.46	8.27	7.44	7.54	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	102.6	144.7	32.6	48.0	200	600
Total Hardness (Ca CO3)(mg/L)	100	133.60	185.49	171.09	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	27.75	13.87	13.61	15.66	250	1000
Total Dissolve Solid(mg/L)	268	292	282	296	500	2000
Calcium(mg/L)	27.47	34.08	67.88	62.28	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)	28.31	8.4	105.24	98.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.43	0.33	0.63	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	0.28	0.04	0.05	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:134

Area: Bharatpur Project: Bharatpur OCP

Project / OCP	Bharatpur OCP					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Tap water in Nehru Satabdi Nagar Transit House					
Date of Sampling	9-May-2023	7-Aug-2023	7-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	2	1	3	5	15
Turbidity(NTU)	2	1	2	2	1	5
pH	7.54	7.85	8.22	8.28	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	116.0	24.1	155	164	200	600
Total Hardness (Ca CO3)(mg/L)	201	89.06	169.36	183.02	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	19.82	49.55	13.61	17.61	250	1000
Total Dissolve Solid(mg/L)	254	174	294	314	500	2000
Calcium(mg/L)	38.79	29.21	51.72	57.48	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)	32.81	19.0	10.6	14.38	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.31	0.40	0.68	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)	0.09	0.19	0.22	0.05	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:135

Area: Bharatpur Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standard (IS-10500): 2012	
Monitoring Station	Joragadia Village Open Well					
Date of Sampling	9-May-2023	7-Aug-2023	7-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	3	1	2	5	15
Turbidity(NTU)	2	1	2	1	1	5
pH	7.28	7.95	8.34	8.29	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	107.0	52.3	142.8	148	200	600
Total Hardness (Ca CO ₃)(mg/L)	96	89.06	153.23	143.24	200	600
Iron(mg/L)	<01.	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	23.78	9.91	13.61	15.66	250	1000
Total Dissolve Solid(mg/L)	218	184	288	270	500	2000
Calcium(mg/L)	35.55	29.21	56.56	51.1	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	0.29	0.1	0.3
Sulphate(mg/L)	26.32	28.4	13.54	15.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.36	0.32	0.53	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)	0.1	<0.04	0.06	0.73	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: Bharatpur Project: Bharatpur OCP

Project / OCP	Bharatpur OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Time Office, BOCP													
Date of Sampling	11-Apr-2023	9-May-2023	9-Jun-2023	11-Jul-2023	7-Aug-2023	6-Sep-2023	10-Oct-2023	7-Nov-2023	7-Dec-2023	3-Jan-2024	6-Feb-2024	6-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	3	4	1	1	1	3	2	2	1	2	5	15
Turbidity(NTU)	1	2	1	3	2	2	3	1	<1.0	<1.0	1	2	1	5
pH	7.57	7.73	7.55	7.18	7.69	8.22	7.67	8.11	8.28	8.19	8.26	8.12	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	84.8	102.6	93.7	12.1	20.1	65.3	32.6	85.7	108	104	112	104	200	600
Total Hardness (Ca CO3)(mg/L)	109	100	76.6	325.30	125.50	181.21	229.85	104.84	125.17	136.73	139.26	151.00	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)	17.78	21.8	17.84	13.87	9.91	52.49	21.38	9.72	17.61	19.57	21.53	17.71	250	1000
Total Dissolve Solid(mg/L)	226	244	190	388	238	296	310	194	196	208	228	242	500	2000
Calcium(mg/L)	30.71	24.24	22.63	74.04	32.45	59.80	63.03	35.55	32.45	39.92	41.52	38.17	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)	26.78	31.26	34.96	48.88	57.8	50.64	133.34	8.41	10.65	4.36	8.16	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	0.39	0.34	0.42	0.38	0.34	0.89	0.36	0.40	0.41	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	0.08	0.07	0.10	0.07	0.24	0.41	<0.04	0.05	0.42	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:137

Area: Bharatpur Project: Bharatpur OCP

Project / OCP	Bharatpur OCP				Indian Drinking Standard (IS-10500):2012	
Monitoring Station	Taleipasi Village Open Well				Acceptable	Permissible
Date of Sampling	9-May-2023	7-Aug-2023	7-Nov-2023	6-Feb-2024	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	5	15
Turbidity(NTU)	2	1	2	2	1	5
pH	8.15	7.91	8.30	8.34	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	102.6	28.1	179.5	176	200	600
Total Hardness (Ca CO ₃)(mg/L)	104	76.92	201.62	202.92	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	23.78	27.75	62.21	56.75	250	1000
Total Dissolve Solid(mg/L)	238	144	364	388	500	2000
Calcium(mg/L)	37.17	21.09	72.73	67.07	75	200
Copper(mg/L)	<0.03	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.11	<0.04	0.1	0.3
Sulphate(mg/L)	28.12	17.3	24.39	21.34	200	400
Nitrate(mg/L)	<2	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.37	0.36	0.48	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)	0.1	0.25	0.11	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:138

Area: Lingraj Project: Lingraj OCP

Project / OCP	Lingraj OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	GM Office, Lingraj Area													
Date of Sampling	11-Apr-2023	9-May-2023	9-Jun-2023	10-Jul-2023	8-Aug-2023	7-Sep-2023	10-Oct-2023	8-Nov-2023	7-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	3	1	3	2	2	4	2	2	2	3	5	15
Turbidity(NTU)	1	2	2	2	2	1	1	1	<1.0	<1.0	1	2	1	5
pH	7.66	7.83	7.69	7.81	8.41	7.78	7.91	8.03	7.45	7.61	8.15	8.01	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	80.6	89.2	102.6	44.2	277.4	57.1	49	53	12	24	64	72	200	600
Total Hardness (Ca CO3)(mg/L)	113	120	121.0	92.37	271.24	108.72	76.62	80.65	52.49	60.32	95.49	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)	15.8	17.83	23.78	9.91	112.97	15.55	9.72	9.72	37.18	31.31	11.74	15.74	250	1000
Total Dissolve Solid(mg/L)	216	206	228	268	484	208	168	182	132	148	198	216	500	2000
Calcium(mg/L)	38.79	33.94	25.86	20.93	84.38	29.09	21.01	25.86	11.36	14.37	30.34	33.4	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	0.11	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	22.34	26.72	26.31	165	56.9	42.44	30.51	29.15	55.06	62.15	32.24	30.28	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	14.96	14.56	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.43	0.45	0.39	0.40	0.37	0.44	0.60	0.46	0.53	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)	0.09	0.10	0.09	0.75	0.05	0.04	0.04	<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:139

Area: Lingraj Project: Lingraj OCP

Project / OCP	Lingraj OCP					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Balunga Khamar Village Well					
Date of Sampling	9-May-2023	8-Aug-2023	8-Nov-2023	7-Feb-2024	Acceptable	Permissible
Colour(Hazen)	2	2	3	4	5	15
Turbidity(NTU)	3	1	1	1	1	5
pH	7.91	8.10	7.89	7.74	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	125	52.3	69.4	76	200	600
Total Hardness (Ca CO3)(mg/L)	213	85.02	76.62	67.64	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	37.66	13.87	9.72	13.70	250	1000
Total Dissolve Solid(mg/L)	330	148	170	188	500	2000
Calcium(mg/L)	79.19	22.72	25.86	22.36	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)	27.31	45.3	16.71	18.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.74	0.4	0.37	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)	0.100	0.09	<0.04	0.11	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:140

Area: Lingraj Project: Lingraj OCP

Project / OCP	Lingraj OCP					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Deulbera Village Well					
Date of Sampling	9-May-2023	8-Aug-2023	8-Nov-2023	7-Feb-2024	Acceptable	Permissible
Colour(Hazen)	2	2	2	2	5	15
Turbidity(NTU)	3	3	3	2	1	5
pH	8.03	8.40	7.78	7.92	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	258.7	164.8	293.8	276	200	600
Total Hardness (Ca CO3)(mg/L)	293	263.15	322.59	330.24	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	27.75	41.62	93.31	90.02	250	1000
Total Dissolve Solid(mg/L)	528	428	574	594	500	2000
Calcium(mg/L)	103.43	74.64	109.90	113.37	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)	42.15	68.1	68.29	64.28	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.47	0.37	0.82	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)	0.100	0.04	0.04	0.36	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:141

Area: Lingraj Project: Lingraj OCP

Project / OCP	Lingraj OCP					Indian Drinking Standard (IS-10500) : 2012
Monitoring Station	Talabera Village Well					
Date of Sampling	9-May-2023	8-Aug-2023	8-Nov-2023	7-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	1	1	2	5	15
Turbidity(NTU)	3	1	3	2	1	5
pH	8.15	7.98	8.08	8.15	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	129.3	24.1	322.3	308	200	600
Total Hardness (Ca CO ₃)(mg/L)	265	97.16	370.98	354.11	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	29.78	49.55	91.37	88.06	250	1000
Total Dissolve Solid(mg/L)	360	186	638	654	500	2000
Calcium(mg/L)	100.20	30.83	117.98	121.36	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)	11.38	15.5	73.90	66.74	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.40	0.40	0.66	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)	0.100	0.12	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:142

Area: Lingraj Project: Lingraj OCP

Project / OCP	Lingraj OCP					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Kankili Village					
Date of Sampling	9-May-2023	8-Aug-2023	8-Nov-2023	7-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	2	2	1	5	15
Turbidity(NTU)	2	1	1	1	1	5
pH	7.69	8.02	7.96	8.06	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	89.2	24.1	44.9	52	200	600
Total Hardness (Ca CO3)(mg/L)	80	56.68	64.52	63.66	200	600
Iron(mg/L)	<0.1	<0.01	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	17.84	9.91	9.72	11.74	250	1000
Total Dissolve Solid(mg/L)	224	114	134	148	500	2000
Calcium(mg/L)	25.86	16.23	21.01	20.76	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)	30.15	28.4	17.8	19.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.42	0.45	0.33	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	0.18	0.05	0.26	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:143

Area: Kaniha

Project: Kaniha OCP

Project / OCP	Kaniha					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Telisinga Well water					
Date of Sampling	10-May-2023	8-Aug-2023	8-Nov-2023	8-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	1	2	3	5	15
Turbidity(NTU)	2	2	2	1	1	5
pH	7.69	8.12	8.21	8.15	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	89.2	72.4	114.2	120	200	600
Total Hardness (Ca CO ₃)(mg/L)	80	145.74	177.43	175.07	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	17.84	15.86	23.33	23.48	250	1000
Total Dissolve Solid(mg/L)	224	236	282	298	500	2000
Calcium(mg/L)	25.86	42.19	67.88	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)	30.15	15.9	20.24	22.36	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	0.32	0.33	0.72	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	0.06	0.11	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
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:144

Area: Kaniha

Project: Kaniha

Project / OCP	Kaniha					Indian Drinking Standard (IS-10500):2012
Monitoring Station	Jarda Village Well Water					
Date of Sampling	10-May-2023	8-Aug-2023	8-Nov-2023	8-Feb-2024	Acceptable	Permissible
Colour(Hazen)	3	2	1	2	5	15
Turbidity(NTU)	3	2	1	1	1	5
pH	8.04	8.32	8.10	8.03	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	138.2	168.8	61.2	56	200	600
Total Hardness (Ca CO3)(mg/L)	253	226.71	100.81	83.55	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	85.23	57.48	11.66	9.78	250	1000
Total Dissolve Solid(mg/L)	424	420	206	184	500	2000
Calcium(mg/L)	92.12	73.02	27.47	27.15	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)	38.17	41.5	14.88	16.24	200	400
Nitrate(mg/L)	12.52	12.32	11.76	11.2	45	No relaxation
Fluoride(mg/L)	<0.3	0.38	0.36	0.45	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)	0.14	0.06	<0.04	0.22	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:145

Area: Hingula Project: Hingula OCP

Project / OCP	Hingula OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Time Office Water													
Date of Sampling	12-Apr-2023	10-May-2023	10-Jun-2023	12-Jul-2023	9-Aug-2023	8-Sep-2023	11-Oct-2023	9-Nov-2023	8-Dec-2023	6-Jan-2024	8-Feb-2024	8-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	2	2	1	2	4	3	4	2	2	2	5	15
Turbidity(NTU)	2	3	2	2	2	2	2	2	10.5	8.68	1	2	1	5
pH	7.59	7.74	7.92	8.06	8.27	8.26	8.44	8.21	7.76	7.92	7.65	7.78	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	76.3	107.0	116	108.5	104.5	110.2	228.5	110.2	96	108	116	108	200	600
Total Hardness (Ca CO3)(mg/L)	218	205	213.7	160.64	153.84	157.05	173.39	173.39	153.43	144.78	131.30	151.00	200	600
Iron(mg/L)	0.11	<0.1	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	47.4	43.6	39.6	25.77	27.75	29.16	42.77	31.10	25.44	23.48	27.40	25.58	250	1000
Total Dissolve Solid(mg/L)	366	304	318	262	296	316	354	304	228	244	236	224	500	2000
Calcium(mg/L)	69.49	64.64	54.95	37.02	50.30	38.79	38.79	53.33	38.94	35.13	31.94	34.99	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)	23.12	2.48	4.39	36.13	34.0	56.03	11.67	63.05	14.42	18.36	22.48	19.76	200	400
Nitrate(mg/L)	9.46	9.12	10.35	10.59	10.76	10.52	9.80	7.58	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.46	0.41	0.34	0.44	0.48	0.94	0.54	0.53	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)	0.27	0.12	0.09	0.08	0.42	0.38	0.19	0.06	0.15	0.09	0.29	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:146

Area: Hingula

Project: Hingula OCP

Project / OCP	Hingula OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Gopalprasad Village Bore Well Water													
Date of Sampling	12-Apr-2023	10-May-2023	10-Jun-2023	12-Jul-2023	9-Aug-2023	8-Sep-2023	11-Oct-2023	9-Nov-2023	8-Dec-2028	6-Jan-2024	8-Feb-2024	8-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	3	2	3	4	1	3	1	2	1	3	3	5	15
Turbidity(NTU)	2	3	3	2	2	2	2	2	<1.0	<1.0	1	3	1	5
pH	7.44	7.33	7.65	7.76	8.20	8.18	8.42	8.41	8.37	8.21	8.17	8.05	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	93.3	102.6	111.5	213.1	210	216.2	224.4	212.2	196	188	176	164	200	600
Total Hardness (Ca CO3)(mg/L)	161	185	161.3	144.58	161.94	153.02	153.23	173.39	149.39	160.86	167.11	178.81	200	600
Iron(mg/L)	0.11	<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)	29.63	27.75	29.73	39.6	39.64	42.77	40.82	40.82	39.14	41.10	39.14	33.46	250	1000
Total Dissolve Solid(mg/L)	316	280	294	336	264	384	368	342	302	318	342	328	500	2000
Calcium(mg/L)	46.87	38.79	40.40	27.36	32.45	32.32	37.17	45.25	27.59	33.53	38.32	41.35	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	0.19	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	31.76	34.48	28.76	51.88	6.8	13.08	15.64	18.54	14.81	19.15	17.46	15.56	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	0.58	0.41	0.32	0.50	0.43	0.92	0.63	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)	0.24	0.11	0.11	0.06	0.04	0.07	0.18	2.72	0.18	0.08	0.24	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:147

Area: Hingula Project: Hingula OCP

Project / OCP	Hingula OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Kumunda Village Bore Well Water													
Date of Sampling	12-Apr-2023	10-May-2023	10-Jun-2023	12-Jul-2023	9-Aug-2023	8-Sep-2023	11-Oct-2023	9-Nov-2023	8-Dec-2023	6-Jan-2024	8-Feb-2024	8-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	3	4	3	3	2	2	3	3	2	2	2	5	15
Turbidity(NTU)	1	2	3	3	3	3	2	2	<1.0	<1.0	1	3	1	5
pH	7.74	7.87	7.73	7.89	8.18	7.59	8.09	8.37	8.39	8.27	8.21	8.12	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	67.8	80.3	93.7	104.5	156.8	142.8	97.9	322.3	148	156	160	144	200	600
Total Hardness (Ca CO ₃)(mg/L)	129	141	165.3	208.83	319.82	233.55	177.43	274.20	177.65	164.89	151.19	178.81	200	600
Iron(mg/L)	0.13	<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	21.8	25.77	63.42	245.77	95.26	85.54	77.76	17.61	23.48	27.40	23.61	250	1000
Total Dissolve Solid(mg/L)	260	242	256	288	594	426	338	486	254	286	314	336	500	2000
Calcium(mg/L)	46.87	51.72	58.18	54.73	105.47	74.34	66.26	58.18	45.44	41.52	44.71	49.30	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	0.15	<0.04	<0.04	<0.04	<0.04	0.15	<0.04	0.1	0.3
Sulphate(mg/L)	19.74	26.32	22.37	16.25	57.5	39.75	48.72	3.78	36.88	43.14	48.27	44.52	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.85	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.55	0.37	0.31	0.48	0.35	0.95	0.48	0.64	0.63	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)	0.43	0.11	0.1	0.15	0.21	0.08	0.11	0.17	<0.04	<0.04	0.34	0.06	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:148

Area: Hingula Project: Balaram OCP

Project / OCP	Balaram OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Danara Village Borewell Water													
Date of Sampling	12-Apr-2023	10-May-2023	10-Jun-2023	12-Jul-2023	9-Aug-2023	8-Sep-2023	11-Oct-2023	9-Nov-2023	8-Dec-2023	6-Jan-2024	8-Feb-2024	8-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	2	3	2	3	3	2	3	1	3	2	1.0	5	15
Turbidity(NTU)	1	2	2	3	2	2	1	1	<1.0	<1.0	1	1	1	5
pH	7.59	7.38	7.51	7.59	8.07	7.74	7.76	7.38	7.20	7.33	7.27	7.41	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	63.6	75.8	66.9	76.4	76.4	81.6	40.8	57.1	12	20	28	32	200	600
Total Hardness (Ca CO3)(mg/L)	113	108	108.9	224.90	198.37	161.07	391.14	100.81	52.49	60.32	59.68	71.52	200	600
Iron(mg/L)	0.13	<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	21.8	27.75	31.71	25.27	19.44	11.66	29.35	25.44	21.53	17.71	250	1000
Total Dissolve Solid(mg/L)	240	222	208	274	306	272	456	190	98	108	124	152	500	2000
Calcium(mg/L)	33.94	37.17	38.79	46.68	55.17	45.25	87.27	32.32	14.60	19.16	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	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	21.86	15.48	28.37	40.50	48.0	51.54	157.70	41.22	9.87	7.38	9.26	6.24	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	15.15	14.86	12.8	12.3	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.73	0.46	0.53	0.34	0.45	0.35	0.34	0.39	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)	0.18	0.10	0.09	0.09	0.05	0.06	<0.04	3.15	0.1	0.06	<0.04	0.1	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:149

Area: Hingula Project: Balaram OCP

Project / OCP	Balaram OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Balaram Colony													
Date of Sampling	12-Apr-2023	10-May-2023	10-Jun-2023	12-Jul-2023	9-Aug-2023	8-Sep-2023	11-Oct-2023	9-Nov-2023	8-Dec-2023	6-Jan-2024	8-Feb-2024	8-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	2	2	4	1	5	4	4	2.0	5	15
Turbidity(NTU)	1	3	2	3	2	3	3	3	1.9	1.69	2	3	1	5
pH	7.73	7.89	7.74	7.66	7.59	7.83	7.83	7.73	8.04	7.86	7.69	7.83	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	63.6	84.7	98.1	52.3	48.2	49	49	49	60	80	88	96	200	600
Total Hardness (Ca CO3)(mg/L)	137	153	133.1	309.23	259.10	225.50	262.11	282.27	290.71	277.49	282.49	254.31	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	29.73	13.87	15.86	15.55	15.55	15.55	19.57	23.48	25.44	21.65	250	1000
Total Dissolve Solid(mg/L)	222	248	262	364	352	314	372	398	458	436	468	440	500	2000
Calcium(mg/L)	46.87	38.79	33.94	69.21	69.78	61.41	79.19	82.42	77.89	83.03	89.42	93.84	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	0.050	<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)	22.36	28.74	31.55	65.00	110.3	108.47	117.95	143.78	246.8	224.5	208.4	192.8	200	400
Nitrate(mg/L)	11.46	11.86	12.19	12.76	12.8	12.46	11.76	11.64	<2.0	<2.0	<2.0	<2.0	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.59	0.36	0.44	0.32	0.3	0.84	0.48	0.77	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)	0.12	0.12	0.08	0.19	0.07	0.04	0.12	0.07	<0.04	0.2	0.33	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

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Area: Hingula Project: Balaram OCP

Project / OCP	Balaram OCP													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Nakeipasi Village Bore Well Water													
Date of Sampling	12-Apr-2023	10-May-2023	10-Jun-2023	12-Jul-2023	9-Aug-2023	8-Sep-2023	11-Oct-2023	9-Nov-2023	8-Dec-2023	6-Jan-2024	8-Feb-2024	8-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	3	3	2	2	1	2	2	5	3	2	4.0	5	15
Turbidity(NTU)	1	2	2	1	3	1	3	3	4.1	3.92	3	3	1	5
pH	7.92	7.71	7.47	7.73	7.73	7.94	7.76	8.05	7.86	7.61	7.47	7.61	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	72.1	80.3	89.2	16.1	20.1	16.3	40.8	114.2	108	120	112	120	200	600
Total Hardness (Ca CO3)(mg/L)	109	104	108.9	80.32	542.49	72.48	399.21	391.14	343.20	325.75	330.24	298.02	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.21	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	27.65	23.78	21.72	47.57	19.82	46.66	17.5	58.3	58.71	52.84	48.92	43.30	250	1000
Total Dissolve Solid(mg/L)	214	216	206	268	586	148	472	562	518	548	522	486	500	2000
Calcium(mg/L)	33.94	37.17	32.32	20.93	108.72	22.63	88.89	129.29	115.21	114.97	124.55	101.79	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	0.21	<0.04	<0.04	0.07	0.28	0.49	0.62	<0.04	0.31	0.1	0.3
Sulphate(mg/L)	29.48	26.18	26.76	120.00	118.1	19.23	161.54	134.27	205.2	183.6	168.46	152.64	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	0.39	0.32	0.32	0.36	0.38	0.70	0.72	0.56	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)	0.12	0.12	0.11	0.14	0.22	0.26	0.10	1.17	2.1	1.57	0.32	1.15	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

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Area: Talcher

Project: Talcher U/G

Project / OCP	Talcher U/G													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Canteen Water, GM Office													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	10-Aug-2023	9-Sep-2023	12-Oct-2023	6-Nov-2023	9-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	2	2	1	3	1	2	1	2	3	3	5	15
Turbidity(NTU)	2	3	3	2	1	1	2	1	<1.0	<1.0	1	1	1	5
pH	7.83	7.96	7.80	7.95	7.69	8.18	7.60	7.81	8.11	7.96	7.76	7.89	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	118.7	33.8	124.9	16.1	8.0	40.8	89.8	16.3	44	48	56	68	200	600
Total Hardness (Ca CO3)(mg/L)	181	165	169.4	132.53	44.53	60.40	169.36	88.71	52.49	60.32	63.66	83.45	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)	29.63	25.77	21.72	43.6	29.73	9.72	77.76	40.82	3.91	7.83	11.74	15.74	250	1000
Total Dissolve Solid(mg/L)	326	288	312	174	102	126	328	146	86	102	128	146	500	2000
Calcium(mg/L)	38.79	40.4	37.17	33.80	12.98	14.55	63.03	25.86	11.36	11.18	14.37	17.50	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	0.05	<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)	40.84	39.16	36.94	14.88	33.6	16.03	46.41	23.05	15.45	22.48	24.36	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	0.35	0.35	0.36	0.45	0.34	0.89	0.48	0.42	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)	0.08	0.12	0.12	0.07	<0.04	<0.04	0.31	0.12	<0.04	<0.04	0.18	<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

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Area: Talcher Project: Talcher U/G

Project / OCP	Talcher U/G													Indian Drinking
Monitoring Station	Canteen , Talcher Colliery													Standard (IS-10500):2012
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	10-Aug-2023	9-Sep-2023	12-Oct-2023	6-Nov-2023	9-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	3	1	4	1	2	1	1	2	1	2	3	5	15
Turbidity(NTU)	2	2	3	1	1	1	2	2	<1.0	<1.0	1	2	1	5
pH	7.76	7.56	7.33	7.86	7.97	8.04	7.55	7.93	8.31	8.23	8.15	8.06	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	67.8	75.8	93.6	92.5	229.1	40.8	24.5	49.0	108	116	108	100	200	600
Total Hardness (Ca CO3)(mg/L)	141	120	133.1	120.48	125.50	153.02	120.97	274.20	117.09	124.67	139.26	131.13	200	600
Iron(mg/L)	0.11	<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	19.82	25.77	27.75	31.71	27.22	46.66	15.55	15.65	19.57	15.66	11.81	250	1000
Total Dissolve Solid(mg/L)	192	218	234	218	308	268	214	326	214	248	264	254	500	2000
Calcium(mg/L)	32.32	30.71	27.47	24.14	30.83	37.17	31.17	79.19	32.45	36.73	38.32	39.76	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	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	0.09	<0.04	<0.04	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	33.48	20.36	18.69	24.32	16.23	89.88	23.85	111.95	36.88	44.61	38.42	34.12	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	0.41	0.41	0.45	0.41	0.43	0.86	0.46	0.48	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)	0.19	0.12	0.1	0.05	<0.04	0.09	0.33	1.18	<0.04	0.06	0.19	<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

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Area: Talcher

Project: Nandira U/G

Project / OCP	Nandira U/G													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Canteen , Nandira Colliery													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	10-Aug-2023	9-Sep-2023	12-Oct-2023	6-Nov-2023	9-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	1	1	2	1	2	1	3	1	1	2	4	2	5	15
Turbidity(NTU)	1	2	2	1	1	2	1	2	<1.0	<1.0	1	1	1	5
pH	7.34	7.16	7.79	7.46	7.59	7.86	7.64	8.43	7.57	7.69	7.49	7.33	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	72.1	80.3	75.8	72.4	205	49	24.5	306	12	20	28	32	200	600
Total Hardness (Ca CO3)(mg/L)	105	112	96.8	100.40	93.11	173.15	84.68	282.27	48.45	40.22	51.72	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)	15.8	17.8	19.82	21.80	28.77	15.55	46.66	71.93	37.18	35.23	29.35	25.58	250	1000
Total Dissolve Solid(mg/L)	228	204	172	204	302	282	194	458	116	120	138	168	500	2000
Calcium(mg/L)	29.09	27.47	25.86	28.97	22.72	46.87	30.71	54.95	12.98	11.18	14.37	17.50	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	0.05	<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)	39.48	25.86	21.54	25.14	23.45	86.67	21.28	6.22	9.61	7.85	9.26	8.72	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	15.21	14.89	14.20	13.80	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.43	0.45	0.33	0.34	0.46	0.53	0.40	0.37	0.60	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)	0.09	0.12	0.09	0.04	<0.04	0.1	0.19	0.08	0.11	<0.04	0.21	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:154

Area: Talcher Project: Nandira U/G

Project / OCP	Nandira U/G													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Pit Top, Nandira Colliery													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	10-Aug-2023	9-Sep-2023	12-Oct-2023	6-Nov-2023	9-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	1	3	2	3	3	2	3	2	1	1	4	5	15
Turbidity(NTU)	1	3	2	2	2	2	2	1	<1.0	<1.0	1	1	1	5
pH	7.81	7.63	7.50	7.63	7.78	8.22	7.87	7.84	7.41	7.55	7.63	7.52	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	97.5	102.6	116	108.5	197	44.9	28.6	61.2	12.0	16	24	28	200	600
Total Hardness (Ca CO ₃)(mg/L)	161	165	169.4	160.64	182.18	173.15	137.10	100.81	48.45	44.24	55.70	63.58	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)	29.63	31.71	35.68	31.71	27.75	13.61	42.77	13.61	37.18	31.31	27.40	29.52	250	1000
Total Dissolve Solid(mg/L)	254	262	286	268	296	274	240	188	104	118	130	156	500	2000
Calcium(mg/L)	56.56	59.80	54.95	51.51	50.30	46.87	37.17	32.32	12.98	11.18	12.77	19.09	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	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	0.05	0.1	0.3
Sulphate(mg/L)	34.16	18.36	15.32	14.32	13.28	88.08	62.31	32.80	10.00	14.64	12.48	11.62	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	15.17	14.74	14.12	14.6	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.31	0.35	0.36	0.39	0.42	0.47	0.36	0.34	0.40	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)	0.18	0.12	0.08	0.04	<0.04	<0.04	0.11	3.63	<0.04	0.04	0.28	0.07	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:155

Area: Talcher

Project: Deulbera U/G

Project / OCP	Deulbera U/G													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Deulbera Manager Office													
Date of Sampling	12-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	10-Aug-2023	9-Sep-2023	12-Oct-2023	6-Nov-2023	9-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	2	2	3	3	4	2	1	2	2	3	4	2	5	15
Turbidity(NTU)	1	2	2	1	1	2	1	2	<1.0	<1.0	1	1	1	5
pH	7.49	7.31	7.50	7.66	7.80	8.34	7.68	7.71	6.58	6.74	6.92	6.96	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	59.4	66.9	71.4	76.4	100.5	130.6	49	73	12	20	20	24	200	600
Total Hardness (Ca CO3)(mg/L)	125	129	112.9	104.42	117.40	209.39	104.84	141.13	44.41	36.19	63.66	79.47	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)	17.78	21.8	25.77	27.75	25.77	33.05	46.66	23.33	35.23	33.27	29.35	27.55	250	1000
Total Dissolve Solid(mg/L)	186	210	206	214	226	346	226	244	110	106	118	142	500	2000
Calcium(mg/L)	43.64	40.40	38.79	33.80	40.57	54.95	27.47	42.02	11.36	9.58	9.58	12.72	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	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	0.22	<0.04	0.59	<0.04	<0.04	0.1	0.3
Sulphate(mg/L)	24.86	28.31	23.98	28.21	26.23	67.82	30.00	46.95	8.31	6.64	8.24	9.16	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	15.21	14.63	14.06	14.42	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.35	0.30	0.33	0.46	0.36	0.45	0.53	0.39	0.39	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)	0.97	0.13	0.07	<0.04	<0.04	0.11	0.15	1.6	0.1	1.55	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:156

Area: Talcher Project: Handhidhua Colliery

Project / OCP	Handhidhua Colliery													Indian Drinking Standard (IS-10500):2012
Monitoring Station	Pit Top													
Date of Sampling	10-Apr-2023	8-May-2023	8-Jun-2023	10-Jul-2023	10-Aug-2023	9-Sep-2023	12-Oct-2023	6-Nov-2023	9-Dec-2023	5-Jan-2024	7-Feb-2024	7-Mar-2024	Acceptable	Permissible
Colour(Hazen)	3	1	2	4	2	1	3	3	3	1	2	3	5	15
Turbidity(NTU)	1	2	2	2	2	2	1	3	<1.0	<1.0	1	1	1	5
pH	7.94	7.79	7.57	7.71	7.89	8.28	7.58	8.03	6.88	6.91	7.08	7.14	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	63.6	71.4	80.3	84.4	164.8	40.8	32.6	97.9	12	16	24	28	200	600
Total Hardness (Ca CO ₃)(mg/L)	125	133	149.2	136.54	149.79	157.05	96.78	483.89	52.49	40.22	43.77	59.60	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	23.78	25.77	31.71	29.16	40.82	58.30	35.23	31.31	27.40	25.58	250	1000
Total Dissolve Solid(mg/L)	224	218	232	224	240	226	186	518	108	102	124	152	500	2000
Calcium(mg/L)	42.02	38.79	35.55	43.46	45.44	37.17	30.71	119.59	14.60	11.18	12.77	14.31	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	0.08	0.1	0.3
Sulphate(mg/L)	22.46	25.31	28.25	26.35	24.35	67.95	22.18	126.10	9.09	12.63	11.84	12.28	200	400
Nitrate(mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	15.19	14.67	14.24	14.74	45	No relaxation
Fluoride(mg/L)	<0.3	<0.3	<0.3	0.45	0.36	0.37	0.34	0.46	0.60	0.48	0.46	0.79	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)	0.05	0.13	0.07	<0.04	<0.04	0.1	0.11	0.66	0.08	0.06	0.17	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

Piezometer Analysis



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Table:157

Area: Jagannath**Project: Jagannath OCP****Monitoring Station: Piezometer no. JNC 01**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	12.55
22-Jan-24	1

Table:158

Area: Jagannath**Project: Jagannath OCP****Monitoring Station: Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	4.4
21-Aug-23	3.65
22-Nov-23	4.4

Table:159

Area: Jagannath**Project: Ananta OCP****Monitoring Station: Piezometer no MTP 05; Outside Ananta OCP canteen**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	27.3
21-Aug-23	25.75
21-Nov-23	30
22-Jan-24	30.4

Table:160

Area: Bharatpur**Project: Bharatpur OCP****Monitoring Station: Piezometer no MTP 09; Inside the premises of Joragarhia Panchayat high school**

Date of Sampling	Ground Water level (bgl in meter)
23-May-23	5.9
21-Aug-23	4.73
21-Nov-23	5.57
22-Jan-24	5.5

Table:161

Area: Bharatpur**Project: Bharatpur OCP****Monitoring Station: Piezometer no MTP 10; Inside the premises of Danara high school (reported)**

Date of Sampling	Ground Water level (bgl in meter)
23-May-23	10.4
25-Aug-23	13.25
21-Nov-23	13.65
25-Jan-24	Inaccessible

Table:162

Area: Kaniha**Project: Kaniha OCP****Monitoring Station: Piezometer no MTP 18; Inside the premisses of Chellia Prathamiki school**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	8.92
22-Aug-23	5.75
22-Nov-23	6.6
24-Jan-24	6.5

Table:163

Area: Kaniha**Project: Kaniha OCP****Monitoring Station: Piezometer no MTP 19; Outside Golaghar sahi primary school, Bijigol (school constructed by NTPC)**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	5.13
22-Aug-23	3.35
22-Nov-23	4
24-Jan-24	4.02

Table:164

Area: Kaniha**Project: Kaniha OCP****Monitoring Station: Piezometer no MTP 20; Inside the premises of Kansamunda village old site office, MCL**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	37.5
22-Aug-23	13.95
22-Nov-23	26
24-Jan-24	25.7

Table:165

Area: Lingaraj**Project: Lingraj OCP****Monitoring Station: Piezometer no MTP 01; Inside the premises of Mandapal hospital**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	12.55
21-Aug-23	9.85
22-Nov-23	11.37
23-Jan-24	11.4

Table:166

Area: Lingaraj**Project: Lingraj OCP****Monitoring Station: Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area (reported)**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	4.4
21-Aug-23	3.65
22-Nov-23	4.4

Table:167

Area: Hingula**Project: Balram OCP****Monitoring Station: Piezometer no MTP 10; Inside the premises of Danara high school**

Date of Sampling	Ground Water level (bgl in meter)
23-May-23	10.4
25-Aug-23	13.25
23-Nov-23	13
25-Jan-24	Inaccessible

Table:168

Area: Hingula**Project: Balram OCP****Monitoring Station: Piezometer no MTP 12; In Betianalli village, opposite to Sindhu deori's house**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	7.5
25-Aug-23	6.25
23-Nov-23	7
25-Jan-24	7

Table:169

Area: Hingula**Project: Balram OCP****Monitoring Station: Piezometer no MTP 13 ; Inside the premises of Ambapal Natarha high school**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	Pump fitted
25-Aug-23	Casing jammed
23-Nov-23	Casing jammed
25-Jan-24	Inaccessible

Table:170

Area: Hingula**Project: Balram OCP****Monitoring Station: Piezometer no MTP 17; Inside the premises of market building (through gramin rojgar yojna),****Kandhaberani village**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	Pump fitted
25-Aug-23	Depth could not be measured as pump fitted
23-Nov-23	Depth could not be measured as pump fitted
25-Jan-24	Inaccessible

Table:171

Area: Hingula**Project: Hingula OCP****Monitoring Station: Piezometer no MTP 14; Inside the premises of Pirakhamam village primary school**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	9.5
25-Aug-23	9.85
23-Nov-23	14.5
25-Jan-24	14.5

Table:172

Area: Hingula**Project: Hingula OCP****Monitoring Station: Piezometer no MTP 15; Beside Sujana Pradhan's house in Chottaberani village, near nalla.**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	7.03

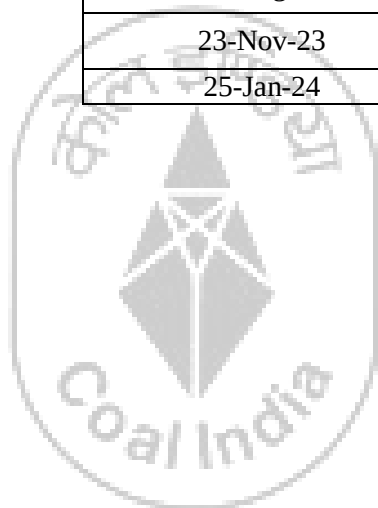
25-Aug-23	5.38
23-Nov-23	6.9
25-Jan-24	6.91

Table:173

Area: Hingula**Project: Hingula OCP**

**Monitoring Station: Piezometer no MTP 16; Backside of Hingula Mandir VIP
guest house**

Date of Sampling	Ground Water level (bgl in meter)
24-May-23	7.03
25-Aug-23	Depth could not be measured as pump fitted
23-Nov-23	Depth could not be measured as pump fitted
25-Jan-24	Inaccessible



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Table:174

Area: Talcher**Project: Deulbera****Monitoring Station: Piezometer no MTP 01; Inside the premises of Mandapal hospital (Reported only)**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	12.55
21-Aug-23	9.85
22-Nov-23	11.37
23-Jan-24	11.4

Table:175

Area: Talcher**Project: Talcher Colliery****Monitoring Station: Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area (reported)**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	4.4
21-Aug-23	3.65
22-Nov-23	4.4

Table:176

Area: Talcher**Project: Handhidhua Colliery****Monitoring Station: Piezometer no MTP 04; Inside central nursery (beside golf hut), Jagannath area (reported)**

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	4.4
21-Aug-23	3.65
22-Nov-23	4.4

Table:177
Area: Talcher
Project: Talcher Colliery
Monitoring Station: Piezometer no MTP 05; Outside Ananta OCP canteen
(reported)

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	27.3
21-Aug-23	25.75
21-Nov-23	30
22-Jan-24	30.4

Table:178
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Piezometer no MTP 11; Inside the premises of Hingula area
office

Date of Sampling	Ground Water level (bgl in meter)
22-May-23	8.12
24-Aug-23	7.25
21-Nov-23	8.16
23-Jan-24	8.1

PIEZOMETER ANALYSIS REPORT

Table:179

Project / OCP	Jagannath OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 04, GW level & quality (in May) Inside Central Nursery beside golf course	Piezometer no. JNC 01, GW level & quality quality and sampling		
Date of Sampling	8-May-23	8-May-23	Acceptable	Permissible
Colour(Hazen)	4	2	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	1	1	5
pH	7.07	6.84	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	64.3	52.3	200	600
Chloride(mg/L)	17.84	15.86	250	1000
Sulphate(mg/L)	16.32	18.64	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	64.26	56.22	200	600
Calcium(mg/L)	12.88	17.71	75	200
Fluoride(mg/L)	0.38	0.32	1	1.5
Total Dissolve Solid(mg/L)	142	134	500	2000
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<.0.1	0.3	No relaxation
Zinc(mg/L)	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Boron(mg/L)	<0.2	<0.2	0.5	1

Table:180

Project / OCP	Bharatpur OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 09, GW level & quality (in May) Inside the premises of jorgahia panchayat high school	Piezometer no. MTP 10, GW level, quantity & quality(Reported Only)		
Date of Sampling	9-May-23	9-May-23	Acceptable	Permissible
Colour(Hazen)	2	Casing Jamed Mini Rat	5	15
Odour	Agreeable		Agreeable	Agreeable
Taste	Agreeable		Agreeable	Agreeable
Turbidity(NTU)	2		1	5
pH	7.53		6.5-8.5	No relaxation
Total Alkalinity(mg/L)	249.2		200	600
Chloride(mg/L)	61.44		250	1000
Sulphate(mg/L)	52.04		200	400
Nitrate(mg/L)	<2.0		45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	224.90		200	600
Calcium(mg/L)	75.65		75	200
Fluoride(mg/L)	0.43		1	1.5
Total Dissolve Solid(mg/L)	484		500	2000
Copper(mg/L)	<0.03		0.05	1.5
Manganese(mg/L)	<0.04		0.1	0.3
Iron(mg/L)	<0.1		0.3	No relaxation
Zinc(mg/L)	<0.04		5	15
Lead(mg/L)	<0.005		0.01	No relaxation
Cadmium(mg/L)	<0.001		0.003	No relaxation
Total Chromium (mg/L)	<0.01		0.05	No relaxation
Arsenic(mg/L)	<0.005		0.01	0.05
Boron(mg/L)	<0.2		0.5	1

Table:181

Project / OCP	Lingraj OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 01, GW level & quality (in May) Near Mandapal Hospital	Piezometer no. MTP 04, GW level, quantity & quality(Reported Only)		
Date of Sampling	9-May-23	8-May-23	Acceptable	Permissible
Colour(Hazen)	3	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	1	1	5
pH	7.48	7.07	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	76.4	64.3	200	600
Chloride(mg/L)	13.87	17.84	250	1000
Sulphate(mg/L)	14.74	16.32	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	76.30	64.26	200	600
Calcium(mg/L)	14.49	12.88	75	200
Fluoride(mg/L)	0.35	0.38	1	1.5
Total Dissolve Solid(mg/L)	148	142	500	2000
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Zinc(mg/L)	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Boron(mg/L)	<0.2	<0.2	0.5	1
Selenium (mg/L)	<0.005	<0.005	0.01	No relaxation
Phenolics (mg/L)	<0.001	<0.001	0.001	0.002
Residual Free Chlorine (mg/L)	<0.02	<0.02	0.2	1
MPN (Index/100ml)	BDL	BDL	-	-

Table:182

Project / OCP	Kaniha				
Monitoring Station	Piezometer no. MTP 18, GW level & quality (in May) Inside the premises of chelia prathamika vidyalaya)	Piezometer no. MTP 19, GW level & quality (in May) (Outside gologhar sahi primary school Bijigol)	Piezometer no. MTP 20, GW level & quality (in May) (Inside premises of Kansamunda village old site office, MCL.	Indian Drinking Standards (IS-10500):2012	
Date of Sampling	10-May-23	10-May-23	10-May-23	Acceptable	Permissible
Colour(Hazen)	4	3	2	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	3	2	2	1	5
pH	7.06	7.40	7.11	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	152.8	184.9	329.6	200	600
Chloride(mg/L)	79.28	63.42	81.26	250	1000
Sulphate(mg/L)	18.96	26.29	16.74	200	400
Nitrate(mg/L)	22.38	<2.0	3.32	45	No relaxation
Total Hardness (Ca CO3)(mg/L)	248.99	176.70	148.59	200	600
Calcium(mg/L)	83.70	57.95	40.24	75	200
Fluoride(mg/L)	0.44	0.7	0.38	1	1.5
Total Dissolve Solid(mg/L)	412	298	492	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	0.3	No relaxation
Zinc(mg/L)	<0.09	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	0.05
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	1

Table:183

Project / OCP	Hingula OCP			Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 14, GW level & quality (in May) In side premises of Pirakhman village primary school	Piezometer no. MTP 15, GW level & quality (in May) Beside Sujan Pradhan house Chottaberani village	Piezometer no. MTP 16, GW level & quality (in May) Backside of Hingula Mandior, VIP Guest House		
Date of Sampling	10-May-23	10-May-23	10-May-23	Acceptable	Permissible
Colour(Hazen)	2	3	1	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	2	2	2	1	5
pH	7.14	7.26	7.51	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	253.3	221.1	217.1	200	600
Chloride(mg/L)	23.78	39.6	51.53	250	1000
Sulphate(mg/L)	7.35	6.69	24.36	200	400
Nitrate(mg/L)	<2.0	<2.0	<2	45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	152.61	132.53	144.58	200	600
Calcium(mg/L)	45.07	40.24	46.68	75	200
Fluoride(mg/L)	0.40	0.34	0.42	1	1.5
Total Dissolve Solid(mg/L)	358	340	378	500	2000
Copper(mg/L)	<0.03	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	<0.1	0.3	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	<0.005	0.01	0.05
Boron(mg/L)	<0.2	<0.2	<0.2	0.5	1

Table:184

Project / OCP	Balaram OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 10, GW level & quality (in May) Inside premises of Danara high school	Piezometer no. MTP 12, GW level & quality (in May) In Betnali village opposite to Sindhy deiri s house		
Date of Sampling	10-May-23	10-May-23	Acceptable	Permissible
Colour(Hazen)	Casing Jamed	3	5	15
Odour		Agreeable	Agreeable	Agreeable
Taste		Agreeable	Agreeable	Agreeable
Turbidity(NTU)		1	1	5
pH		7.08	6.5-8.5	No relaxation
Total Alkalinity(mg/L)		44.2	200	600
Chloride(mg/L)		19.82	250	1000
Sulphate(mg/L)		8.98	200	400
Nitrate(mg/L)		<2.0	45	No relaxation
Total Hardness (Ca CO3)(mg/L)		36.14	200	600
Calcium(mg/L)		8.05	75	200
Fluoride(mg/L)		0.33	1	1.5
Total Dissolve Solid(mg/L)		112	500	2000
Copper(mg/L)		<0.03	0.05	1.5
Manganese(mg/L)		<0.04	0.1	0.3
Iron(mg/L)		<0.1	0.3	No relaxation
Zinc(mg/L)		<0.04	5	15
Lead(mg/L)		<0.005	0.01	No relaxation
Cadmium(mg/L)		<0.001	0.003	No relaxation
Total Chromium (mg/L)		<0.01	0.05	No relaxation
Arsenic(mg/L)		<0.005	0.01	0.05
Boron(mg/L)		<0.2	0.5	1

Table:185

Project / OCP	Balaram OCP		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 13, GW level & quality (in May) Inside premises of Ambapal Natraha High school	Piezometer no. MTP 17, GW level & quality (in May) Inside premises of market building thjrogh gramu rojgar yojna kandhaberini village (Pump fitted)		
Date of Sampling	10-May-23	10-May-23	Acceptable	Permissible
Colour(Hazen)	Depth could not be measured as casing of piezometer is jammed.	2	5	15
Odour		Agreeable	Agreeable	Agreeable
Taste		Agreeable	Agreeable	Agreeable
Turbidity(NTU)		2	1	5
pH		6.94	6.5-8.5	No relaxation
Total Alkalinity(mg/L)		108.5	200	600
Chloride(mg/L)		43.6	250	1000
Sulphate(mg/L)		14.86	200	400
Nitrate(mg/L)		7.84	45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)		140.56	200	600
Calcium(mg/L)		45.07	75	200
Fluoride(mg/L)		0.36	1	1.5
Total Dissolve Solid(mg/L)		268	500	2000
Copper(mg/L)		<0.03	0.05	1.5
Manganese(mg/L)		<0.04	0.1	0.3
Iron(mg/L)		<0.1	0.3	No relaxation
Zinc(mg/L)		<0.04	5	15
Lead(mg/L)		<0.005	0.01	No relaxation
Cadmium(mg/L)		<0.001	0.003	No relaxation
Total Chromium (mg/L)		<0.01	0.05	No relaxation
Arsenic(mg/L)		<0.005	0.01	0.05
Boron(mg/L)		<0.2	0.5	1

Table:186

Project / OCP	Talcher Colliery		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 04, GW level & quality sampling (Reported only)	Piezometer no. MTP 05, GW quality and sampling (Reported only)		
Date of Sampling	8-May-23	8-May-23	Acceptable	Permissible
Colour(Hazen)	4	Mud Water , Water was not sufficient to be collected. Possible piezometer Damage	5	15
Odour	Agreeable		Agreeable	Agreeable
Taste	Agreeable		Agreeable	Agreeable
Turbidity(NTU)	1		1	5
pH	7.07		6.5-8.5	No relaxation
Total Alkalinity(mg/L)	64.3		200	600
Chloride(mg/L)	17.84		250	1000
Sulphate(mg/L)	16.32		200	400
Nitrate(mg/L)	<2.0		45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	64.26		200	600
Calcium(mg/L)	12.88		75	200
Fluoride(mg/L)	0.38		1	1.5
Total Dissolve Solid(mg/L)	142		500	2000
Copper(mg/L)	<0.03		0.05	1.5
Manganese(mg/L)	<0.04		0.1	0.3
Iron(mg/L)	<0.1		0.3	No relaxation
Zinc(mg/L)	<0.04		5	15
Lead(mg/L)	<0.005		0.01	No relaxation
Cadmium(mg/L)	<0.001		0.003	No relaxation
Total Chromium (mg/L)	<0.01		0.05	No relaxation
Arsenic(mg/L)	<0.005		0.01	0.05
Boron(mg/L)	<0.2		0.5	1

Table:187

Project / OCP	Nandira U/G		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 11, GW level & quality (in May) inside premises of Hingula Area office	Piezometer no. MTP 10, GW level & quality (in May) Inside premises of Danara high school (Reported only)		
Date of Sampling	8-May-23	10-May-23	Acceptable	Permissible
Colour(Hazen)	4	Casing Jamed	5	15
Odour	Agreeable		Agreeable	Agreeable
Taste	Agreeable		Agreeable	Agreeable
Turbidity(NTU)	1		1	5
pH	6.89		6.5-8.5	No relaxation
Total Alkalinity(mg/L)	40.2		200	600
Chloride(mg/L)	33.69		250	1000
Sulphate(mg/L)	13.28		200	400
Nitrate(mg/L)	<2.0		45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	36.14		200	600
Calcium(mg/L)	6.44		75	200
Fluoride(mg/L)	0.36		1	1.5
Total Dissolve Solid(mg/L)	124		500	2000
Copper(mg/L)	<0.03		0.05	1.5
Manganese(mg/L)	<0.04		0.1	0.3
Iron(mg/L)	<0.1		0.3	No relaxation
Zinc(mg/L)	<0.04		5	15
Lead(mg/L)	<0.005		0.01	No relaxation
Cadmium(mg/L)	<0.001		0.003	No relaxation
Total Chromium (mg/L)	<0.01		0.05	No relaxation
Arsenic(mg/L)	<0.005		0.01	0.05
Boron(mg/L)	<0.2		0.5	1

Table:188

Project / OCP	Deulbera Colliery		Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Piezometer no. MTP 01, GW level & quality (in May) Near Mandapal Hospital	Piezometer no. MTP 04, GW level & quality sampling (Reported only)		
Date of Sampling	9-May-23	8-May-23	Acceptable	Permissible
Colour(Hazen)	3	4	5	15
Odour	Agreeable	Agreeable	Agreeable	Agreeable
Taste	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity(NTU)	1	1	1	5
pH	7.48	7.07	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	76.4	64.3	200	600
Chloride(mg/L)	13.87	17.84	250	1000
Sulphate(mg/L)	14.74	16.32	200	400
Nitrate(mg/L)	<2.0	<2.0	45	No relaxation
Total Hardness (Ca CO ₃)(mg/L)	76.30	64.26	200	600
Calcium(mg/L)	14.49	12.88	75	200
Fluoride(mg/L)	0.35	0.38	1	1.5
Total Dissolve Solid(mg/L)	148	142	500	2000
Copper(mg/L)	<0.03	<0.03	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	0.1	0.3
Iron(mg/L)	<0.1	<0.1	0.3	No relaxation
Zinc(mg/L)	<0.04	<0.04	5	15
Lead(mg/L)	<0.005	<0.005	0.01	No relaxation
Cadmium(mg/L)	<0.001	<0.001	0.003	No relaxation
Total Chromium (mg/L)	<0.01	<0.01	0.05	No relaxation
Arsenic(mg/L)	<0.005	<0.005	0.01	0.05
Boron(mg/L)	<0.2	<0.2	0.5	1



NOISE QUALITY

cmpdi

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NOISE LEVEL MONITORING DATA

Table:10.1

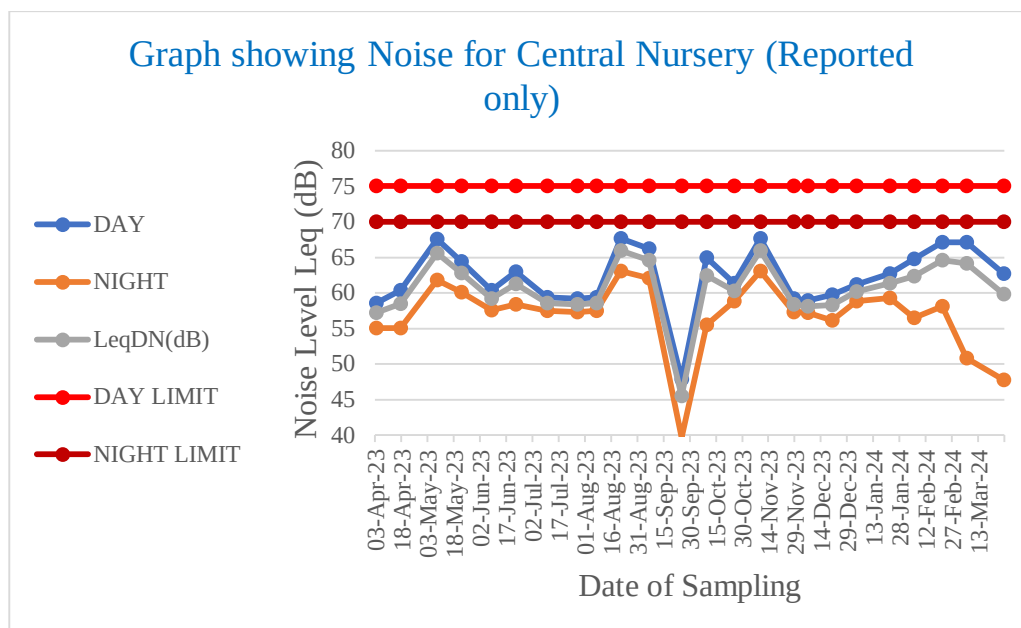
Area: Jagannath

Project: Jagannath OCP

Monitoring Station: Central Nursery (Reported only)

DATE	DAY	NIGHT	Leq DN
03-Apr-23	58.6	55.1	57.2
17-Apr-23	60.4	55.1	58.5
08-May-23	67.6	61.8	65.6
22-May-23	64.4	60.1	62.8
08-Jun-23	60.4	57.6	59.2
22-Jun-23	63	58.4	61.3
10-Jul-23	59.4	57.5	58.6
27-Jul-23	59.2	57.3	58.4
07-Aug-23	59.4	57.5	58.6
21-Aug-23	67.7	63.1	66.0
06-Sep-23	66.2	62.1	64.6
25-Sep-23	47.9	39.7	45.5
09-Oct-23	65	55.5	62.5
25-Oct-23	61.4	58.8	60.3
09-Nov-23	67.7	63.1	66.0
28-Nov-23	59.2	57.3	58.4
06-Dec-23	58.9	57.2	58.1
20-Dec-23	59.7	56.1	58.3
03-Jan-24	61.2	58.8	60.2
22-Jan-24	62.7	59.3	61.3
05-Feb-24	64.8	56.5	62.4
21-Feb-24	67.1	58.1	64.6
06-Mar-24	67.1	50.8	64.2
27-Mar-24	62.7	47.8	59.8
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	47.9	39.7	45.5
Maximum	67.7	63.1	66.0
Mean	62.15	56.86	60.5

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)

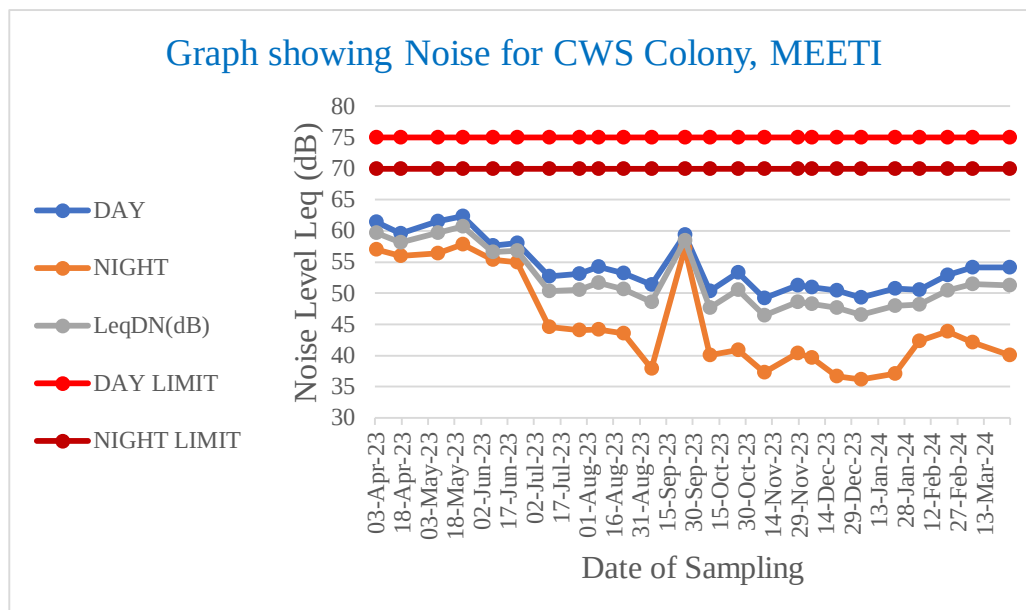


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Table:10.2
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: CWS Colony, MEETI

DATE	DAY	NIGHT	Leq DN
03-Apr-23	61.4	57	59.7
17-Apr-23	59.6	56	58.2
08-May-23	61.6	56.4	59.7
22-May-23	62.4	57.8	60.7
08-Jun-23	57.6	55.4	56.6
22-Jun-23	58.1	55	56.8
10-Jul-23	52.7	44.6	50.3
27-Jul-23	53.1	44.1	50.6
07-Aug-23	54.3	44.2	51.7
21-Aug-23	53.2	43.6	50.6
06-Sep-23	51.4	37.9	48.6
25-Sep-23	59.4	57.2	58.4
09-Oct-23	50.3	40.1	47.7
25-Oct-23	53.3	40.9	50.5
09-Nov-23	49.2	37.3	46.5
28-Nov-23	51.3	40.4	48.6
06-Dec-23	51	39.7	48.3
20-Dec-23	50.5	36.7	47.7
03-Jan-24	49.3	36.2	46.5
22-Jan-24	50.8	37.1	48.0
05-Feb-24	50.6	42.3	48.2
21-Feb-24	52.9	43.9	50.4
06-Mar-24	54.2	42.1	51.4
27-Mar-24	54.1	40.1	51.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	49.2	36.2	46.5
MAX	62.4	57.8	60.7
MEAN	54.26	45.25	51.96

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)

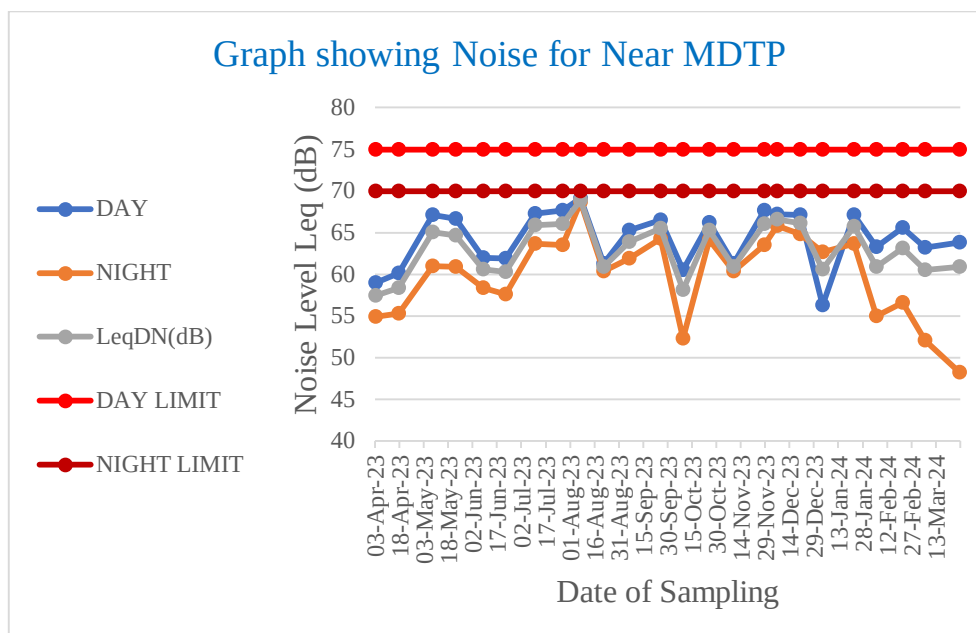


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Table:10.3
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near MDTP

DATE	DAY	NIGHT	Leq DN
03-Apr-23	59	54.9	57.4
17-Apr-23	60.1	55.3	58.3
08-May-23	67.1	61	65.0
22-May-23	66.7	60.9	64.7
08-Jun-23	62	58.4	60.6
22-Jun-23	61.9	57.6	60.3
10-Jul-23	67.3	63.7	65.9
27-Jul-23	67.7	63.5	66.1
07-Aug-23	69.1	68.7	68.9
21-Aug-23	61.3	60.4	60.9
06-Sep-23	65.3	61.9	63.9
25-Sep-23	66.5	64.3	65.5
09-Oct-23	60.5	52.3	58.1
25-Oct-23	66.2	64.1	65.3
09-Nov-23	61.3	60.4	60.9
28-Nov-23	67.7	63.5	66.1
06-Dec-23	67.2	65.8	66.6
20-Dec-23	67.1	64.8	66.1
03-Jan-24	56.3	62.7	60.6
22-Jan-24	67.1	63.7	65.7
05-Feb-24	63.3	55	60.9
21-Feb-24	65.6	56.6	63.1
06-Mar-24	63.2	52.1	60.5
27-Mar-24	63.8	48.2	60.9
Brief Statistic	DAY	NIGHT	Leq DN
MIN	56.3	48.2	57.4
MAX	69.1	68.7	68.9
MEAN	64.30	59.99	63.0

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)



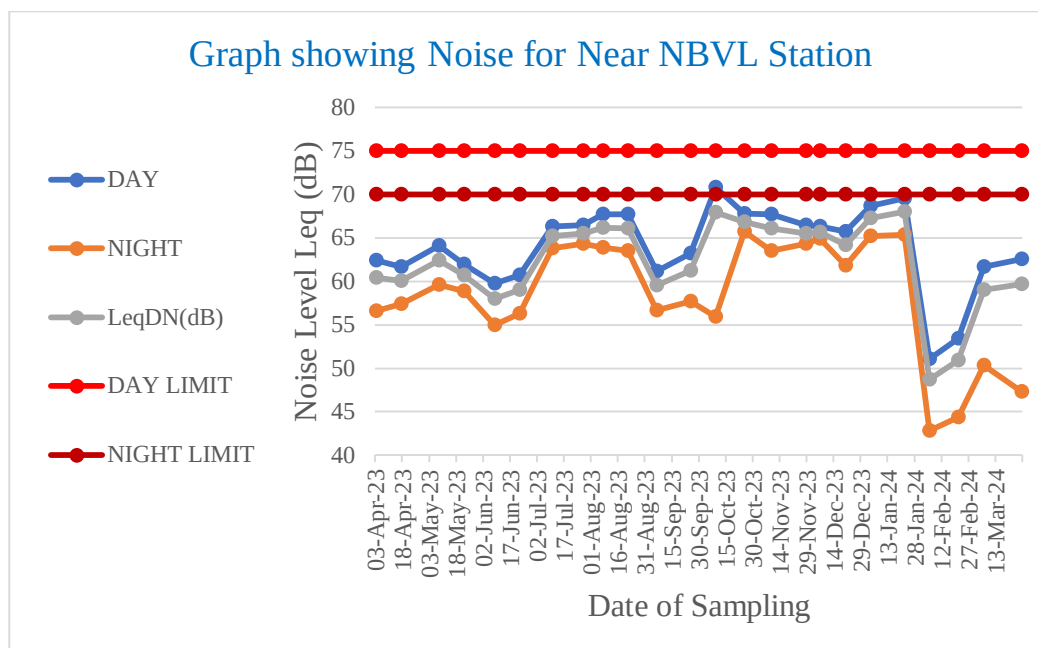
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Table:10.4
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near NBVL Station

DATE	DAY	NIGHT	Leq DN
03-Apr-23	62.4	56.6	60.4
17-Apr-23	61.7	57.4	60.1
08-May-23	64.1	59.6	62.4
22-May-23	62	58.9	60.7
08-Jun-23	59.8	55	58.0
22-Jun-23	60.7	56.3	59.0
10-Jul-23	66.3	63.8	65.2
27-Jul-23	66.5	64.3	65.5
07-Aug-23	67.7	63.9	66.2
21-Aug-23	67.7	63.5	66.1
06-Sep-23	61.2	56.7	59.5
25-Sep-23	63.2	57.7	61.3
09-Oct-23	70.8	55.9	67.9
25-Oct-23	67.8	65.7	66.9
09-Nov-23	67.7	63.5	66.1
28-Nov-23	66.5	64.3	65.5
06-Dec-23	66.3	64.9	65.7
20-Dec-23	65.7	61.8	64.2
03-Jan-24	68.7	65.2	67.3
22-Jan-24	69.6	65.4	68.0
05-Feb-24	51.1	42.8	48.7
21-Feb-24	53.4	44.4	50.9
06-Mar-24	61.7	50.3	59.0
27-Mar-24	62.6	47.3	59.7
Brief Statistic	DAY	NIGHT	Leq DN
MIN	51.1	42.8	48.7
MAX	70.8	65.7	68.0
MEAN	63.97	58.55	62.3

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)



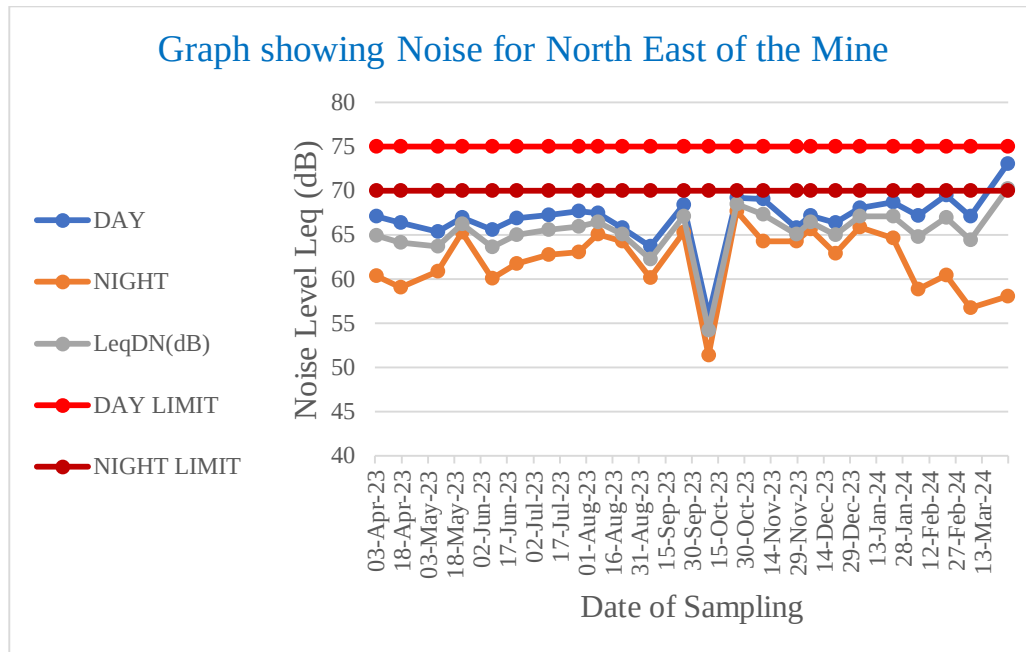
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Table:10.5
Area: Jagannath
Project: Ananta OCP
Monitoring Station: North East of the Mine

DATE	DAY	NIGHT	Leq DN
03-Apr-23	67.1	60.4	64.9
17-Apr-23	66.4	59.1	64.1
08-May-23	65.4	60.9	63.7
22-May-23	67	65.3	66.2
08-Jun-23	65.6	60.1	63.7
22-Jun-23	66.9	61.8	65.1
10-Jul-23	67.3	62.8	65.6
27-Jul-23	67.7	63.1	66.0
07-Aug-23	67.5	65.1	66.5
21-Aug-23	65.8	64.3	65.1
06-Sep-23	63.7	60.2	62.3
25-Sep-23	68.4	65.3	67.1
09-Oct-23	55.9	51.4	54.2
25-Oct-23	69.2	67.7	68.5
09-Nov-23	69.1	64.3	67.3
28-Nov-23	65.8	64.3	65.1
06-Dec-23	67.2	65.7	66.5
20-Dec-23	66.4	62.9	65.0
03-Jan-24	68.1	65.9	67.1
22-Jan-24	68.7	64.7	67.1
05-Feb-24	67.2	58.9	64.8
21-Feb-24	69.5	60.5	67.0
06-Mar-24	67.1	56.8	64.5
27-Mar-24	73.1	58.1	70.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	55.9	51.4	54.2
MAX	73.1	67.7	70.2
MEAN	66.92	62.07	65.3

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)



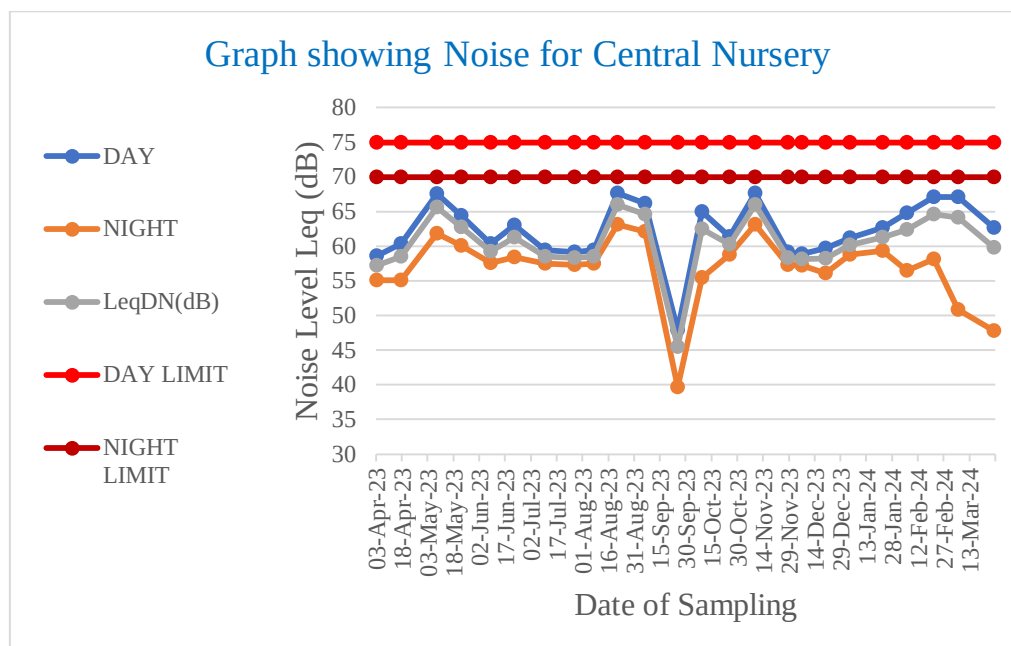
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Table:10.6
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Central Nursery

DATE	DAY	NIGHT	Leq DN
03-Apr-23	58.6	55.1	57.2
17-Apr-23	60.4	55.1	58.5
08-May-23	67.6	61.8	65.6
22-May-23	64.4	60.1	62.8
08-Jun-23	60.4	57.6	59.2
22-Jun-23	63	58.4	61.3
10-Jul-23	59.4	57.5	58.6
27-Jul-23	59.2	57.3	58.4
07-Aug-23	59.4	57.5	58.6
21-Aug-23	67.7	63.1	66.0
06-Sep-23	66.2	62.1	64.6
25-Sep-23	47.9	39.7	45.5
09-Oct-23	65	55.5	62.5
25-Oct-23	61.4	58.8	60.3
09-Nov-23	67.7	63.1	66.0
28-Nov-23	59.2	57.3	58.4
06-Dec-23	58.9	57.2	58.1
20-Dec-23	59.7	56.1	58.3
03-Jan-24	61.2	58.8	60.2
22-Jan-24	62.7	59.3	61.3
05-Feb-24	64.8	56.5	62.4
21-Feb-24	67.1	58.1	64.6
06-Mar-24	67.1	50.8	64.2
27-Mar-24	62.7	47.8	59.8
Brief Statistic	DAY	NIGHT	Leq DN
MIN	47.9	39.7	45.5
MAX	67.7	63.1	66.0
MEAN	62.15	56.86	60.5

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)



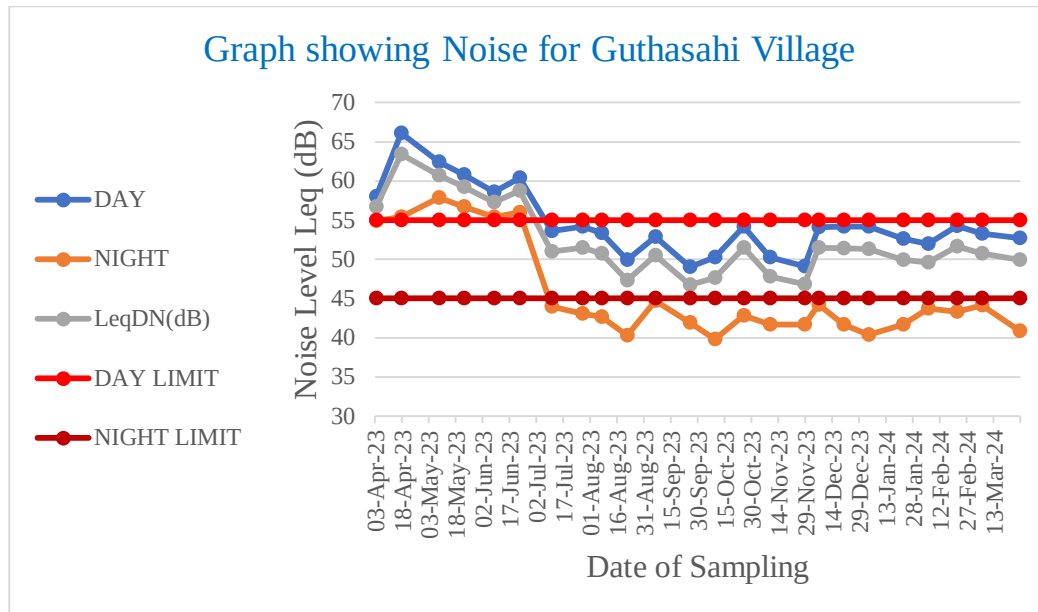
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Table:10.7
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Guthasahi Village

DATE	DAY	NIGHT	Leq DN
03-Apr-23	58	54.9	56.7
17-Apr-23	66.1	55.4	63.4
08-May-23	62.4	57.9	60.7
22-May-23	60.8	56.7	59.2
08-Jun-23	58.6	55.4	57.3
22-Jun-23	60.4	56	58.7
10-Jul-23	53.6	44	51.0
27-Jul-23	54.2	43.1	51.5
07-Aug-23	53.4	42.7	50.7
21-Aug-23	49.9	40.3	47.3
06-Sep-23	52.9	44.7	50.5
25-Sep-23	49	41.9	46.8
09-Oct-23	50.3	39.8	47.7
25-Oct-23	54.2	42.8	51.5
09-Nov-23	50.3	41.7	47.9
28-Nov-23	49.1	41.7	46.8
06-Dec-23	54.1	44.2	51.5
20-Dec-23	54.2	41.7	51.4
03-Jan-24	54.2	40.4	51.4
22-Jan-24	52.6	41.7	49.9
05-Feb-24	52	43.7	49.6
21-Feb-24	54.3	43.3	51.6
06-Mar-24	53.3	44.1	50.8
27-Mar-24	52.7	40.9	50.0
Brief Statistic	DAY	NIGHT	Leq DN
MIN	49	39.8	46.8
MAX	66.1	57.9	63.4
MEAN	54.61	45.79	52.3

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)

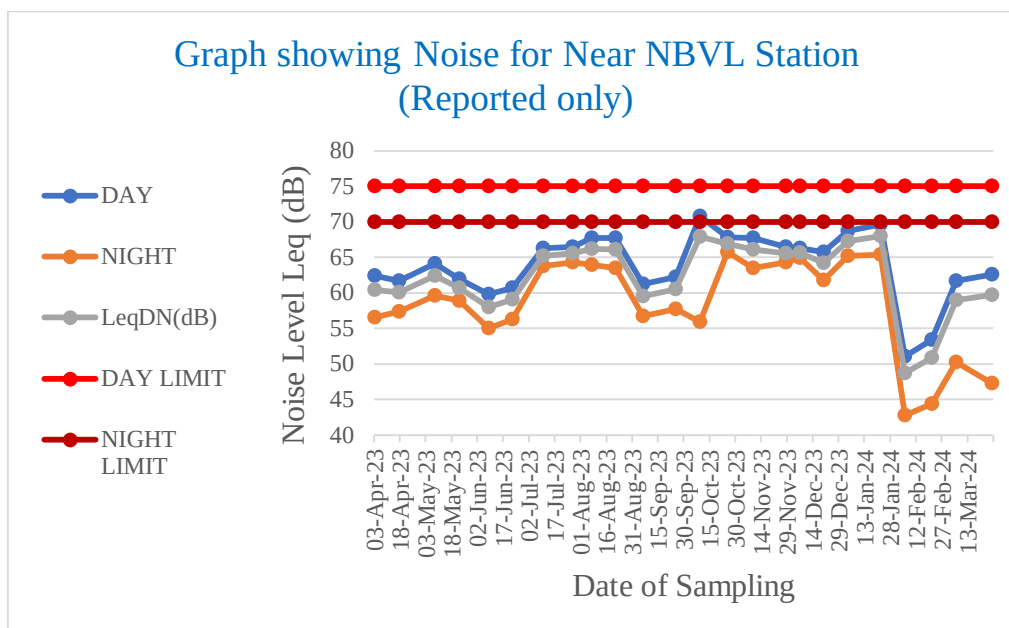


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Table:10.8
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Near NBVL Station (Reported only)

DATE	DAY	NIGHT	Leq DN
03-Apr-23	62.4	56.6	60.4
17-Apr-23	61.7	57.4	60.1
08-May-23	64.1	59.6	62.4
22-May-23	62	58.9	60.7
08-Jun-23	59.8	55	58.0
22-Jun-23	60.7	56.3	59.0
10-Jul-23	66.3	63.8	65.2
27-Jul-23	66.5	64.3	65.5
07-Aug-23	67.7	63.9	66.2
21-Aug-23	67.7	63.5	66.1
06-Sep-23	61.2	56.7	59.5
25-Sep-23	62.2	57.7	60.5
09-Oct-23	70.8	55.9	67.9
25-Oct-23	67.8	65.7	66.9
09-Nov-23	67.7	63.5	66.1
28-Nov-23	66.5	64.3	65.5
06-Dec-23	66.3	64.9	65.7
20-Dec-23	65.7	61.8	64.2
03-Jan-24	68.7	65.2	67.3
22-Jan-24	69.6	65.4	68.0
05-Feb-24	51.1	42.8	48.7
21-Feb-24	53.4	44.4	50.9
06-Mar-24	61.7	50.3	59.0
27-Mar-24	62.6	47.3	59.7
Brief Statistic	DAY	NIGHT	Leq DN
MIN	51.1	42.8	48.7
MAX	70.8	65.7	68.0
MEAN	63.93	58.55	62.2

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)

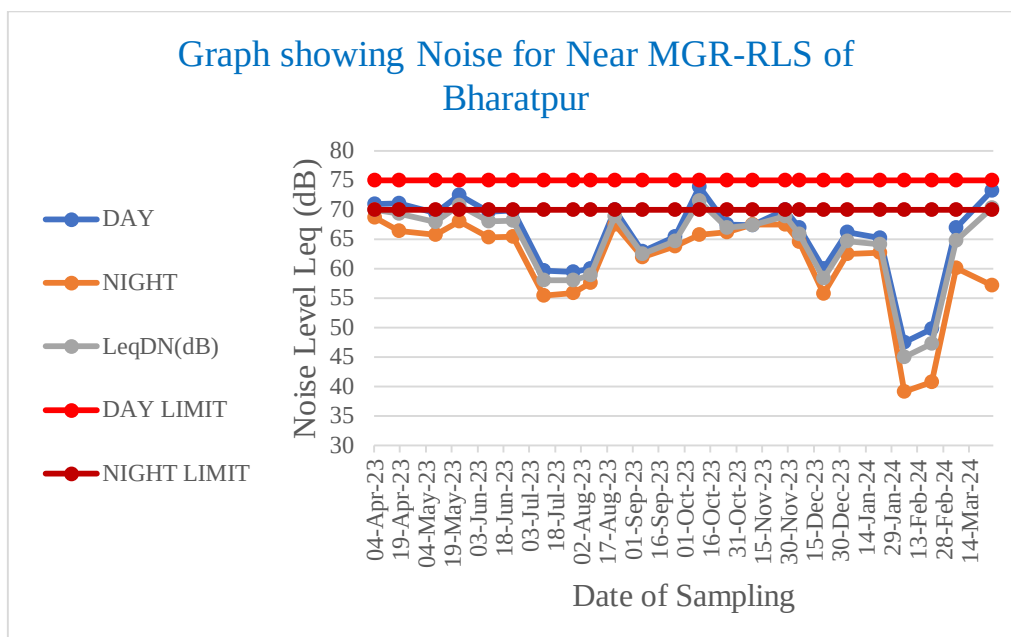


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Table:10.9
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near MGR-RLS of Bharatpur

DATE	DAY	NIGHT	Leq DN
04-Apr-23	70.9	68.6	69.9
18-Apr-23	71	66.4	69.3
09-May-23	69.4	65.7	67.9
23-May-23	72.4	68	70.7
09-Jun-23	69.6	65.3	68.0
23-Jun-23	69.8	65.4	68.1
11-Jul-23	59.6	55.4	58.0
28-Jul-23	59.4	55.8	58.0
07-Aug-23	59.9	57.6	58.9
21-Aug-23	69.9	67.4	68.8
06-Sep-23	62.9	61.9	62.4
25-Sep-23	65.4	63.8	64.7
09-Oct-23	73.9	65.7	71.5
25-Oct-23	67.5	66.1	66.9
09-Nov-23	67.3	67.4	67.4
28-Nov-23	69.9	67.4	68.8
06-Dec-23	66.9	64.5	65.9
20-Dec-23	59.9	55.7	58.3
03-Jan-24	66.1	62.4	64.6
22-Jan-24	65.2	62.7	64.1
05-Feb-24	47.4	39.1	45.0
21-Feb-24	49.7	40.7	47.2
06-Mar-24	66.9	60.1	64.7
27-Mar-24	73.2	57.1	70.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	47.4	39.1	45.0
MAX	73.9	68.6	71.5
MEAN	65.59	61.26	64.1

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)

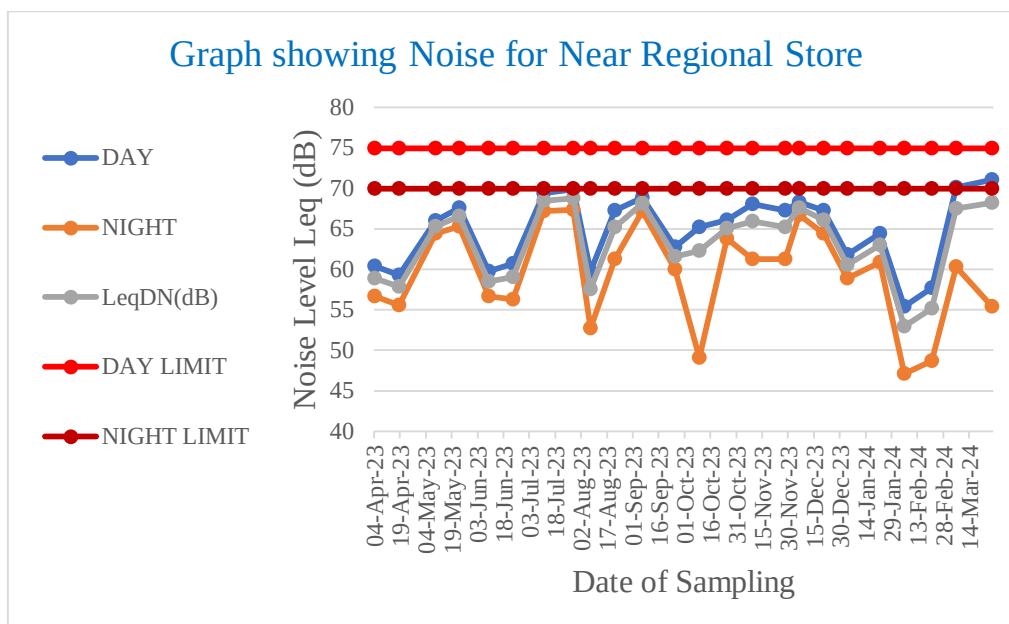


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Table:10.10
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near Regional Store

DATE	DAY	NIGHT	Leq DN
04-Apr-23	60.4	56.7	58.9
18-Apr-23	59.3	55.6	57.8
09-May-23	66	64.4	65.3
23-May-23	67.6	65.3	66.6
09-Jun-23	59.8	56.7	58.5
23-Jun-23	60.7	56.3	59.0
11-Jul-23	69.4	67.2	68.4
28-Jul-23	69.9	67.4	68.8
07-Aug-23	59.8	52.7	57.6
21-Aug-23	67.3	61.3	65.3
06-Sep-23	68.9	67.2	68.1
25-Sep-23	62.8	60	61.6
09-Oct-23	65.2	49.1	62.3
25-Oct-23	66.1	63.8	65.1
09-Nov-23	68.1	61.3	65.9
28-Nov-23	67.3	61.3	65.3
06-Dec-23	68.3	66.7	67.6
20-Dec-23	67.3	64.4	66.1
03-Jan-24	61.8	58.9	60.6
22-Jan-24	64.4	60.9	63.0
05-Feb-24	55.4	47.1	53.0
21-Feb-24	57.7	48.7	55.2
06-Mar-24	70.1	60.3	67.5
27-Mar-24	71.1	55.4	68.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	55.4	47.1	53.0
MAX	71.1	67.4	68.8
MEAN	64.78	59.53	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)

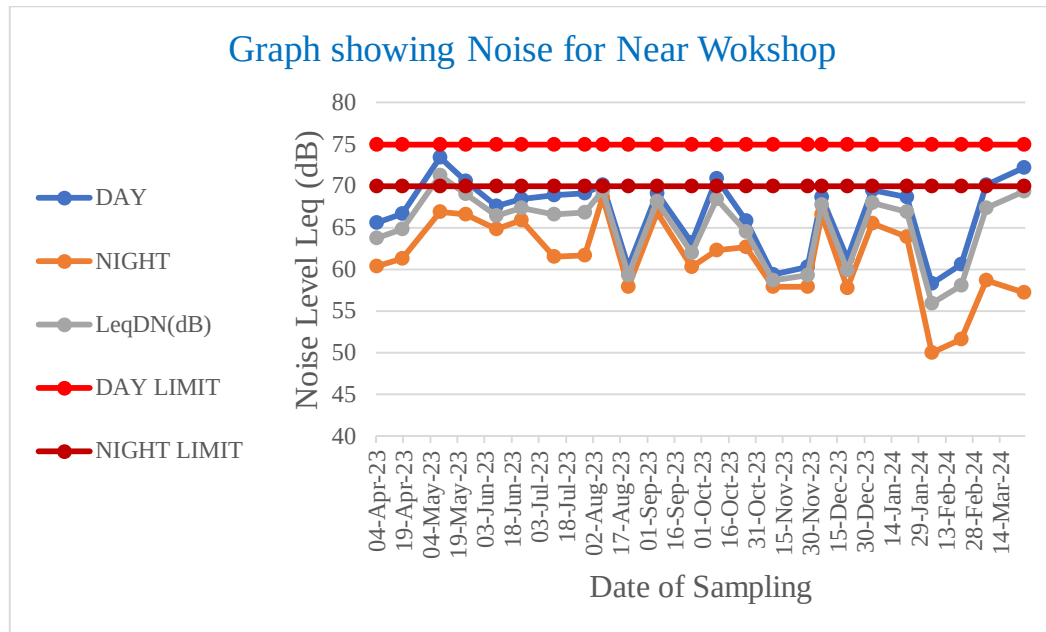


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Table:10.11
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near Wokshop

DATE	DAY	NIGHT	Leq DN
04-Apr-23	65.6	60.4	63.7
18-Apr-23	66.7	61.3	64.8
09-May-23	73.4	66.9	71.3
23-May-23	70.6	66.6	69.0
09-Jun-23	67.6	64.8	66.4
23-Jun-23	68.4	65.9	67.3
11-Jul-23	68.9	61.5	66.6
28-Jul-23	69.1	61.7	66.8
07-Aug-23	70.1	68.7	69.5
21-Aug-23	60.3	57.9	59.3
06-Sep-23	69.1	66.8	68.1
25-Sep-23	63.2	60.3	62.0
09-Oct-23	70.9	62.3	68.5
25-Oct-23	65.8	62.7	64.5
09-Nov-23	59.4	57.9	58.7
28-Nov-23	60.3	57.9	59.3
06-Dec-23	68.7	66.6	67.8
20-Dec-23	61.3	57.8	59.9
03-Jan-24	69.5	65.5	67.9
22-Jan-24	68.7	63.9	66.9
05-Feb-24	58.3	50	55.9
21-Feb-24	60.6	51.6	58.1
06-Mar-24	70.1	58.7	67.4
27-Mar-24	72.2	57.2	69.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	58.3	50	55.9
MAX	73.4	68.7	71.3
MEAN	66.62	61.45	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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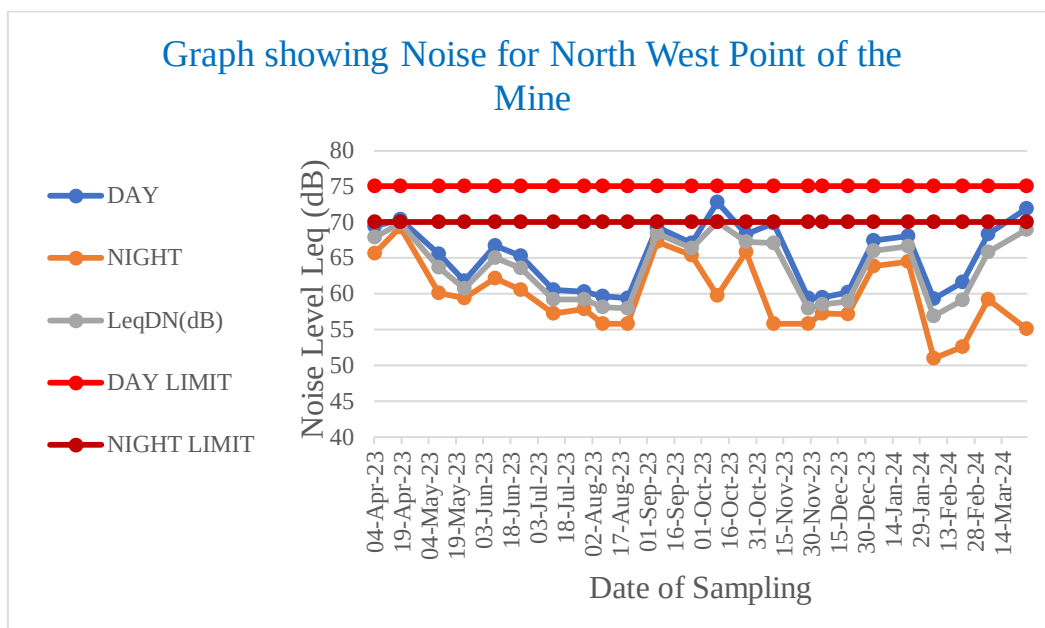
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Table:10.12

Area: Bharatpur**Project:** Bharatpur OCP**Monitoring Station:** North West Point of the Mine

DATE	DAY	NIGHT	Leq DN
04-Apr-23	69.4	65.7	67.9
18-Apr-23	70.4	69.3	69.9
09-May-23	65.6	60.1	63.7
23-May-23	61.8	59.4	60.8
09-Jun-23	66.7	62.2	65.0
23-Jun-23	65.3	60.6	63.6
11-Jul-23	60.6	57.3	59.3
28-Jul-23	60.3	57.9	59.3
07-Aug-23	59.7	55.8	58.2
21-Aug-23	59.4	55.8	58.0
06-Sep-23	69.3	67.3	68.4
25-Sep-23	67.1	65.4	66.3
09-Oct-23	72.8	59.8	70.0
25-Oct-23	68.3	65.8	67.2
09-Nov-23	69.9	55.8	67.1
28-Nov-23	59.4	55.8	58.0
06-Dec-23	59.5	57.3	58.5
20-Dec-23	60.2	57.2	59.0
03-Jan-24	67.4	63.9	66.0
22-Jan-24	68.1	64.5	66.7
05-Feb-24	59.3	51	56.9
21-Feb-24	61.6	52.6	59.1
06-Mar-24	68.3	59.2	65.8
27-Mar-24	71.9	55.1	69.0
Brief Statistic	DAY	NIGHT	Leq DN
MIN	59.3	51	56.9
MAX	72.8	69.3	70.0
MEAN	65.10	59.78	63.5

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)

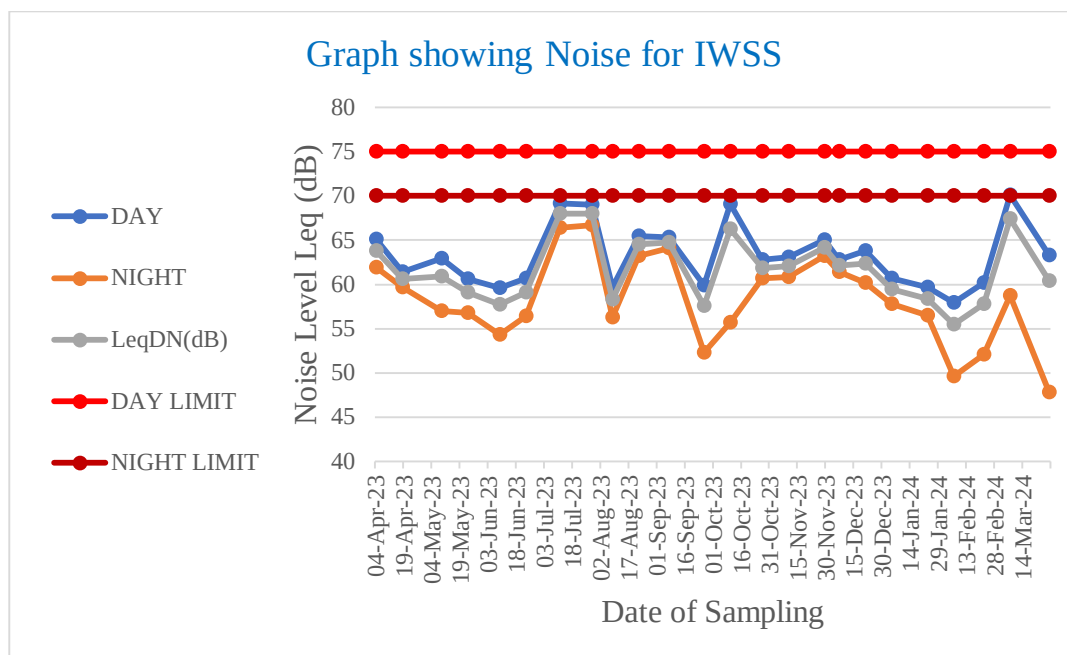


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Table:10.13
Area: Lingaraj
Project: Lingaraj OCP
Monitoring Station: IWSS

DATE	DAY	NIGHT	Leq DN
04-Apr-23	65.1	61.9	63.8
18-Apr-23	61.4	59.7	60.6
09-May-23	62.9	57	60.9
23-May-23	60.6	56.8	59.1
09-Jun-23	59.6	54.3	57.7
23-Jun-23	60.7	56.4	59.1
11-Jul-23	69.2	66.4	68.0
28-Jul-23	69	66.7	68.0
08-Aug-23	59.7	56.3	58.3
22-Aug-23	65.5	63.2	64.5
07-Sep-23	65.3	64.1	64.7
26-Sep-23	59.9	52.3	57.6
10-Oct-23	69.1	55.7	66.3
27-Oct-23	62.8	60.7	61.9
10-Nov-23	63.1	60.8	62.1
29-Nov-23	65	63.2	64.2
07-Dec-23	62.8	61.4	62.2
21-Dec-23	63.8	60.2	62.4
04-Jan-24	60.7	57.8	59.5
23-Jan-24	59.7	56.5	58.4
06-Feb-24	57.9	49.6	55.5
22-Feb-24	60.2	52.1	57.8
07-Mar-24	70.1	58.7	67.4
28-Mar-24	63.3	47.8	60.4
Brief Statistic	DAY	NIGHT	Leq DN
MIN	57.9	47.8	55.5
MAX	70.1	66.7	68.0
MEAN	63.23	58.32	61.7

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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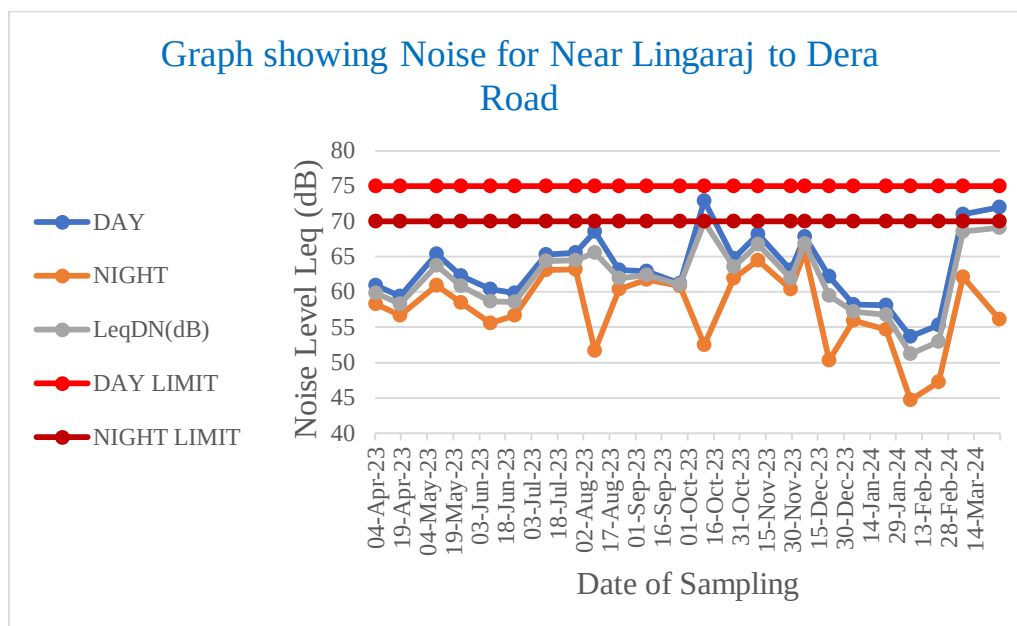
Table:10.14

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Near Lingaraj to Dera Road

DATE	DAY	NIGHT	Leq DN
04-Apr-23	60.9	58.3	59.8
18-Apr-23	59.4	56.7	58.3
09-May-23	65.4	60.9	63.7
23-May-23	62.3	58.5	60.8
09-Jun-23	60.4	55.6	58.6
23-Jun-23	59.8	56.7	58.5
11-Jul-23	65.3	63.1	64.3
28-Jul-23	65.5	63.2	64.5
08-Aug-23	68.5	51.7	65.6
22-Aug-23	63.1	60.4	62.0
07-Sep-23	62.9	61.7	62.3
26-Sep-23	61.2	60.8	61.0
10-Oct-23	72.9	52.5	69.9
27-Oct-23	64.7	61.9	63.5
10-Nov-23	68.2	64.5	66.7
29-Nov-23	63.1	60.4	62.0
07-Dec-23	67.8	65.6	66.8
21-Dec-23	62.2	50.3	59.5
04-Jan-24	58.2	55.9	57.2
23-Jan-24	58.1	54.7	56.7
06-Feb-24	53.7	44.7	51.2
22-Feb-24	55.3	47.2	52.9
07-Mar-24	71	62.1	68.5
28-Mar-24	72	56.1	69.1
Brief Statistic	DAY	NIGHT	Leq DN
MIN	53.7	44.7	51.2
MAX	72.9	65.6	69.9
MEAN	63.41	57.65	61.8

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)

Graph showing Noise for Near Lingaraj to Dera Road



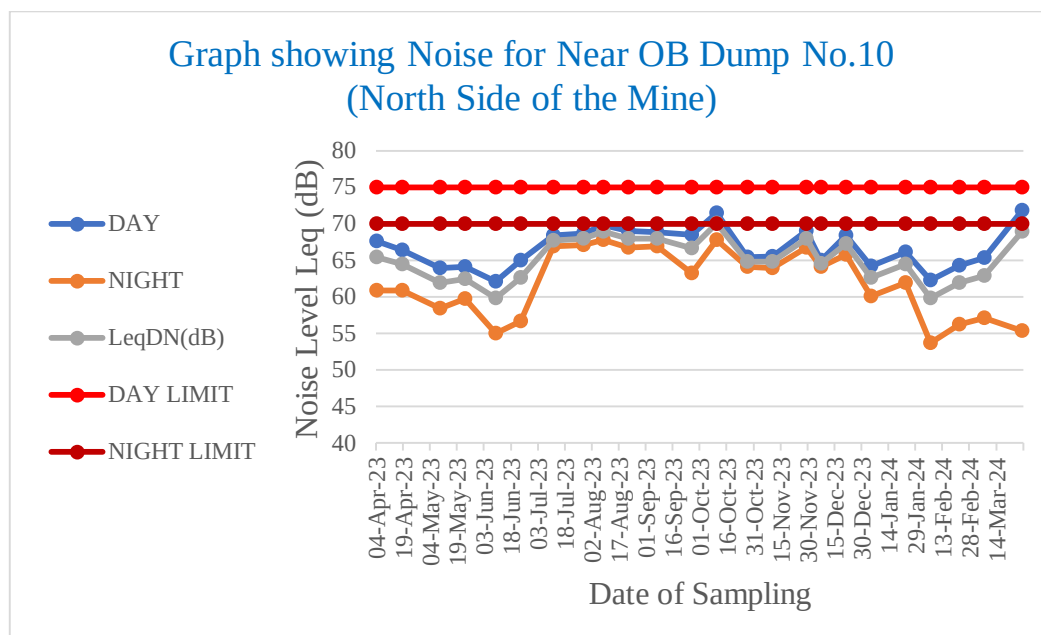
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Table:10.15

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Near OB Dump No.10 (North Side of the Mine)

DATE	DAY	NIGHT	Leq DN
04-Apr-23	67.6	60.9	65.4
18-Apr-23	66.4	60.9	64.5
09-May-23	63.9	58.4	62.0
23-May-23	64.1	59.7	62.4
09-Jun-23	62.1	55	59.9
23-Jun-23	65	56.7	62.6
11-Jul-23	68.4	66.9	67.7
28-Jul-23	68.7	67.1	68.0
08-Aug-23	69.8	67.8	68.9
22-Aug-23	69	66.7	68.0
07-Sep-23	68.8	66.9	68.0
26-Sep-23	68.5	63.2	66.6
10-Oct-23	71.5	67.8	70.0
27-Oct-23	65.4	64.1	64.8
10-Nov-23	65.5	63.9	64.8
29-Nov-23	69	66.7	68.0
07-Dec-23	65	64.1	64.6
21-Dec-23	68.4	65.8	67.3
04-Jan-24	64.2	60.1	62.6
23-Jan-24	66.1	61.9	64.5
06-Feb-24	62.3	53.7	59.9
22-Feb-24	64.3	56.2	61.9
07-Mar-24	65.3	57.1	62.9
28-Mar-24	71.8	55.4	68.9
Brief Statistic	DAY	NIGHT	Leq DN
MIN	62.1	53.7	59.9
MAX	71.8	67.8	70.0
MEAN	66.71	61.96	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)



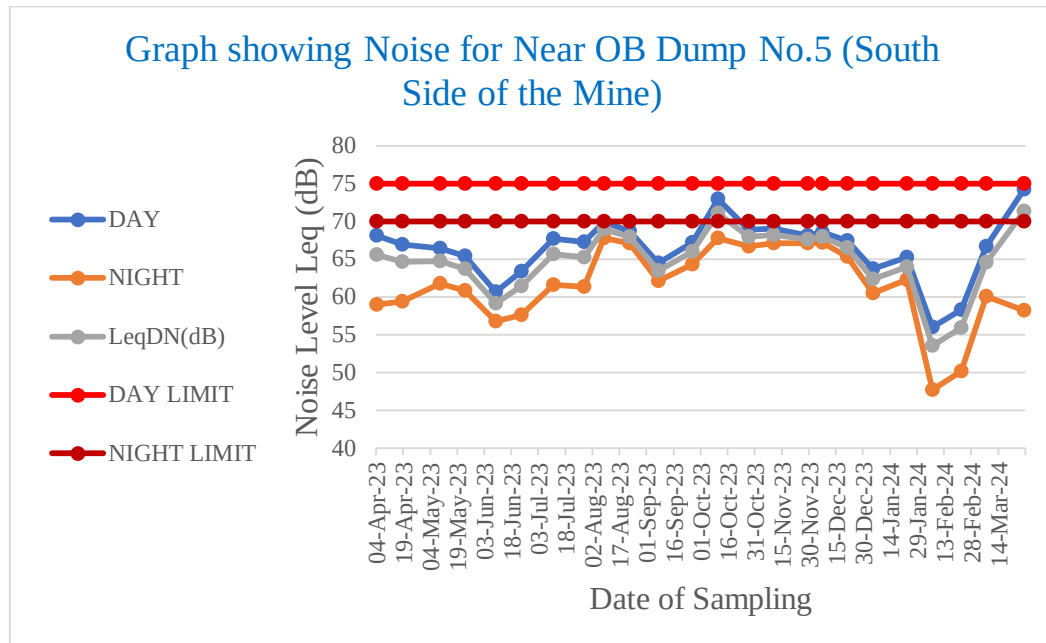
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Table:10.16

Area: Lingaraj**Project:** Lingaraj OCP**Monitoring Station:** Near OB Dump No.5 (South Side of the Mine)

DATE	DAY	NIGHT	Leq DN
04-Apr-23	68.1	59	65.6
18-Apr-23	66.9	59.4	64.6
09-May-23	66.4	61.8	64.7
23-May-23	65.4	60.8	63.7
09-Jun-23	60.7	56.8	59.2
23-Jun-23	63.4	57.6	61.4
11-Jul-23	67.7	61.6	65.6
28-Jul-23	67.3	61.3	65.3
08-Aug-23	69.9	67.8	69.0
22-Aug-23	68.7	67.1	68.0
07-Sep-23	64.5	62.1	63.5
26-Sep-23	67.2	64.3	66.0
10-Oct-23	72.9	67.8	71.1
27-Oct-23	68.9	66.7	67.9
10-Nov-23	69	67.1	68.2
29-Nov-23	68.1	67.1	67.6
07-Dec-23	68.5	67.2	67.9
21-Dec-23	67.4	65.3	66.5
04-Jan-24	63.7	60.5	62.4
23-Jan-24	65.2	62.3	64.0
06-Feb-24	56	47.7	53.6
22-Feb-24	58.3	50.2	55.9
07-Mar-24	66.7	60.1	64.5
28-Mar-24	74.2	58.2	71.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	56	47.7	53.6
MAX	74.2	67.8	71.3
MEAN	66.46	61.66	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)



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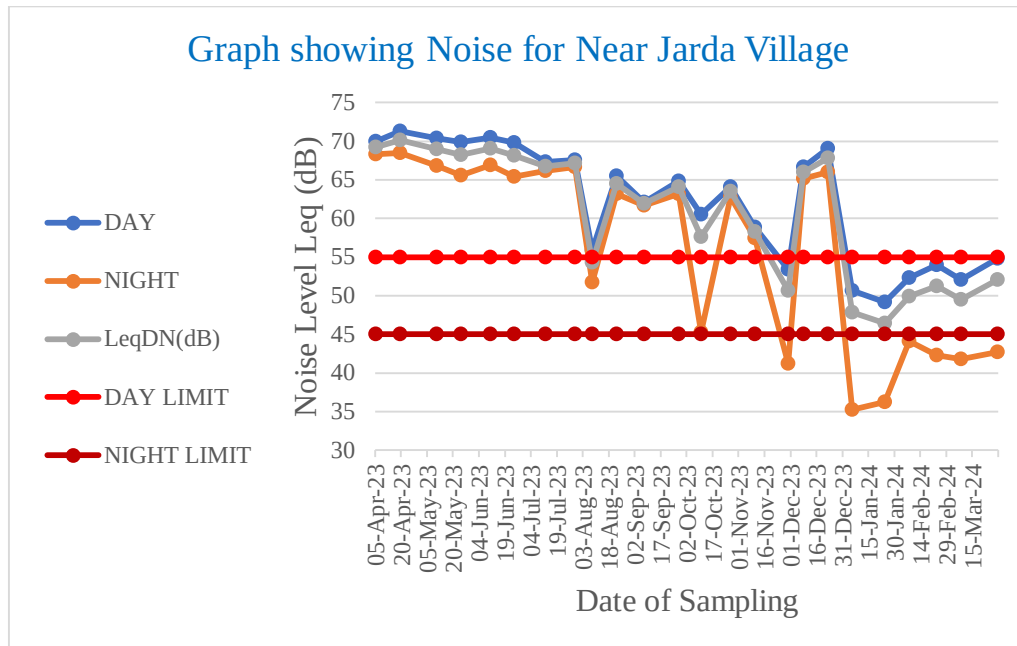
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Table:10.17

Area: Kaniha**Project:** Kaniha OCP**Monitoring Station:** Near Jarda Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	70	68.3	69.2
19-Apr-23	71.3	68.5	70.1
10-May-23	70.4	66.8	69.0
24-May-23	69.9	65.6	68.3
10-Jun-23	70.5	66.9	69.1
24-Jun-23	69.8	65.4	68.1
12-Jul-23	67.3	66.2	66.8
29-Jul-23	67.6	66.7	67.2
08-Aug-23	55.9	51.7	54.3
22-Aug-23	65.5	63.2	64.5
07-Sep-23	62.1	61.7	61.9
27-Sep-23	64.8	63.2	64.1
10-Oct-23	60.5	45.3	57.6
27-Oct-23	64.1	62.8	63.5
10-Nov-23	58.9	57.5	58.3
29-Nov-23	53.4	41.2	50.6
08-Dec-23	66.7	65.2	66.0
22-Dec-23	69.1	66	67.8
05-Jan-24	50.7	35.2	47.8
24-Jan-24	49.2	36.2	46.4
07-Feb-24	52.3	44.1	49.9
23-Feb-24	54	42.3	51.3
08-Mar-24	52.1	41.8	49.5
29-Mar-24	54.8	42.7	52.0
Brief Statistic	DAY	NIGHT	Leq DN
MIN	49.2	35.2	46.4
MAX	71.3	68.5	70.1
MEAN	62.12	56.44	60.6

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)

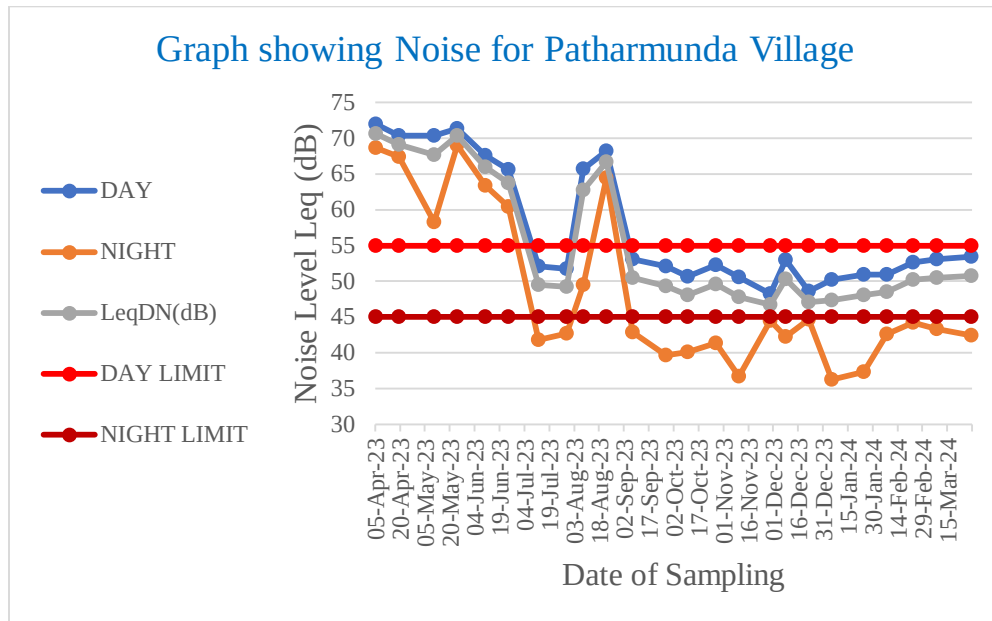


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Table:10.18
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Patharmunda Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	72	68.7	70.7
19-Apr-23	70.4	67.4	69.2
10-May-23	70.4	58.3	67.6
24-May-23	71.4	69	70.4
10-Jun-23	67.6	63.4	66.0
24-Jun-23	65.6	60.4	63.7
12-Jul-23	52.1	41.8	49.5
29-Jul-23	51.7	42.7	49.2
08-Aug-23	65.7	49.5	62.8
22-Aug-23	68.2	64.5	66.7
07-Sep-23	53.1	42.9	50.5
27-Sep-23	52.1	39.6	49.3
10-Oct-23	50.7	40.1	48.1
27-Oct-23	52.3	41.3	49.6
10-Nov-23	50.6	36.7	47.8
29-Nov-23	48.2	44.5	46.7
08-Dec-23	53	42.2	50.3
22-Dec-23	48.6	44.7	47.1
05-Jan-24	50.2	36.2	47.4
24-Jan-24	50.9	37.3	48.1
07-Feb-24	50.9	42.6	48.5
23-Feb-24	52.6	44.2	50.2
08-Mar-24	53.1	43.3	50.5
29-Mar-24	53.4	42.4	50.7
Brief Statistic	DAY	NIGHT	Leq DN
MIN	48.2	36.2	46.7
MAX	72.0	69.0	70.7
MEAN	57.28	48.49	55.0

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)

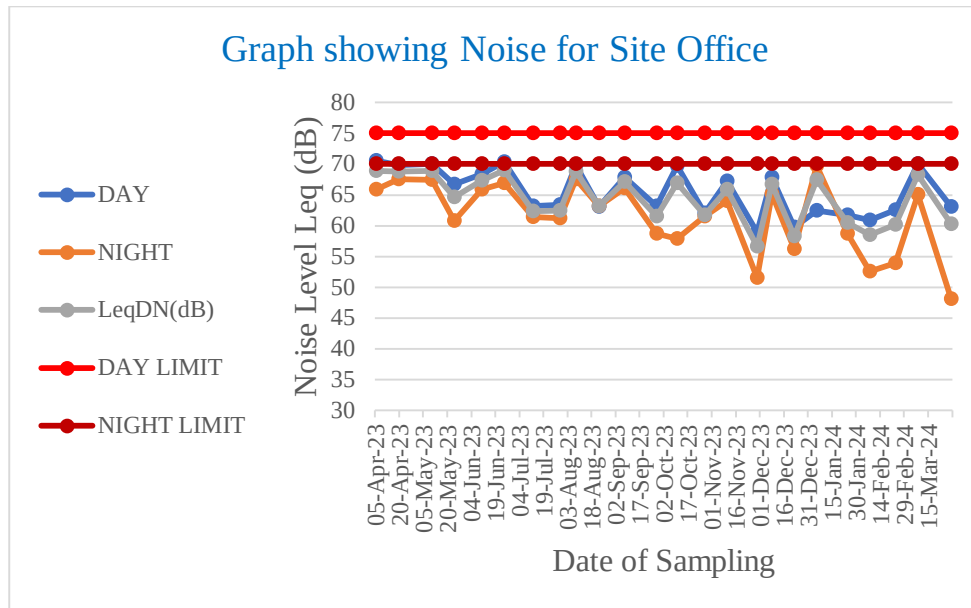


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Table:10.19
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Site Office

DATE	DAY	NIGHT	Leq DN
05-Apr-23	70.6	65.9	68.9
19-Apr-23	69.8	67.6	68.8
10-May-23	70.1	67.4	69.0
24-May-23	66.7	60.8	64.7
10-Jun-23	68.4	65.9	67.3
24-Jun-23	70.4	66.9	69.0
12-Jul-23	63.2	61.4	62.4
29-Jul-23	63.4	61.2	62.4
08-Aug-23	69.8	67.5	68.8
22-Aug-23	63.1	63.2	63.2
07-Sep-23	67.9	66.1	67.1
27-Sep-23	63.2	58.7	61.5
10-Oct-23	69.7	57.9	67.0
27-Oct-23	62	61.5	61.8
10-Nov-23	67.2	64	65.9
29-Nov-23	58.9	51.5	56.6
08-Dec-23	67.9	65.2	66.8
22-Dec-23	59.7	56.2	58.3
05-Jan-24	62.4	69.7	67.4
24-Jan-24	61.7	58.7	60.5
07-Feb-24	60.9	52.6	58.5
23-Feb-24	62.6	53.9	60.1
08-Mar-24	70.1	65.1	68.3
29-Mar-24	63.1	48.1	60.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	58.9	48.1	56.6
MAX	70.6	69.7	69.0
MEAN	65.53	61.54	64.3

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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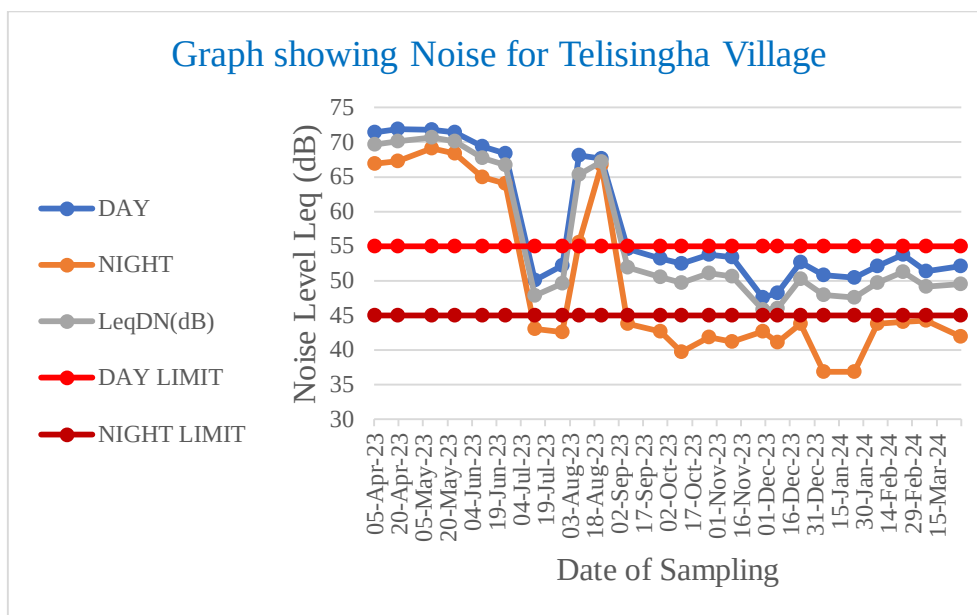
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Table:10.20
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Telisingha Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	71.4	66.9	69.7
19-Apr-23	71.9	67.3	70.2
10-May-23	71.8	69.1	70.7
24-May-23	71.4	68.4	70.2
10-Jun-23	69.4	65	67.7
24-Jun-23	68.4	64	66.7
12-Jul-23	50.1	43	47.9
29-Jul-23	52.2	42.6	49.6
08-Aug-23	68.1	55.5	65.3
22-Aug-23	67.6	66.7	67.2
07-Sep-23	54.6	43.8	51.9
27-Sep-23	53.2	42.7	50.6
10-Oct-23	52.5	39.7	49.7
27-Oct-23	53.8	41.8	51.1
10-Nov-23	53.4	41.2	50.6
29-Nov-23	47.6	42.7	45.8
08-Dec-23	48.2	41.1	46.0
22-Dec-23	52.7	43.8	50.2
05-Jan-24	50.8	36.8	48.0
24-Jan-24	50.4	36.8	47.6
07-Feb-24	52.1	43.8	49.7
23-Feb-24	53.8	44.1	51.2
08-Mar-24	51.4	44.2	49.1
29-Mar-24	52.1	41.9	49.5
Brief Statistic	DAY	NIGHT	Leq DN
MIN	47.6	36.8	45.8
MAX	71.9	69.1	70.7
MEAN	57.87	49.70	55.7

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)

Graph showing Noise for Telisingha Village



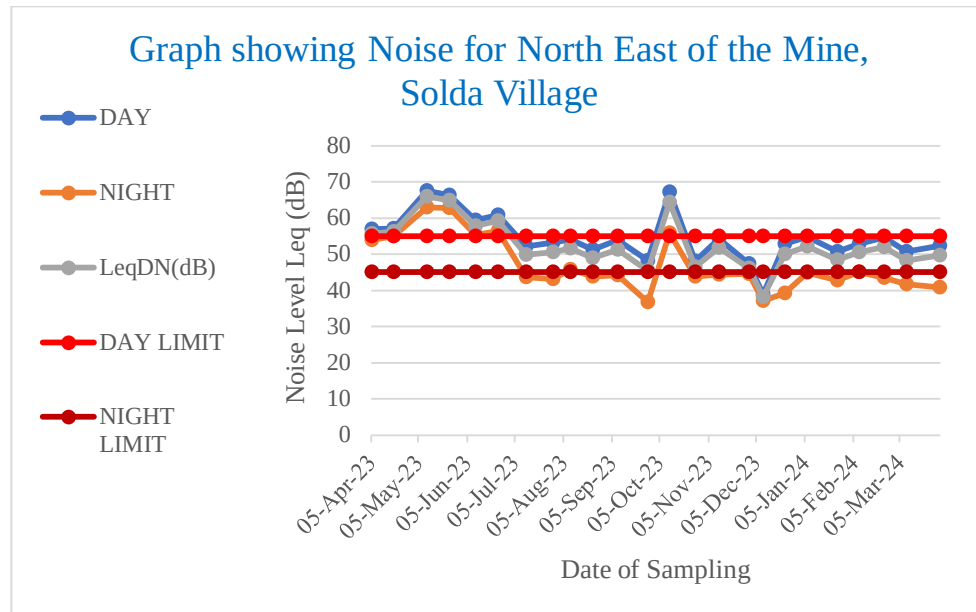
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Table:10.21

Area: Hingula**Project:** Hingula OCP**Monitoring Station:** North East of the Mine, Solda Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	56.9	53.9	55.7
19-Apr-23	57.1	54.9	56.1
10-May-23	67.6	63	65.9
24-May-23	66.3	62.8	64.9
10-Jun-23	59.4	55.3	57.8
24-Jun-23	60.8	56.4	59.1
12-Jul-23	52.2	43.7	49.8
29-Jul-23	53.2	43.1	50.6
09-Aug-23	54.1	45.8	51.7
23-Aug-23	51.3	43.9	49.0
08-Sep-23	53.9	44.1	51.3
27-Sep-23	48.2	36.8	45.5
11-Oct-23	67.1	55.9	64.4
27-Oct-23	48.1	43.8	46.5
11-Nov-23	54.3	44.3	51.7
30-Nov-23	47.3	44.5	46.1
09-Dec-23	38.9	37.1	38.1
23-Dec-23	52.8	39.3	50.0
06-Jan-24	54.8	44.9	52.2
25-Jan-24	50.7	42.8	48.3
08-Feb-24	52.9	45	50.5
24-Feb-24	54.6	43.5	51.9
09-Mar-24	50.7	41.7	48.2
30-Mar-24	52.4	40.8	49.7
Brief Statistic	DAY	NIGHT	Leq DN
MIN	38.9	36.8	38.1
MAX	67.6	63.0	65.9
MEAN	54.40	46.97	52.3

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)

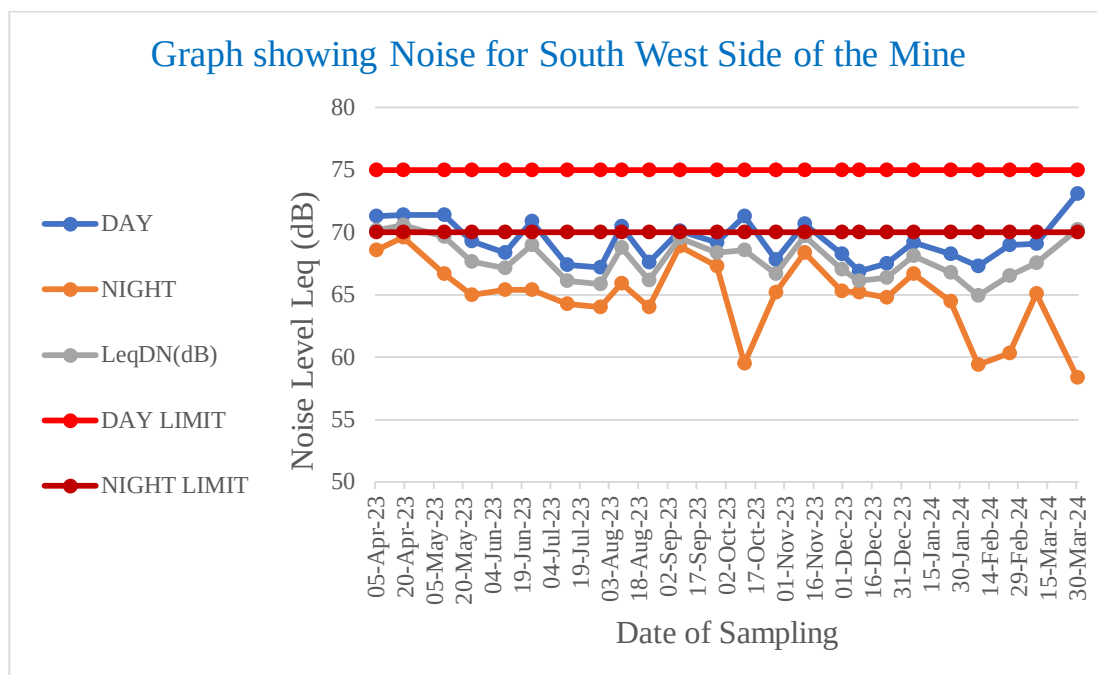


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Table:10.22
Area: Hingula
Project: Hingula OCP
Monitoring Station: South West Side of the Mine

DATE	DAY	NIGHT	Leq DN
05-Apr-23	71.3	68.6	70.2
19-Apr-23	71.4	69.6	70.6
10-May-23	71.4	66.7	69.7
24-May-23	69.3	65	67.7
10-Jun-23	68.4	65.4	67.2
24-Jun-23	70.9	65.4	69.0
12-Jul-23	67.4	64.3	66.1
29-Jul-23	67.2	64	65.9
09-Aug-23	70.5	65.9	68.8
23-Aug-23	67.6	64	66.2
08-Sep-23	70.1	68.9	69.5
27-Sep-23	69.2	67.3	68.4
11-Oct-23	71.3	59.5	68.6
27-Oct-23	67.8	65.2	66.7
11-Nov-23	70.7	68.4	69.7
30-Nov-23	68.3	65.3	67.1
09-Dec-23	66.9	65.2	66.1
23-Dec-23	67.5	64.8	66.4
06-Jan-24	69.2	66.7	68.1
25-Jan-24	68.3	64.5	66.8
08-Feb-24	67.3	59.4	64.9
24-Feb-24	69	60.3	66.5
09-Mar-24	69.1	65.1	67.5
30-Mar-24	73.1	58.4	70.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	66.9	58.4	64.9
MAX	73.1	69.6	70.6
MEAN	69.30	64.91	67.8

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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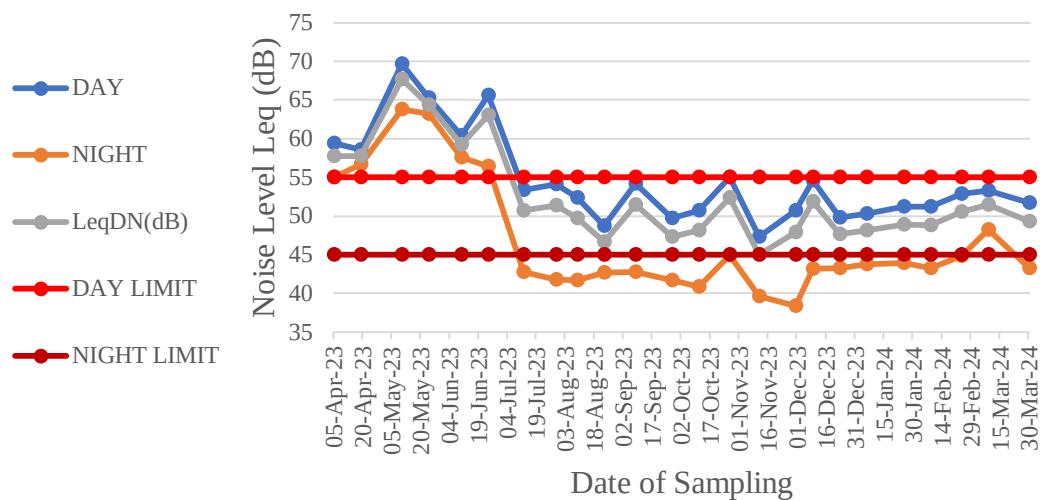
Table:10.23

Area: Hingula**Project:** Hingula OCP**Monitoring Station:** North of the Mine, Purnapi Kumunda Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	59.4	55	57.7
19-Apr-23	58.6	56.7	57.8
10-May-23	69.7	63.8	67.7
24-May-23	65.3	63.2	64.4
10-Jun-23	60.4	57.6	59.2
24-Jun-23	65.6	56.4	63.1
12-Jul-23	53.4	42.8	50.8
29-Jul-23	54.1	41.8	51.3
09-Aug-23	52.4	41.7	49.7
23-Aug-23	48.7	42.7	46.7
08-Sep-23	54.2	42.8	51.5
27-Sep-23	49.7	41.7	47.3
11-Oct-23	50.7	40.9	48.1
27-Oct-23	55	44.9	52.4
11-Nov-23	47.3	39.6	45.0
30-Nov-23	50.7	38.4	47.9
09-Dec-23	54.6	43.2	51.9
23-Dec-23	49.8	43.3	47.7
06-Jan-24	50.3	43.8	48.2
25-Jan-24	51.2	43.9	48.9
08-Feb-24	51.2	43.3	48.8
24-Feb-24	52.9	44.8	50.5
09-Mar-24	53.3	48.2	51.5
30-Mar-24	51.7	43.3	49.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	47.3	38.4	45.0
MAX	69.7	63.8	67.7
MEAN	54.59	46.83	52.4

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)

Graph showing Noise for North of the Mine, Purnapi
Kumunda Village

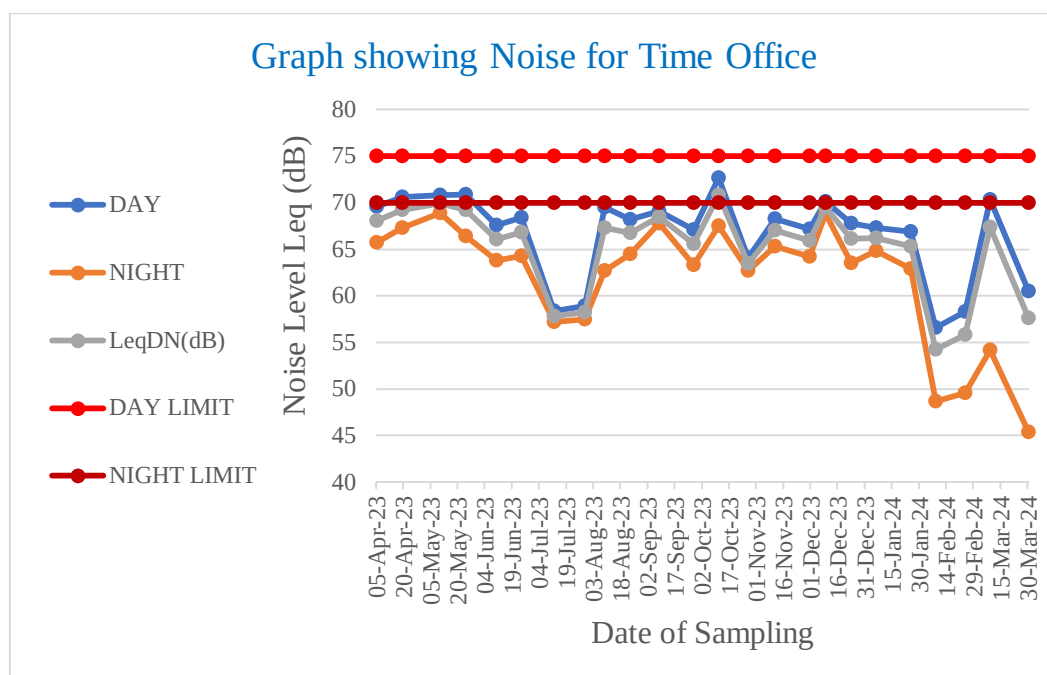


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Table:10.24
Area: Hingula
Project: Hingula OCP
Monitoring Station: Time Office

DATE	DAY	NIGHT	Leq DN
05-Apr-23	69.6	65.7	68.1
19-Apr-23	70.6	67.3	69.3
10-May-23	70.8	68.9	70.0
24-May-23	70.9	66.4	69.2
10-Jun-23	67.6	63.8	66.1
24-Jun-23	68.4	64.3	66.8
12-Jul-23	58.4	57.2	57.8
29-Jul-23	58.9	57.5	58.3
09-Aug-23	69.5	62.7	67.3
23-Aug-23	68.2	64.5	66.7
08-Sep-23	69.1	67.8	68.5
27-Sep-23	67.1	63.3	65.6
11-Oct-23	72.7	67.5	70.8
27-Oct-23	64.1	62.7	63.5
11-Nov-23	68.3	65.3	67.1
30-Nov-23	67.2	64.2	66.0
09-Dec-23	70.1	68.8	69.5
23-Dec-23	67.8	63.5	66.2
06-Jan-24	67.3	64.8	66.2
25-Jan-24	66.9	62.9	65.3
08-Feb-24	56.6	48.7	54.2
24-Feb-24	58.3	49.6	55.8
09-Mar-24	70.3	54.2	67.4
30-Mar-24	60.5	45.4	57.6
Brief Statistic	DAY	NIGHT	Leq DN
MIN	56.6	45.4	54.2
MAX	72.7	68.9	70.8
MEAN	66.63	61.96	65.1

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)



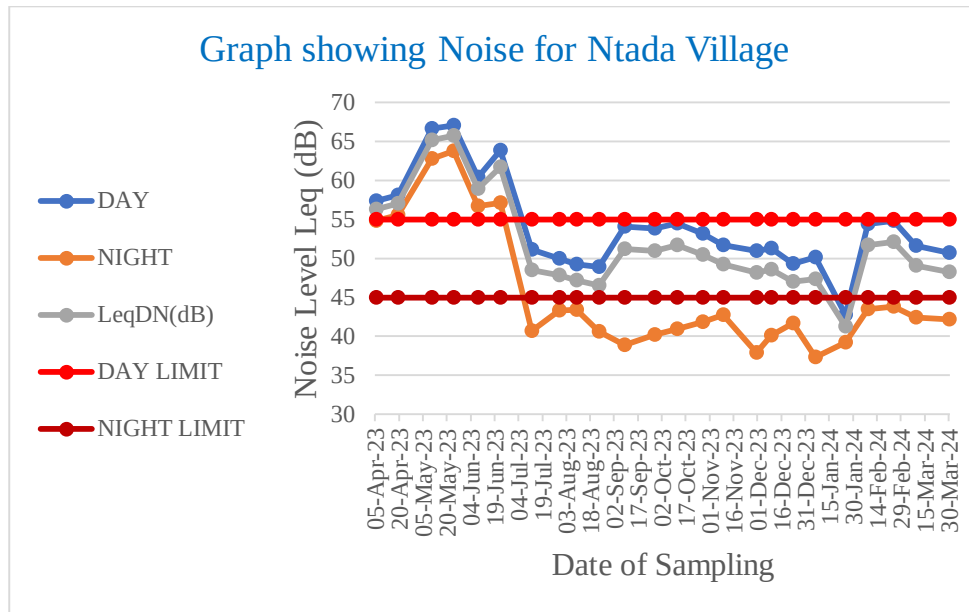
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Table:10.25
Area: Hingula
Project: Balaram OCP
Monitoring Station: Natada Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	57.4	54.8	56.3
19-Apr-23	58.1	55.6	57.0
10-May-23	66.7	62.8	65.2
24-May-23	67.1	63.8	65.8
08-Jun-23	60.4	56.7	58.9
22-Jun-23	63.9	57.1	61.7
12-Jul-23	51.1	40.7	48.5
29-Jul-23	50	43.3	47.8
09-Aug-23	49.2	43.4	47.2
23-Aug-23	48.9	40.6	46.5
08-Sep-23	54.1	38.9	51.2
27-Sep-23	53.8	40.2	51.0
11-Oct-23	54.5	40.9	51.7
27-Oct-23	53.2	41.8	50.5
09-Nov-23	51.7	42.7	49.2
30-Nov-23	51	37.9	48.2
09-Dec-23	51.3	40.1	48.6
23-Dec-23	49.3	41.7	47.0
06-Jan-24	50.1	37.3	47.3
25-Jan-24	42.7	39.2	41.3
08-Feb-24	54.4	43.5	51.7
24-Feb-24	54.8	43.8	52.1
09-Mar-24	51.6	42.4	49.1
30-Mar-24	50.7	42.2	48.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	42.7	37.3	41.3
MAX	67.1	63.8	65.8
MEAN	54.00	45.48	51.8

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)

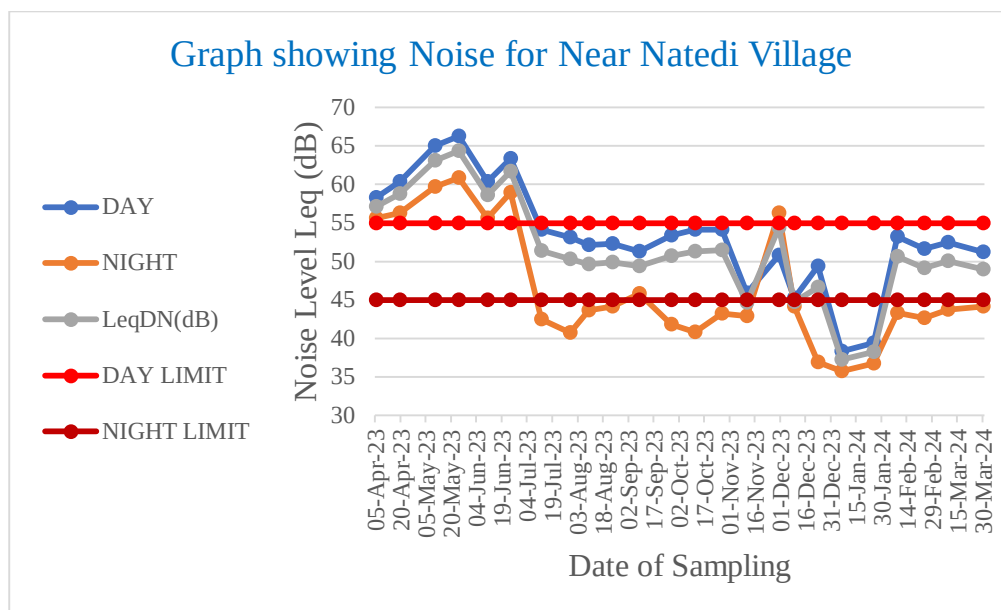


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Table:10.26
Area: Hingula
Project: Balaram OCP
Monitoring Station: Near Natedi Village

DATE	DAY	NIGHT	Leq DN
05-Apr-23	58.3	55.6	57.2
19-Apr-23	60.4	56.3	58.8
10-May-23	65	59.7	63.1
24-May-23	66.3	60.9	64.4
10-Jun-23	60.4	55.6	58.6
24-Jun-23	63.4	59	61.7
12-Jul-23	54.1	42.5	51.4
29-Jul-23	53.1	40.7	50.3
09-Aug-23	52.1	43.6	49.7
23-Aug-23	52.3	44.1	49.9
08-Sep-23	51.3	45.8	49.4
27-Sep-23	53.4	41.8	50.7
11-Oct-23	54.1	40.8	51.3
27-Oct-23	54.1	43.2	51.4
11-Nov-23	45.9	42.9	44.7
30-Nov-23	50.8	56.3	54.4
09-Dec-23	45.2	44.1	44.7
23-Dec-23	49.4	36.9	46.6
06-Jan-24	38.3	35.7	37.2
25-Jan-24	39.4	36.7	38.3
08-Feb-24	53.2	43.3	50.6
24-Feb-24	51.6	42.6	49.1
09-Mar-24	52.5	43.7	50.0
30-Mar-24	51.2	44.1	49.0
Brief Statistic	DAY	NIGHT	Leq DN
MIN	38.3	35.7	37.2
MAX	66.3	60.9	64.4
MEAN	53.16	46.50	51.3

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)



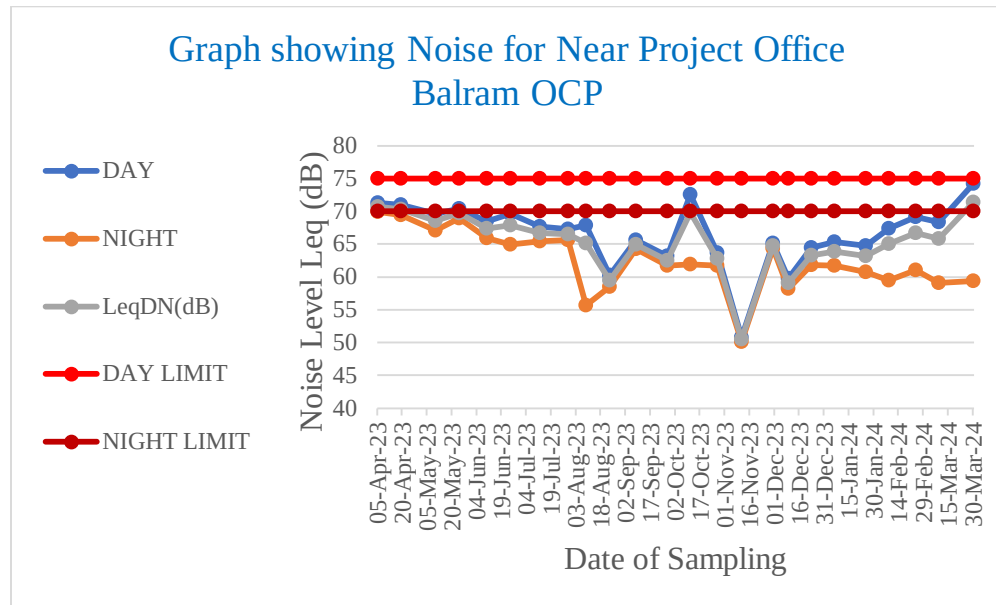
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Table:10.27
Area: Hingula
Project: Balaram OCP
Monitoring Station Near Project Office Balram OCP

DATE	DAY	NIGHT	Leq DN
05-Apr-23	71.3	69.9	70.7
19-Apr-23	71	69.4	70.3
10-May-23	69.6	67.1	68.5
24-May-23	70.4	68.9	69.7
10-Jun-23	68.4	65.9	67.3
24-Jun-23	69.6	64.9	67.9
12-Jul-23	67.7	65.4	66.7
29-Jul-23	67.3	65.6	66.5
09-Aug-23	67.9	55.7	65.1
23-Aug-23	60.2	58.5	59.4
08-Sep-23	65.6	64.2	65.0
27-Sep-23	63.2	61.7	62.5
11-Oct-23	72.5	61.9	69.9
27-Oct-23	63.7	61.7	62.8
11-Nov-23	50.8	50.1	50.5
30-Nov-23	65.1	64.3	64.7
09-Dec-23	59.8	58.2	59.1
23-Dec-23	64.4	61.8	63.3
06-Jan-24	65.3	61.7	63.9
25-Jan-24	64.7	60.7	63.1
08-Feb-24	67.4	59.5	65.0
24-Feb-24	69.1	61	66.7
09-Mar-24	68.3	59.1	65.8
30-Mar-24	74.2	59.4	71.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	50.8	50.1	50.5
MAX	74.2	69.9	71.3
MEAN	66.56	62.36	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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Table:10.28

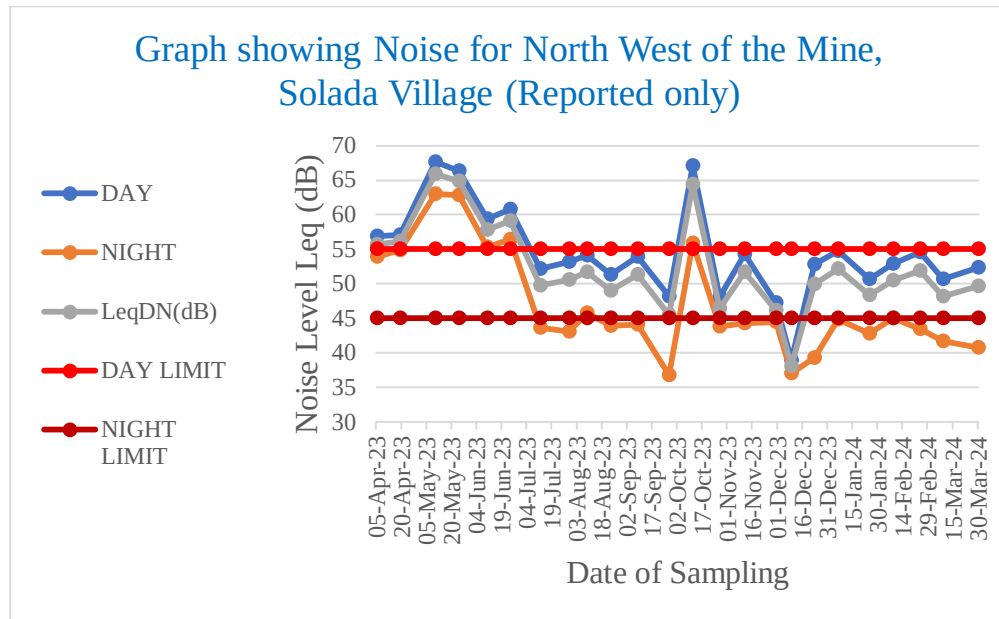
Area: Hingula

Project: Balaram OCP

Monitoring Station North West of the Mine, Solada Village (Reported only)

DATE	DAY	NIGHT	Leq DN
05-Apr-23	56.9	53.9	55.7
19-Apr-23	57.1	54.9	56.1
10-May-23	67.6	63	65.9
24-May-23	66.3	62.8	64.9
10-Jun-23	59.4	55.3	57.8
24-Jun-23	60.8	56.4	59.1
12-Jul-23	52.2	43.7	49.8
29-Jul-23	53.2	43.1	50.6
09-Aug-23	54.1	45.8	51.7
23-Aug-23	51.3	43.9	49.0
08-Sep-23	53.9	44.1	51.3
27-Sep-23	48.2	36.8	45.5
11-Oct-23	67.1	55.9	64.4
27-Oct-23	48.1	43.8	46.5
11-Nov-23	54.3	44.3	51.7
30-Nov-23	47.3	44.5	46.1
09-Dec-23	38.9	37.1	38.1
23-Dec-23	52.8	39.3	50.0
06-Jan-24	54.8	44.9	52.2
25-Jan-24	50.7	42.8	48.3
08-Feb-24	52.9	45	50.5
24-Feb-24	54.6	43.5	51.9
09-Mar-24	50.7	41.7	48.2
30-Mar-24	52.4	40.8	49.7
Brief Statistic	DAY	NIGHT	Leq DN
MIN	38.9	36.8	38.1
MAX	67.6	63.0	65.9
MEAN	54.40	46.97	52.3

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:10.29

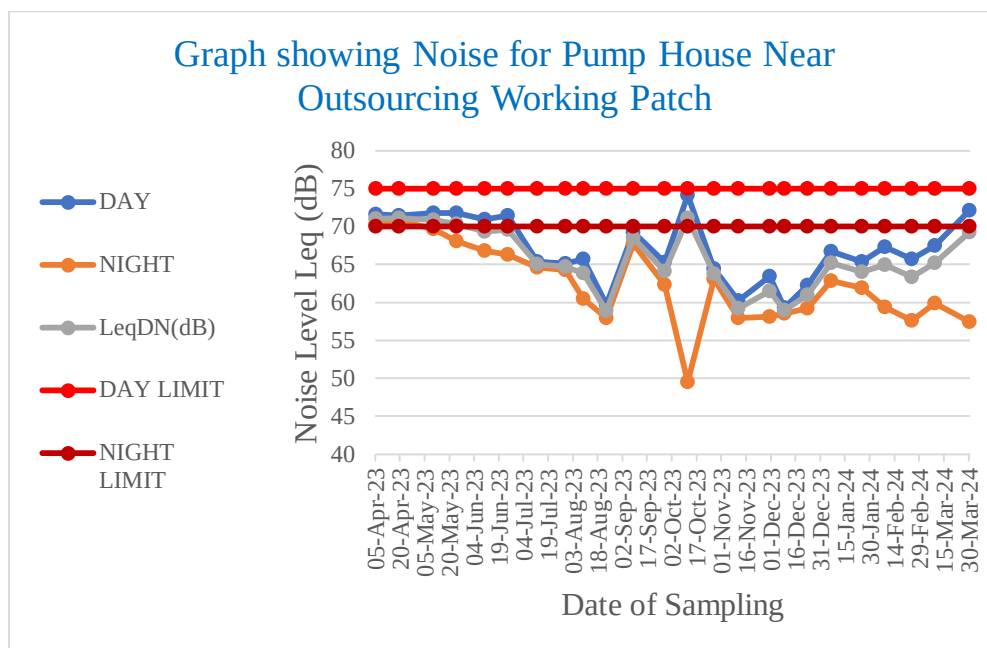
Area: Hingula

Project: Balaram OCP

Monitoring Station Pump House Near Outsourcing Working Patch

DATE	DAY	NIGHT	Leq DN
05-Apr-23	71.6	70.3	71.0
19-Apr-23	71.4	70.8	71.1
10-May-23	71.8	69.7	70.9
24-May-23	71.8	68.1	70.3
10-Jun-23	70.9	66.8	69.3
24-Jun-23	71.4	66.3	69.6
12-Jul-23	65.4	64.6	65.0
29-Jul-23	65.1	64.3	64.7
09-Aug-23	65.7	60.5	63.8
23-Aug-23	59.7	57.9	58.9
08-Sep-23	69.2	67.7	68.5
27-Sep-23	65.3	62.3	64.1
11-Oct-23	74.1	49.5	71.1
27-Oct-23	64.4	63.1	63.8
11-Nov-23	60.2	57.9	59.2
30-Nov-23	63.4	58.1	61.5
09-Dec-23	59.3	58.5	58.9
23-Dec-23	62.2	59.2	61.0
06-Jan-24	66.7	62.8	65.2
25-Jan-24	65.4	61.9	64.0
08-Feb-24	67.3	59.4	64.9
24-Feb-24	65.7	57.6	63.3
09-Mar-24	67.5	59.9	65.2
30-Mar-24	72.1	57.4	69.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	59.3	49.5	58.9
MAX	74.1	70.8	71.1
MEAN	66.98	62.28	65.6

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)

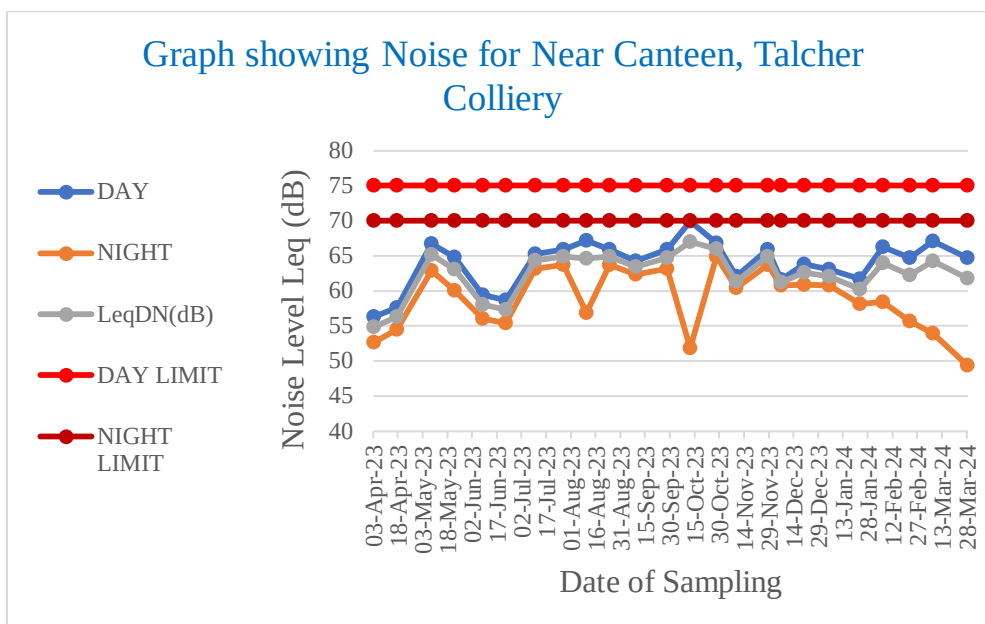


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Table:10.30
Area Talcher
Project: Talcher Colliery
Monitoring Station Near Canteen, Talcher Colliery

DATE	DAY	NIGHT	Leq DN
03-Apr-23	56.3	52.7	54.9
17-Apr-23	57.6	54.5	56.3
08-May-23	66.7	62.9	65.2
22-May-23	64.8	60.1	63.1
08-Jun-23	59.4	56	58.0
22-Jun-23	58.7	55.4	57.4
10-Jul-23	65.3	63.2	64.4
27-Jul-23	65.9	63.7	64.9
10-Aug-23	67.2	56.9	64.6
24-Aug-23	65.9	63.7	64.9
09-Sep-23	64.3	62.3	63.4
28-Sep-23	65.9	63.2	64.8
12-Oct-23	69.9	51.8	67.0
28-Oct-23	66.8	64.9	66.0
09-Nov-23	62.1	60.4	61.3
28-Nov-23	65.9	63.7	64.9
06-Dec-23	61.6	60.8	61.2
20-Dec-23	63.8	60.9	62.6
04-Jan-24	63.1	60.8	62.1
23-Jan-24	61.7	58.1	60.3
06-Feb-24	66.3	58.4	63.9
22-Feb-24	64.7	55.7	62.2
07-Mar-24	67.1	53.9	64.3
28-Mar-24	64.7	49.4	61.8
Brief Statistic	DAY	NIGHT	Leq DN
MIN	56.3	49.4	54.9
MAX	69.9	64.9	67.0
MEAN	63.99	58.89	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)



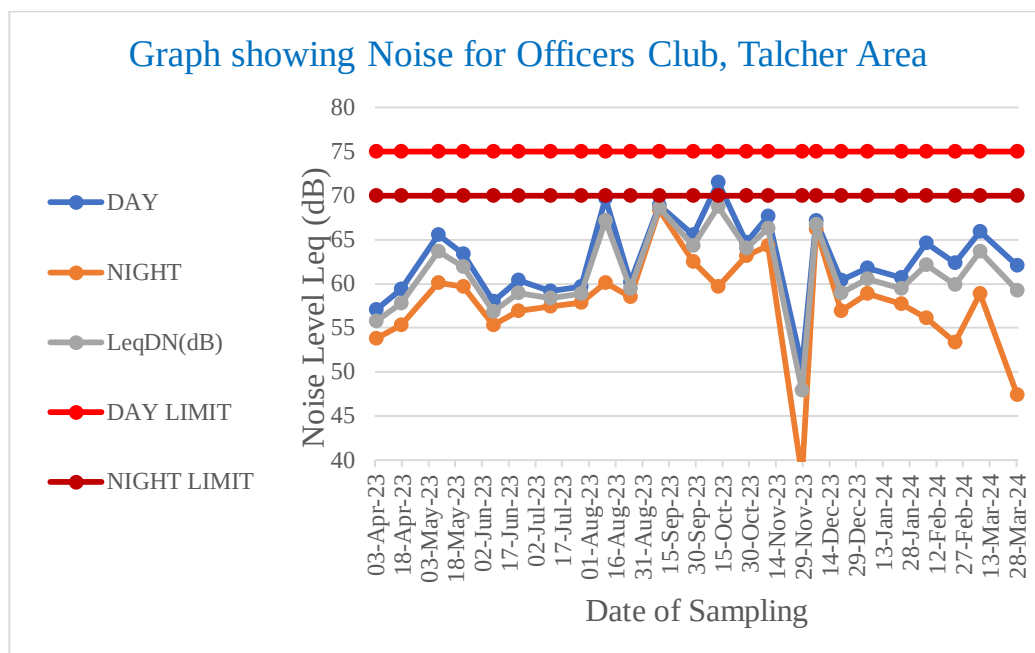
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Table:10.31
Area Talcher
Project: Talcher Colliery
Monitoring Station Officers Club, Talcher Area

DATE	DAY	NIGHT	Leq DN
03-Apr-23	57.1	53.8	55.8
17-Apr-23	59.4	55.3	57.8
08-May-23	65.6	60.1	63.7
22-May-23	63.4	59.7	61.9
08-Jun-23	58	55.3	56.9
22-Jun-23	60.4	56.9	59.0
10-Jul-23	59.2	57.4	58.4
27-Jul-23	59.7	57.9	58.9
10-Aug-23	69.7	60.1	67.1
24-Aug-23	60.2	58.5	59.4
09-Sep-23	68.9	68.4	68.7
28-Sep-23	65.6	62.5	64.3
12-Oct-23	71.5	59.7	68.8
28-Oct-23	64.7	63.2	64.0
09-Nov-23	67.7	64.3	66.3
28-Nov-23	50.7	38.2	47.9
06-Dec-23	67.2	66.2	66.7
20-Dec-23	60.4	56.9	59.0
04-Jan-24	61.8	58.9	60.6
23-Jan-24	60.7	57.7	59.5
06-Feb-24	64.6	56.1	62.2
22-Feb-24	62.4	53.4	59.9
07-Mar-24	65.9	58.9	63.7
28-Mar-24	62.1	47.4	59.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	50.7	38.2	47.9
MAX	71.5	68.4	68.8
MEAN	62.79	57.78	61.2

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)



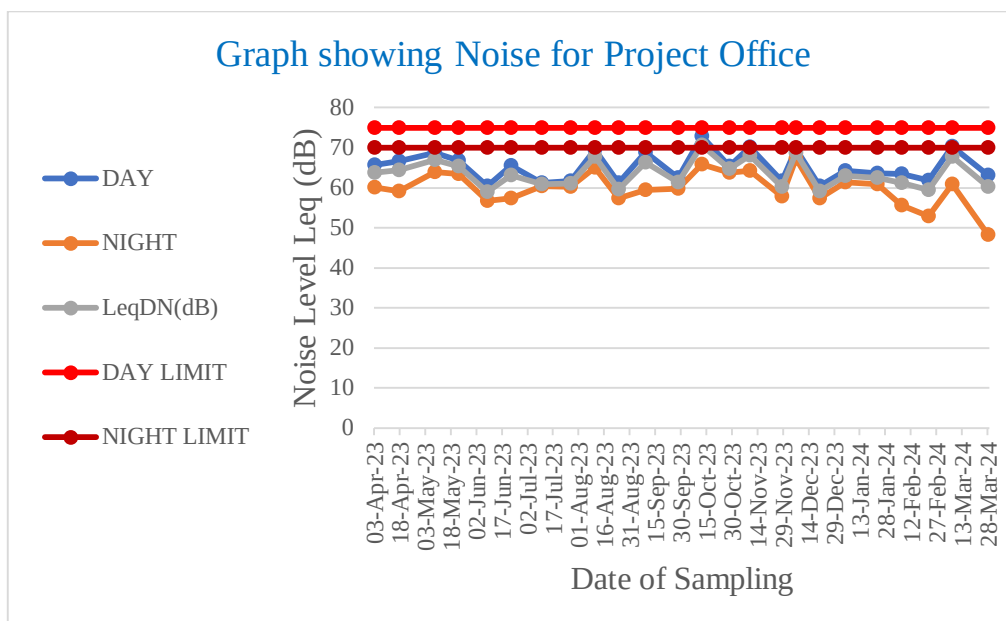
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Table:10.32
Area Talcher
Project: Nandira Colliery
Monitoring Station Project Office

DATE	DAY	NIGHT	Leq DN
03-Apr-23	65.7	60.1	63.7
17-Apr-23	66.7	59.1	64.4
08-May-23	68.7	64	67.0
22-May-23	66.8	63.4	65.4
08-Jun-23	60.4	56.7	58.9
22-Jun-23	65.6	57.4	63.2
10-Jul-23	61.2	60.4	60.8
27-Jul-23	61.7	60.2	61.0
10-Aug-23	69.5	65.1	67.8
24-Aug-23	61.2	57.3	59.7
09-Sep-23	68.9	59.4	66.4
28-Sep-23	62.5	59.8	61.4
12-Oct-23	72.8	65.8	70.6
28-Oct-23	65.4	63.8	64.7
09-Nov-23	70.1	64.3	68.1
28-Nov-23	61.7	57.9	60.2
06-Dec-23	69.7	67.3	68.7
20-Dec-23	60.4	57.3	59.1
04-Jan-24	64.2	61.3	63.0
23-Jan-24	63.6	60.9	62.5
06-Feb-24	63.5	55.6	61.1
22-Feb-24	61.9	52.9	59.4
07-Mar-24	70.3	60.9	67.8
28-Mar-24	63.2	48.2	60.3
Brief Statistic	DAY	NIGHT	Leq DN
MIN	60.4	48.2	58.9
MAX	72.8	67.3	70.6
MEAN	65.24	59.96	63.5

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)



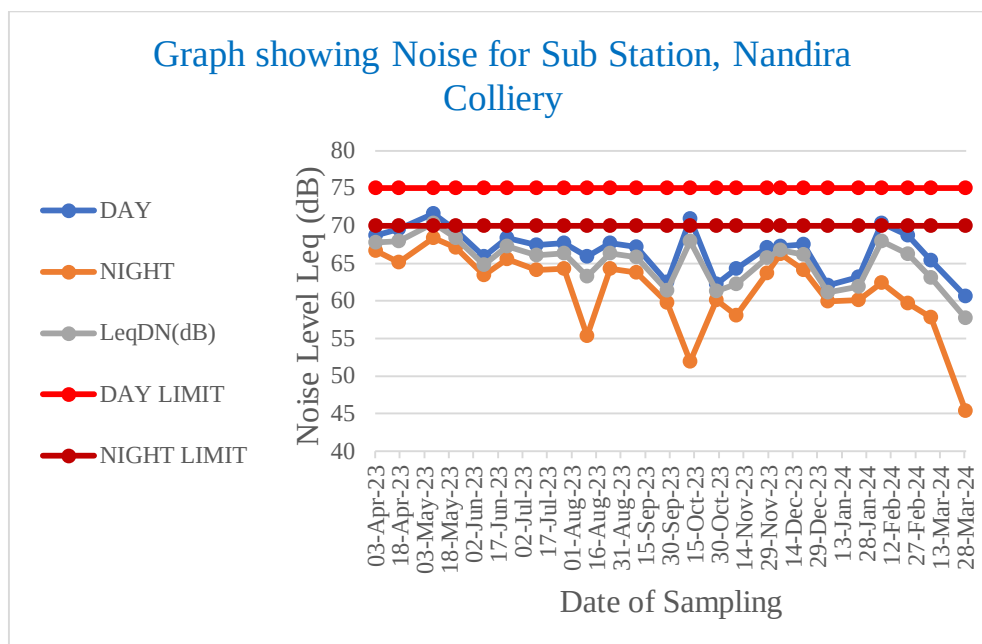
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Table:10.33
Area Talcher
Project: Nandira Colliery
Monitoring Station Sub Station, Nandira Colliery

DATE	DAY	NIGHT	Leq DN
03-Apr-23	68.7	66.7	67.8
17-Apr-23	69.6	65.1	67.9
08-May-23	71.6	68.4	70.3
22-May-23	69.4	67.1	68.4
08-Jun-23	65.9	63.4	64.8
22-Jun-23	68.4	65.6	67.2
10-Jul-23	67.4	64.1	66.1
27-Jul-23	67.7	64.3	66.3
10-Aug-23	65.9	55.3	63.3
24-Aug-23	67.7	64.3	66.3
09-Sep-23	67.2	63.8	65.8
28-Sep-23	62.5	59.8	61.4
12-Oct-23	70.9	51.9	67.9
28-Oct-23	62.2	60.1	61.3
09-Nov-23	64.3	58.1	62.2
28-Nov-23	67.1	63.7	65.7
06-Dec-23	67.3	66.2	66.8
20-Dec-23	67.5	64.1	66.1
04-Jan-24	62.1	59.9	61.1
23-Jan-24	63.2	60.1	61.9
06-Feb-24	70.3	62.4	67.9
22-Feb-24	68.7	59.7	66.2
07-Mar-24	65.4	57.8	63.1
28-Mar-24	60.6	45.4	57.7
Brief Statistic	DAY	NIGHT	Leq DN
MIN	60.6	45.4	57.7
MAX	71.6	68.4	70.3
MEAN	66.73	61.55	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)



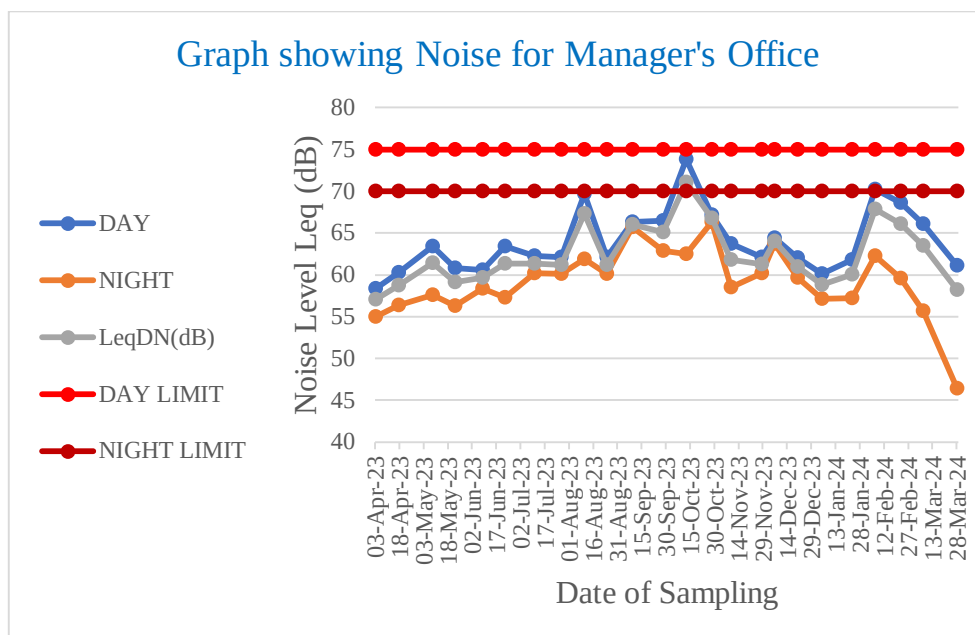
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Table:10.34
Area Talcher
Project: Deulbera Colliery
Monitoring Station Manager's Office

DATE	DAY	NIGHT	Leq DN
03-Apr-23	58.4	55	57.0
17-Apr-23	60.3	56.4	58.8
08-May-23	63.4	57.6	61.4
22-May-23	60.8	56.3	59.1
08-Jun-23	60.6	58.4	59.6
22-Jun-23	63.4	57.3	61.3
10-Jul-23	62.3	60.2	61.4
27-Jul-23	62.1	60.1	61.2
10-Aug-23	69.7	61.9	67.4
24-Aug-23	62.1	60.1	61.2
09-Sep-23	66.3	65.7	66.0
28-Sep-23	66.5	62.9	65.1
12-Oct-23	73.8	62.5	71.1
28-Oct-23	67.2	66.3	66.8
09-Nov-23	63.7	58.5	61.8
28-Nov-23	62.1	60.2	61.3
06-Dec-23	64.4	63.7	64.1
20-Dec-23	62	59.7	61.0
04-Jan-24	60.1	57.1	58.9
23-Jan-24	61.8	57.2	60.1
06-Feb-24	70.2	62.3	67.8
22-Feb-24	68.6	59.6	66.1
07-Mar-24	66.1	55.7	63.5
28-Mar-24	61.1	46.4	58.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	58.4	46.4	57.0
MAX	73.8	66.3	71.1
MEAN	64.04	59.21	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)



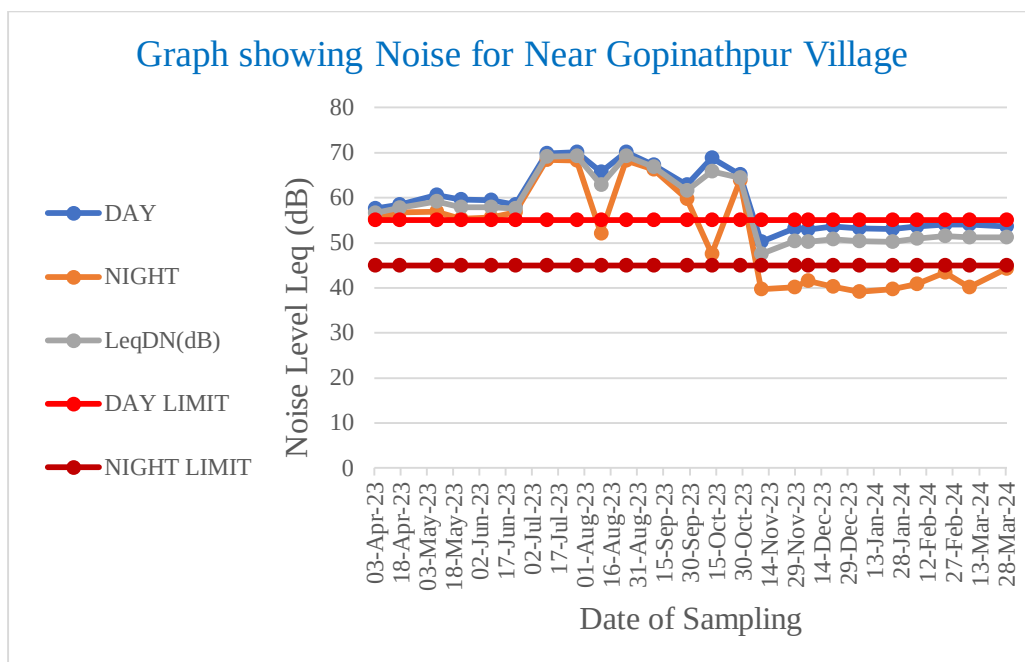
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Table:10.35
Area Talcher
Project: Mandapal Sand Mine
Monitoring Station Near Gopinathpur Village

DATE	DAY	NIGHT	Leq DN
03-Apr-23	57.6	55.3	56.6
17-Apr-23	58.5	56.7	57.7
08-May-23	60.6	56.9	59.1
22-May-23	59.6	55.3	58.0
08-Jun-23	59.4	55.6	57.9
22-Jun-23	58.4	56.7	57.6
10-Jul-23	69.8	68.4	69.2
27-Jul-23	70.1	68.3	69.3
10-Aug-23	65.7	52.1	62.9
24-Aug-23	70.1	68.3	69.3
09-Sep-23	67.3	66.3	66.8
28-Sep-23	62.8	59.7	61.5
12-Oct-23	68.9	47.5	65.9
28-Oct-23	65.1	63.8	64.5
09-Nov-23	50.2	39.7	47.6
28-Nov-23	53.2	40.1	50.4
06-Dec-23	52.9	41.6	50.2
20-Dec-23	53.6	40.3	50.8
04-Jan-24	53.2	39.2	50.4
23-Jan-24	53.1	39.7	50.3
06-Feb-24	53.7	40.8	50.9
22-Feb-24	54.1	43.4	51.4
07-Mar-24	54.1	40.2	51.3
28-Mar-24	53.7	44.3	51.2
Brief Statistic	DAY	NIGHT	Leq DN
MIN	50.2	39.2	47.6
MAX	70.1	68.4	69.3
MEAN	59.40	51.68	57.5

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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Fig: showing noise measurement at TCF



W4QJ+R5, Deracolliery Twp, Odisha 759103, India

**Deracolliery Township
Odisha
India**

Latitude

Decimal

DMS

20.939277 20°56'21" N

Longitude

85.131551 85°7'53" E



W3M8+W4H, Natada, Odisha 759123, India

Natada
Odisha
India

	Decimal	DMS
Latitude	20.93457	20°56'4" N
Longitude	85.066433	85°3'59" E



W3FX+GJM, Natedi, Baulapur, Odisha 759103, India

Natedi
Odisha
India

	Decimal	DMS
Latitude	20.922759	20°55'21" N
Longitude	85.09962	85°5'58" E



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