



MCL

A Subsidiary of Coal India Limited

REM ANNUAL REPORT 2021-22

IB VALLEY COALFIELD

CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD, RI VII,

BHUBANESWAR

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A Mini Ratna Company

REPORT TITLE

**COMPANY NAME MAHANADI COALFIELDS LIMITED,
JAGRUTI VIHAR, BURLA, SAMBALPUR
– 768020**

SITE LOCATION IB Valley Coalfield

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JOB NO.750001

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1. IB VALLEY COALFIELD

INTRODUCTION

IB-Valley coalfield is an important coalfields of the country which is a part of Mahanadi Coalfields Limited (MCL), fully owned subsidiary of Coal India Limited a *Maharatna* company.

The coalfield lies in the western part Odisha, located between latitudes 21°31' & 22°14'N and longitudes 83°32' & 84°10'E within the districts of Sundergarh, Jharsuguda and Sambalpur. Ib-valley coalfield covers an area of about 1460 Sq. Kms. & is named after the river Ib, a tributary of river Mahanadi, which passes through the eastern fringe of the coalfield. Coal reserves in Ib Valley coalfields as per UNFC as on 01-04-2011 is 2546.96 MT.

MCL realized 168.17 Metric tonne (MT) of coal production in the year 2021-2022 of which Ib Valley coalfield contributed 71.434 MT coal production. Coal offtake of 176.17 MT was realized by MCL in the year 2021-2022.

Ib valley coalfield which comprises south-eastern most part of NW-SE trending Son-Mahanadi valley of Gondwana basin forms a half elliptical basin with a linear NW-SE trend. The trend of this synclinal Gondwana basin bears close parallelism to the structural configuration of the basement pre-cambrian rocks. The coalfield is connected with Talcher coalfield by a thin narrow strip of Talcher formation. The boundary between Mand-Raigarh and Ib Valley coalfield is administrative boundary of Orissa and Chhatisgarh states.

Barakar and Karharbari are the two potential coal bearing formations in Ib Valley coalfield, Barakar formation is the store house of majority of coal seams. The potential coal bearing area (excluding Kamthis, non coal bearing Lower Karharbari Formation) of the coalfield is about 1000 sq. km stretching along the south, east and northern periphery of the coalfield. Based on exploration carried out in

the coalfield, five coal horizons viz. Ib, Rampur, Lajkura, Parkhani and Belpahar have been identified in ascending order. Most of the coal seams are split into 2 to 7 sections.

Table 1

Coal Reserves in Ib-valley coalfield as on 1.4.2019

(Reserves in million tonnes)

Depth (in meter)	Proved reserves	Indicated reserves	Inferred reserves	Total reserves
0-300	12287.21	5055.30	-	17342.51
300-600	2908.54	4522.11	3610.53	11041.18
600-1200	0.97	1235.01	-	1235.98
Total	15196.72	10812.42	3610.53	29619.67

Source CMPDI website, as on 01.04.2019

TOPOGRAPHY

The coalfield has been divided in three sectors. The coalfield area is represented by low irregular upland of undulating topography and broadly can be divided into three different units:

- i) Rugged topography -represented by hard metamorphic rocks all along the boundaries of the coalfield in the north, east and south.
- ii) Low irregular plain country of rolling topography -represented by the rocks of Barakar formations.
- iii) Hilly rough terrain -represented by the rocks of Kamthi formation including Barren measures and Raniganj formations.

The altitude of the coalfield varies widely from less than 200m to more than 600m above MSL (mean sea level). The general altitude however, varies between 200m and 350m. A series of low parallel ridges of sandstone interspaced with valleys of shales & coal

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seams are the characteristics of coal bearing Barakar formations.

The drainage system of the coalfield is controlled by Ib river, a tributary of river Mahanadi. Ib river flows from north to south and discharges in Hirakud reservoir in the south-eastern fringe of the coalfield beyond the mining areas. The Bhedan river, Lilari, Basundhara, Lamtibahal, Chelduthi and Chaturdhara nallas discharge into the river Ib and provide drainage system within the coalfield.

CLIMATE

The area experiences typical warm to hot tropical climate with temperature varying from 9°C to 49°C. Average humidity varies from 26% to 83%. Generally, the humidity is highest in August and least in March. Annual mean wind velocity is 7 Km/hr. with maximum speed of more than 20 Km/hr.

Annual mean rainfall per annum is more than 1000 mm in Odisha. Rainfall during August, 2021 in Jharsuguda district is around **382.9 mm** and around **218.8 mm** in June, 2021 as per Odisha Rainfall Monitoring System.

MINING AREA

List of approved projects with sanctioned Environmental Clearance of Ib Coalfield is as follows:

Table 2

SNo.	Name of Project	Approved EC (MTY) and Date
1	Lajkura OCP	4.5 (30-01-15)
2	Samaleswari OCP	15.00 (26-12-19)
3	Belpahar OCP	9.00 Extn. (15-01-21)
4	Lakhanpur OCP	21.00 (10-01-20)
5	Lilari OCP	0.8 (30-06-90)
6	Basundhara (W) OCP	8.0 (25-02-13)
7	Kulda OCP	19.6 (14-02-22)
8	Garjanbahal OCP	15.60 (14-02-22)

9	Siarmal OCP	Under process
10	Orient mine 1 & 2	0.87 (26-02-13)
11	Orient mine no. 3	0.69 (12-03-13)
12	Orient mine no. 4	0.5 (25-02-13)
13	Hirakhand Bundia Incl.	0.95 (26-02-13)

Total of 5 Projects were Granted EC in 2021-22

PROJECT	DETAILS	CAPACITY
BHARATPUR OCP- MAY, 2021	AMENDMENT IN EC	20.0 MTY
NATRAJ U/G- MAY, 2021	REVALIDATION	0.64 MTY
NANDIRA U/G- SEPT, 2021	AMENDMENT IN EC	0.33 MTY
KULDA OCP- FEB, 2022	EXPANSION	16.8 to 19.6 MTY (INCREMENTAL 2.8 MTY)
GARJANHBAHAL OCP-FEB, 2022	EXPANSION	13.0 to 15.6 MTY (INCREMENTAL 2.6 MTY)

COMMUNICATION

The south-eastern part of the coalfield (i.e. Rampur tract) where all the present coal mining activities are confined is situated alongside the main Howrah-Mumbai railway line of SEC Railways. The nearest rail head on this railway line is Brajrajnagar, which is situated at the focal point of the operative mines. The district headquarters township of Jharsuguda is about 14 kms away from the coalfield and is also connected by road.

The central and north-western part (i.e. Gopalpur tract) is communicable by all weathered black top road connecting Sundargarh of Odisha with Raigarh in Chhattisgarh. The distance from Sundargarh is about 42 km. The nearest railhead is Himgir on Mumbai-Howrah Railway line, about 30 to 35 km connected by black top road. Jharsuguda railway station on Jharsuguda-sambalpur-Bhubaneswar rail line of East coast railway is at a distance of about 75 km from this Gopalpur tract. The Jharsuguda airport is the nearest airport from the coalfield.

Railway line connecting Talcher with Sambalpur/Jharsuguda has been constructed and commissioned in Aug.'1998.

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2. PERFORMANCE SUMMARY

Routine Environment Monitoring (REM) work of Mahanadi Coalfields Limited (MCL) mines in Talcher and IB Valley coalfield is undertaken by CMPDI RI-VII Bhubaneswar. MCL is having an incremental coal production every year. The increase in coal production simultaneously increases the pollution load. Because of which Ministry of Environment, Forest & Climate Change (MoEF&CC) has directed MCL to undertake the Routine Environmental Monitoring in core zone & buffer zone. In order to comply with the condition of MoEF&CC, MCL has increased the periodic monitoring. Reference monitoring station (NAAQS complied) located in the buffer zone are also included to monitor & study the impact of mining on residential area in and around mines.

In the financial year 2020-2021, REC Lab, CMPDI RI 7 analysed around 11,295 samples for different parameters. In FY 2021-22 as per work order, the samples analysed were around 12,198.

With almost 8 % growth, we at REC Lab, CMPDI, RI VII plan to expand our capital and maximise our in-house testing. by starting analysis of Benzene-Benzo alpha Pyrene in water samples using Gas Chromatography (GC). It is likely to be the first Regional Institute operating GC for the analysis. A Microbiological testing lab is being made functional for testing presence of harmful coliforms in water.

Capital purchases of a second Atomic Absorption Spectrophotometer (AAS) along with a Chiller & Microwave Digester are complete to smoothly execute work at laboratory.

Table 3
Nos of Samples Air, Water & Noise (2020-2021 Vs 2021-2022)

Parameters	Total Samples done in 2020-21	Total Samples done in 2021-22	Total Samples Target for 2022-23
Air Samples	6718	7200	7608
Water Samples	1813	1830	1969
Noise Samples	2764	3168	3120

Source: Presentation from Environment Dept. CMD's meet July 2022

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Table 4**3. LIST OF MONITORING STATIONS AS PER WORK ORDER****List of Air Quality Monitoring Stations & frequency of monitoring**

Area	Project (OCP/UG)	Name of Air Monitoring Station	Type of Station
Ib Valley	Samleswari	West of the Mine	Compliance Station
		South of the Mine	Compliance Station
		East of the Mine	Compliance Station
		South-East of the Mine	Compliance Station
		Khokelmal (Reported Only)	
	Lajkura	Rampur Sub Area	Reference Station
		Near Project Office	Compliance Station
		Near South Coal Stock	Compliance Station
		North of the Mine	Compliance Station
Lakhanpur	Lilari	Khokelmal	Reference Station
		Near Lilari Magazine House	Compliance Station
	Lakhanpur	Near Lilari Nallah Pump House	Compliance Station
		Near Quarry 3	Compliance Station
		South of Quarry 6	Reference Station
		South West of Quarry 6	Reference Station
	Belpahar	Near Magazine House	Compliance Station
		Near Central Workshop	Compliance Station
		South of the Mine	Reference Station
		East of the Mine	Reference Station
Mahalaxmi	Basundhara (W)	Near Sarangijharia Community Centre	Reference Station
		North of the Sardega Railway Siding	Compliance Station
		West of Coal Stock	Compliance Station
		South West of Working face Gopalpur Village, Near CMPDI Camp	Compliance Station
Basundhara	Kulda	External CT Road	Compliance Station
		North of CHP	Reference Station
		South of Working Face	Reference Station
		West of Working Face	Reference Station
	Garjanbahal OCP	220 kV Substation	Compliance Station
		South West of Coalface	Compliance Station
		KAN-1 Near Coal Sampling Lab	Compliance Station
		North West of Working Face (Tumulia)	Reference Station
Orient	Orient Mine No. 1 & 2	Kaletapani Village	Reference Station
		Orient Mine No.2	Compliance Station
	Orient Mine No. 3	VIP Guest House, IB Valley	Reference Station
		Orient Mine No. 3	Compliance Station
	HBI Mine	HBI Mine	Compliance Station
		Bundia Colony Pump House	Compliance Station
		Rampur Officers Guest House	Compliance Station
		Rampur Sub Area (Reported only)	
Orient Mine No. 4	Orient Mine No. 4	Compliance Station	

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List of Noise Level Monitoring Stations

Area	Project (OCP/UG)	Name of the station
Ib Valley	Samleswari	West of the Mine
		South of the Mine
		East of the Mine
		South-East of the Mine
		Rampur Sub Area
		Khokelmal (Reported)
	Lajkura	Near Project Office
		Near South Coal Stock
		North of Mine
Khokelmal		
Lakhanpur	Lilari	Near Lilari Magazine House
	Lakhanpur	Near Lilari Nallah Pump House
		Near Quarry 3
		South of Quarry 6
		South West of Quarry 6
	Belpahar	Near Magazine House
		South of the Mine
		East of the Mine
		Near Central Workshop
Mahalaxmi	Basundhara(W)	North of the Sardega Railway Siding
		West of Coal Stock
		South-west of working face
		Sarangijharia Community Centre
Basundhara	Kulda	External CT Road
		North of CHP
	Garjanbahal OCP	220 kV Substation
		South-West of coal face
Orient	Orient Mine No. 1 & 2	Orient Mine No. 1 & 2
		VIP guest house, IB Valley
	Orient Mine No. 3	Orient Mine No. 3
	HBI Mine	HBI Mine
		Bundia Colony Pump House
		Rampur Officers Guest House
Orient Mine No. 4	Orient Mine No. 4	

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List of Effluent (22 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATIONS
IB-valley	Samleswari	Outlet from Sedimentation Pond
		Mine Sump Water
	Lajkura	Outlet of MDTP
		Mine Sump Water
Lakhanpur	Lilari	Mine Sump Water
	Lakhanpur	Mine Sump Water
	Belpahar	Mine Sump Water
Mahaxmi	Basundhara (W)	M1-Basundhara (E) OCP's Sump
		Outlet of Settling Pond at Excavation Workshop, B(W) OCP
Basundhara	Kulda	Inlet of ETP
		Final Outlet of ETP
		Mine Sump Water near Kulda Nursery
	Garjhanbahal	Outlet of Settling tank (Kanika Siding)
		Inlet of Settling tank (Kanika Siding)
		Mine Sump Water
Orient	Orient Mine No. 1 & 2	Mine Sump of Mine No. 2
	Orient Mine No. -3	Mine Sump of Mine No. 3
	HBI Mine	Mine Sump of HBM
	Orient Mine No. 4	Mine Sump of Mine No. 4

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List of Effluent (4 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATIONS
IB-Valley	Samaleswari	Outlet of Sedimentation Pond
		Outlet of Orampada Sump
		O&G Trap Inlet
		O&G Trap Outlet
	Lajkura	Inlet of Oil & Grease Trap
		Outlet of Oil & Grease Trap
		Inlet of MDTP
	Outlet of MDTP	
	Central Hospital	Tap Discharge Water of Central Hospital
Lakhanpur	Lilari	Mine Sump Water
	Lakhanpur	Intlet of Secondary Sedimentation Tank
		Outlet of Secondary Sedimentation Tank
		O & G Trap Inlet
		O & G Trap Outlet
		Mine Sump Water
	Belpahar	Intlet of ETP
		Outlet of ETP
		ECO Tank
		Mine Sump Water
Clear Water Tank of MDTP		
Mahalaxmi	Basundhara (W)	Inlet of Settling Pond at Excavation Workshop, B(W) OCP
		Outlet of Settling Pond at Excavation Workshop, B(W) OCP
		M1-Basundhara (E) OCP's Sump
Basundhara	Kulda	Inlet of ETP
		Final Outlet of ETP
		Mine Sump Water near Kulda Nursery
	Garjanbahal	Inlet of Settling Tank (Kanika Siding)
		Outlet of Settling Tank (Kanika Siding)
		Mine Sump Water
Orient	Orient Mine No. 1 & 2	Mine Sump of Mine No. 2
	Orient Mine No. 3	Mine Sump of Mine No. 3
	HBI Mine	Mine Sump of HBM
	Orient Mine No. 4	Mine Sump of Mine No. 4

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List of Effluent (3 Parameter) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATIONS
IB-Valley	Samleswari	STP Inlet
		STP Outlet
	Lajkura	STP Inlet
		STP Outlet
Lakhampur	Belpahar	Inlet of Sewage Treatment Plant
		Clear Water Tank of Sewage Treatment Plant

List of Effluent (1 Parameter-pH) Quality Monitoring Stations

Area	Project (OCP/UG)	NAME OF STATIONS
IB-valley	Samleswari	Mine Sump Water
	Lajkura	Mine sump water

List of Effluent (1 Parameter-TSS) Quality Monitoring Stations

Area	Project (OCP/UG)	Name of the station
IB-Valley	Lajkura	Mine Sump
		Surface Pond

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List of Drinking Water Quality Monitoring Stations

Area	OCP/UG/HQ	NAME OF THE STATION
IB Valley	Samleswari	Well Water from Kudopali
		Tap Water from Samleswari OCP Colony
		Water from IWSS, IB Valley Area
		Well Water from Lajkura
	Lajkura	Madhuban Nagar Well Water
		Adarsh Nagar Colony Well Water
		Chhualibera Village Well Water
Lakhanpur	Lakhanpur	LKP Canteen Tap Water
	Belpahar	IWSS Outlet
Mahalaxmi	Basundhara (W)	Water Treatment Plant Clear Water reservoir
Orient	Orient Mine No. 1 & 2	Tap Water at Budhijaam Colony
		Mine No. 1 & 2 Filter Plant
	Orient Mine No. 3	Mine No. 3 Filter Plant
	HBI Mine	Tap Water at Rampur Colony
		HBI Water Filter Plant
MCL(HQ)	MCL(HQ)	Tap Water at DAV School (Anand Vihar)
		Tap Water at Cooperate Office (Jagruthi Vihar)
		Inlet to Water Treatment Plant (Anand Vihar)
		Outlet of Water Treatment Plant (Anand Vihar)

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List of Well Water Level Stations

Area	Project (OCP/UG)	Name of station
IB Valley	Samleswari	Well of Kudopali
		Well of Lajkura
	Lajkura	Madhuban Nagar Well Water
		Adarsh Nagar Colony Well Water
Chhualiberna Village Well Water		
Lakhanpur	Lakhanpur	Kansar Village Well
		Khairkuni Village Well
	Belpahar	Ubuda Village Well
		Darlipali Village Well
Mahalaxmi	Basundhara (W)	Sardega Village Well
		Tiklipara Village Well
Basundhara	Kulda	Well at Sahaspur
		Well at Teleimal
	Garjhanbahal	Well at Garjanbahal Village
		South West of Coalface
Orient	Orient Mine No. 1 & 2	Madhuban Nagar Village Well (Repeated)
		Chhualiberna Village Well Water (Repeated)
	Orient Mine no. 3	Lajkura Village Well (Repeated)
	HBI	Chingriguda Village Well
		Kudopali Village Well (Repeated)
		Ainlapali Village Well
	Orient Mine No. 4	Adibasi Basti Village Well
		Jhopadi Basti Village Well

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List of Surface Water Monitoring Stations

Area	Project (OCP/UG)	Name of the Station
IB Valley	Samaleswari	Pandren Nallah near Global Washery
		Pandren Nallah Before Confluence Point with Lilari Nallah
	Lajkura	U/S of Baghmara Nala at Discharge Point
		D/S of Baghmara Nala at Discharge Point
Lakhanpur	Lakhanpur	Pulijhor Stream Near Tingismal Village as u/s for Lakhanpur OCP
		Pulijhor stream Near Darlipalil Village before Confluence to Lilari Nallah as d/s Water of Lakhanpur OCP
		Lilari Nallah Near Kudaloi Village as u/s of Lakhanpur OCP
		Lilari Nallah Near Project Office Lilari Bridge Village as d/s of Lakhanpur OCP
Mahalaxmi	Basundhara (W)	Basundhara River u/s point near Tilkipara Basundhara River d/s point near Tilkipara
Basundhara	Kulda	Basundhara River near Bankibahal bridge as u/s water
		Basundhara River near Barpali Village as d/s water
	Garjanbahal	Basundhara River near Bankibahal bridge as u/s water (Reported Only)
		Basundhara River near Barpali Village as d/s water (Reported Only)
Orient	Orient Mine No. 1 & 2	U/S of Baghmara Nala at Discharge Point
		D/S of Baghmara Nala at Discharge Point
	Orient Mine No. 3	Pond Water at Budhijam Village
	HBI	IB River near Kutabaga Village at Bridge Point
	Orient Mine No. 4	IB River Near Charbhati Village as u/s Water for IB Valley Coalfield
		IB River Bridge of NH200 at Gondghora Village as u/s of Orient Area

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List of Piezometer Monitoring Stations

Area	Project (OCP/UG)	Name of station
Ib valley	Samleswari	Piezometer No. MIP 04, GW level and quality (May)
		Piezometer No. MIP 04, GW level (Aug, Nov, Jan)
	Lajkura	Piezometer No. MIP 02, GW level and quality (May)
		Piezometer No. MIP 02, GW level (Aug, Nov, Jan)
Lakhanpur	Lilari	Piezometer No. MIP 06, GW level and quality (May)
		Piezometer No. MIP 06, GW level (Aug, Nov, Jan)
	Lakhanpur	Piezometer No. MIP 09, GW level and quality (May)
		Piezometer No. MIP 09, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 10, GW level and quality (May)
		Piezometer No. MIP 10, GW level (Aug,Nov,Jan)
	Belpahar	Piezometer No. MIP 07, GW level and quality (May)
		Piezometer No. MIP 07, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 08, GW level and quality (May)
		Piezometer No. MIP 08, GW level (Aug, Nov, Jan)
Mahalaxmi	Basundhara (W)	Piezometer No. MIP 15, GW level and quality (May)
		Piezometer No. MIP 15, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 16, GW level and quality (May)
		Piezometer No. MIP 16, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 13, GW level and quality (May)
		Piezometer No. MIP 13, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 17, GW level and quality (May)
		Piezometer No. MIP 17, GW level (Aug, Nov, Jan)
Basundhara	Kulda	Piezometer No. MIP 12, GW level and quality (May)
		Piezometer No. MIP 12, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 14, GW level and quality (May)
		Piezometer No. MIP 14, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 01, GW level and quality (May)
		Piezometer No. MIP 01, GW level (Aug, Nov, Jan)
		Piezometer No. MIP 11, GW level and quality (May)
		Piezometer No. MIP 11, GW level (Aug, Nov, Jan)
Orient	Orient Mine No. 1 & 2	Piezometer No. MIP 03, GW level and quality (May)
		Piezometer No. MIP 03, GW level (Aug, Nov, Jan)
	Orient Mine No. 3	Piezometer No. MIP 05, GW level and quality (May)
		Piezometer No. MIP 05, GW level (Aug, Nov, Jan)
	HBI	Piezometer No. MIP 05, GW level and quality (May) (Reported only)
		Piezometer No. MIP 05, GW level (Aug, Nov, Jan) (Reported only)

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4. FREQUENCY OF MONITORING

Table 05: Frequency of Monitoring

S. No.	Parameters	Sampling Frequency
1.	Air (5 Parameter) Quality Monitoring	Fortnightly/Weekly Twice
2.	Noise level (Day & Night) Monitoring	Fortnightly
3.	Effluent (1 Parameter) Quality Monitoring	Quarterly/Yearly
4.	Effluent (4 & 3 Parameter) Quality Monitoring	Fortnightly/Monthly/Quarterly
5.	Effluent (22 Parameter) Quality Monitoring	Yearly
6.	Drinking Water (26Parameter) Quality Monitoring	Monthly
7.	Piezometer & Ground Water Level Monitoring	Quarterly
8.	Surface Water (21 Parameter) Quality Monitoring	Half Yearly

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5. METHODOLOGY AND INSTRUMENTS USED

Table 6: Methodology used for Analysis

S.No	Materials or Products tested	Parameter	Test Method Specification
1	Ambient Air	NO ₂	IS 5182 (Part 6): 2012
2	Ambient Air	PM 10	IS 5182 (Part 23): 2012
3	Ambient Air	PM 2.5	Quality Assurance Guidance Document 2.12 Monitoring PM _{2.5} in Ambient Air Using Designated Reference or Class I Equivalent Methods: 2016
4	Ambient Air	SO ₂	IS 5182 (Part 2): 2012
5	Drinking Water	Arsenic	APHA 3114C: 2017
6	Drinking Water	Boron	IS 3025 (part 57): 2005
7	Drinking Water	Boron	APHA 4500-B B.C: 2017
8	Drinking Water	Cadmium	APHA 3113 B: 2017
9	Drinking Water	Copper	APHA 3111 A,B: 2017
10	Drinking Water	Copper	IS 3025 (Part 42): 2014
11	Drinking Water	Iron	APHA 3111 A,B: 2017
12	Drinking Water	Iron	IS 3025 (Part 53):
13	Drinking Water	Lead	APHA 3113 B : 2017
14	Drinking Water	Manganese	APHA 3111 A,B: 2017
15	Drinking Water	Total Chromium	IS 3025 (Part 52): 2014
16	Drinking water	Total Chromium	APHA 3113 B: 2017
17	Drinking water	Zinc	IS 3025 (Part 49): 2014
18	Drinking water	Alkalinity (as CaCO ₃)	IS 3025 (Part 23): 2014
19	Drinking Water	Calcium	IS 3025 (Part 40): 2014
20	Drinking Water	Chlorides	IS 3025 (Part 32): 2014
21	Drinking Water	Color	APHA 2120 C: 2017
22	Drinking Water	Flouride	APHA 4500-F-D: 2017
23	Drinking Water	Nitrate	APHA 4500 NO ₃ B: 2017
24	Drinking Water	pH	APHA 4500 H-B: 2017
25	Drinking Water	pH value	IS 3025 (Part 11) :
26	Drinking Water	Sulphate	APHA 4500 SO ₄ E: 2017
27	Drinking Water	Total Dissolved Solids	IS 3025 (Part -16):
28	Drinking Water	Total Hardness (CaCO ₃)	IS 3025 (Part 21): 2014
29	Drinking Water	Turbidity	IS 3025 (Part -10):
30	Surface water	Arsenic	APHA 3114 C: 2017
31	Surface water	Cadmium	APHA 3113 B: 2017
32	Surface Water	Copper	IS 3025 (Part 42): 2014
33	Surface water	Copper	APHA 3111 A,B: 2017
34	Surface water	Iron	APHA 3111 A,B: 2017
35	Surface water	Iron	IS 3025 (Part 53):
36	Surface water	Lead	APHA 3113 B: 2017
37	Surface water	Zinc	IS 3025 (Part 49): 2014
38	Surface Water	Chloride	IS 3025 (Part 32): 2014
39	Surface Water	Color	APHA 2120 C: 2017
40	Surface Water	Flouride	APHA 4500 F-D: 2017

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41	Surface Water	Nitrate	APHA 4500 NO3 B: 2017
42	Surface Water	pH	APHA 4500-H+B: 2017
43	Surface Water	pH	S 3025 (Part 11): 2012
44	Surface Water	Sulphate	APHA 4500 SO4 E: 2017
45	Surface Water	Total Dissolved Solids	IS 3025 (Part -16):
46	Surface Water	Total Hardness (CaCO ₃)	IS 3025 (Part 21): 2014
47	Waste Water (Effluent / Sewage)	Ammonical Nitrogen as N	APHA 4500 NH ₃ B,F: 2017
S.No	Materials or Products tested	Parameter	Test Method Specification
48	Waste Water (Effluent / Sewage)	Arsenic	APHA 3114 C: 2017
49	Waste Water (Effluent / Sewage)	Biological Oxygen Demand (BOD 3 days)	IS 3025 (Part 44): 2014
50	Waste Water (Effluent / Sewage)	Cadmium	APHA 3113 B : 2017
51	Waste Water (Effluent / Sewage)	Chemical Oxygen demand (COD)	APHA 5220 B, C: 2017
52	Waste Water (Effluent / Sewage)	Colour	APHA 2120 C : 2017
53	Waste Water (Effluent / Sewage)	Copper	IS 3025 (Part 42): 2014
54	Waste Water (Effluent / Sewage)	Copper	APHA 3111, A, B : 2017
55	Waste Water (Effluent / Sewage)	Dissolved Phosphate as P	APHA 4500-P C : 2017
56	Waste Water (Effluent / Sewage)	Fluoride	APHA 4500-F- D: 2017
57	Waste Water (Effluent / Sewage)	Hexavalent Chromium	APHA 3500-B: 2017
58	Waste Water (Effluent / Sewage)	Iron	IS 3025 (Part 53): 2014
59	Waste Water (Effluent / Sewage)	Iron	APHA 3111 A, B : 2017
60	Waste Water (Effluent / Sewage)	Lead	APHA, 3113 A, B: 2017
61	Waste Water (Effluent / Sewage)	Manganese	APHA 3111 A, B: 2017
62	Waste Water (Effluent / Sewage)	Nickel	IS 3025 (Part 54): 2014
63	Waste Water (Effluent / Sewage)	Nickel	APHA 3113 A, B : 2017
64	Waste Water (Effluent / Sewage)	Nitrate Nitrogen	APHA 4500 NO3 B: 2017
65	Waste Water (Effluent / Sewage)	Oil & Grease	IS 3025 (Part 39): 2014
66	Waste Water (Effluent / Sewage)	pH value	IS 3025 (Part 11 :1983): 2012
67	Waste Water (Effluent / Sewage)	pH value	APHA 4500 - H+ A, B : 2017
68	Waste Water (Effluent / Sewage)	Sulphide	APHA, 4500 - S 2- D, : 2017

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69	Waste Water (Effluent / Sewage)	Total Chromium	IS 3025 (Part 52:2003): 2014
70	Waste Water (Effluent / Sewage)	Total Kjeldahl Nitrogen	APHA 4500 N org B : 2017
71	Waste Water (Effluent / Sewage)	Total Suspended Solids	IS 3025 (Part 17-1984):
72	Waste Water (Effluent / Sewage)	Zinc	IS 3025 (Part 49): 2014
73	Waste Water (Effluent/Sewage)	Ammonical Nitrogen as N	IS 3025 (Part 34): 2014
74	Waste Water (Effluents/ Sewage)	Temperature	IS 3025 (Part-9): 2012

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Picture 1 Plantation site Near Quarry No. 3, Lakhanpur OCP



Picture 2: Continuous Ambient Air Monitoring Station

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AIR QUALITY DATA

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6. ENVIRONMENTAL PARAMETER ANALYSIS

TABLES NO 7 FOR AIR QUALITY DATA

Table: 7.1

Area: Ib valley Area

Project: Samleswari OCP

Monitoring Station: East of the Mine

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
10-Apr-21	188	80	47	14.61	28.27
26-Apr-21	391	236	73	17.68	34.63
06-May-21	287	162	43	21.05	42.52
20-May-21	214	119	35	21.03	39.65
05-Jun-21	266	164	44	21.46	30.34
24-Jun-21	297	188	51	20.64	33.37
03-Jul-21	243	164	47	15.2	31.66
20-Jul-21	209	114	40	13.33	21.55
12-Aug-21	148	84	36	10.31	16.46
26-Aug-21	149	93	34	9.32	15.51
10-Sep-21	179	112	40	8.36	15.63
29-Sep-21	242	139	43	14.51	25.51
01-Oct-21	244	155	56	14.54	25.39
21-Oct-21	291	179	63	12.66	25.01
03-Nov-21	295	168	66	10.47	17.95
17-Nov-21	317	183	63	10.69	20.55
02-Dec-21	212	159	64	12.76	27.79
17-Dec-21	216	159	62	15.4	26.3
01-Jan-22	240	152	52	21.57	82.53
18-Jan-22	220	145	50	14.11	20.06
02-Feb-22	186	129	45	11.77	17.66
21-Feb-22	166	130	50	10.83	21.75
02-Mar-22	155	110	40	13.28	22.48
17-Mar-22	155	120	43	13.25	22.36
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	391	236	73	21.57	82.53
Minimum	148	80	34	8.36	15.51
Average	236.4	146.1	50.2	14.7	28.2
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.2

Area: Ib valley Area

Project: Samleswari OCP

Monitoring Station: West of the Mine

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

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
06-Apr-21	426	241	68	16.57	34.29
23-Apr-21	369	187	61	16.84	33.71
05-May-21	309	176	49	19.97	38.33
19-May-21	243	117	36	22.24	35.19
03-Jun-21	206	137	41	16.83	42.13
23-Jun-21	297	172	49	21.24	46.31
03-Jul-21	247	132	44	16.13	33.6
19-Jul-21	221	130	41	14.64	21.15
11-Aug-21	102	63	28	11.74	20.26
25-Aug-21	144	89	37	9.56	20.97
10-Sep-21	197	117	42	13.94	25.4
28-Sep-21	219	133	45	17.61	20.83
01-Oct-21	229	147	53	15.51	31.23
20-Oct-21	286	174	64	14.46	25.25
03-Nov-21	313	190	67	16.21	25.52
16-Nov-21	368	224	71	14.56	25.71
01-Dec-21	203	159	61	14.26	25.05
16-Dec-21	390	157	60	15.62	30.49
01-Jan-22	266	166	54	14.32	27.38
17-Jan-22	233	145	44	19.5	22.52
01-Feb-22	172	110	48	17.82	25.5
21-Feb-22	170	115	45	14.35	23.9
01-Mar-22	166	114	44	19.05	30.3
16-Mar-22	180	126	40	12.36	22.52
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	426	241	71	22.24	46.31
Minimum	102	63	28	9.56	20.26
Average	248.2	146.7	49.7	16.1	28.6
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.3

Area: Ib valley

Project: Samleswari OCP

Monitoring Station: South of the Mine

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

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
06-Apr-21	234	91	51	21.6	39.72
17-Apr-21	317	181	64	15.37	30.16
05-May-21	328	196	46	22.66	32.95
19-May-21	254	132	38	18.5	44.24
03-Jun-21	293	172	47	22.56	42.72
23-Jun-21	327	195	54	19.08	42.1
03-Jul-21	271	159	49	14.31	25.24
19-Jul-21	243	136	46	11.73	20.95
11-Aug-21	160	92	39	10.14	16.11
28-Aug-21	198	113	41	8.78	17.85
10-Sep-21	224	133	45	14.52	17.55
29-Sep-21	266	159	49	20.99	32.09
01-Oct-21	264	169	63	12.83	19.26
20-Oct-21	329	218	69	16.27	20.76
03-Nov-21	357	211	71	13.94	26.84
16-Nov-21	387	239	76	14.14	20.88
01-Dec-21	181	127	74	12.17	21.08
16-Dec-21	191	173	53	15.18	23.64
01-Jan-22	296	170	56	9.02	18.71
17-Jan-22	256	156	52	13.1	20.26
01-Feb-22	196	123	50	11.15	19.65
21-Feb-22	184	123	54	9.86	20.61
01-Mar-22	188	125	54	11.96	21.11
16-Mar-22	190	133	50	18.23	28.32
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	387	239	76	22.66	44.24
Minimum	160	91	38	8.78	16.11
Average	255.6	155.3	53.8	14.9	26.0
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.4

Area: Ib valley

Project: Samleswari OCP

Monitoring Station: South-East of the Mine

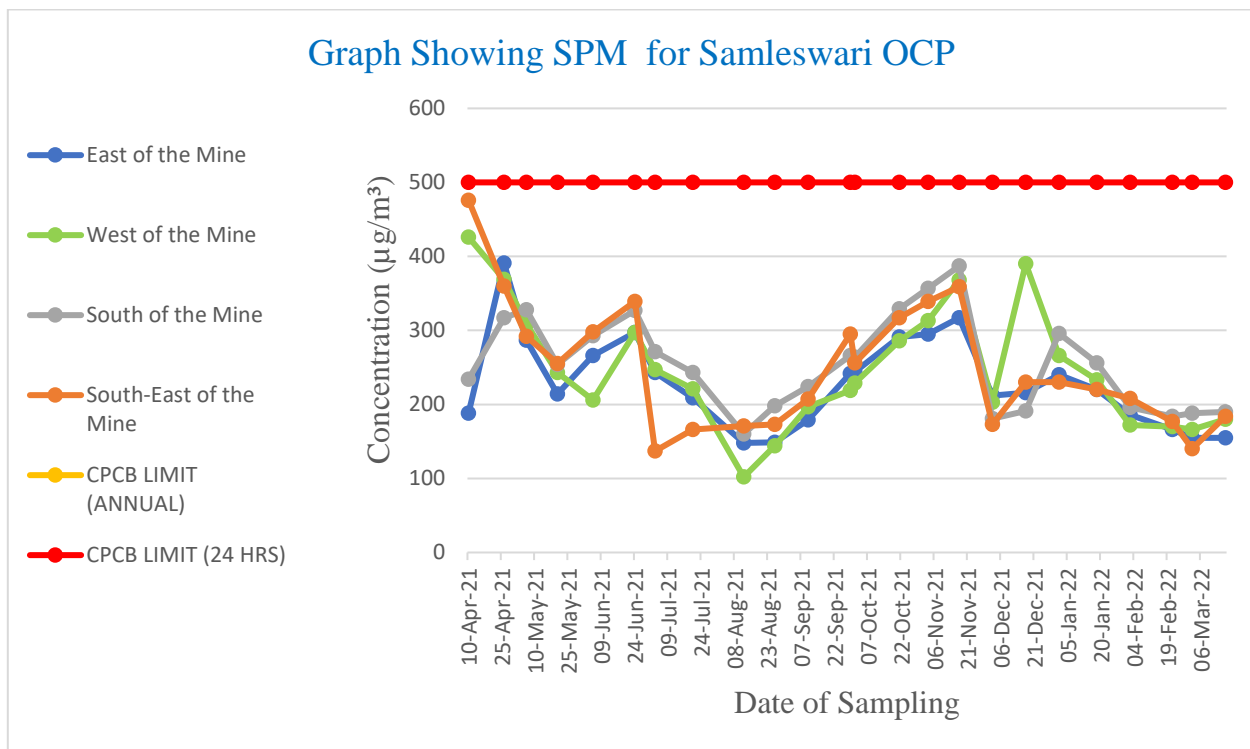
All values are in $\mu\text{g}/\text{m}^3$

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
10-Apr-21	476	235	73	19.46	39.68
19-Apr-21	360	208	67	16.52	33.54
06-May-21	292	171	48	15.96	27.96
20-May-21	255	127	39	25.65	29.46
05-Jun-21	298	163	49	15.46	31.7
24-Jun-21	339	207	58	23.71	39.91
03-Jul-21	137	74	39	13.6	23.5
20-Jul-21	166	103	44	12.31	19.73
12-Aug-21	171	86	40	12.97	15.1
26-Aug-21	173	107	44	10.57	19.78
13-Sep-21	207	129	46	13.4	22.93
29-Sep-21	295	175	51	14.87	25.45
01-Oct-21	256	164	58	12.85	26.24
21-Oct-21	317	204	68	11.44	20.68
03-Nov-21	339	201	70	14.36	22.18
17-Nov-21	359	217	66	11.91	19.04
02-Dec-21	173	138	60	12.85	34.41
17-Dec-21	230	169	52	15.19	14.86
01-Jan-22	230	190	57	15.53	15.42
18-Jan-22	220	155	48	11.62	20.06
02-Feb-22	208	132	55	12.52	19.08
21-Feb-22	177	133	47	13.07	18.84
02-Mar-22	140	107	36	12.62	23.64
17-Mar-22	184	125	46	17.23	29.32
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	476	235	73	25.65	39.91
Minimum	137	74	36	10.57	14.86
Average	250.1	155.0	52.5	14.8	24.7
Standard 24 hr	500	250		120	120
Standard Annual				80	80

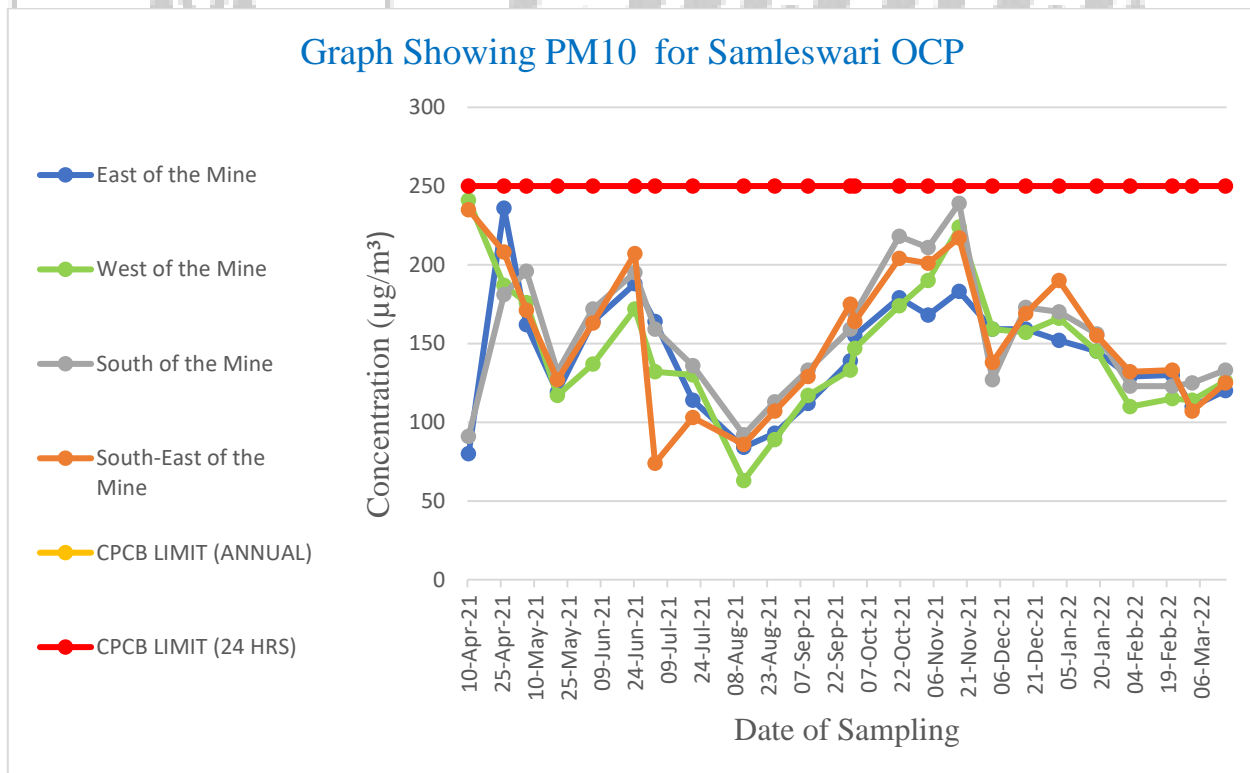
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Graph Showing SPM for Samleswari OCP



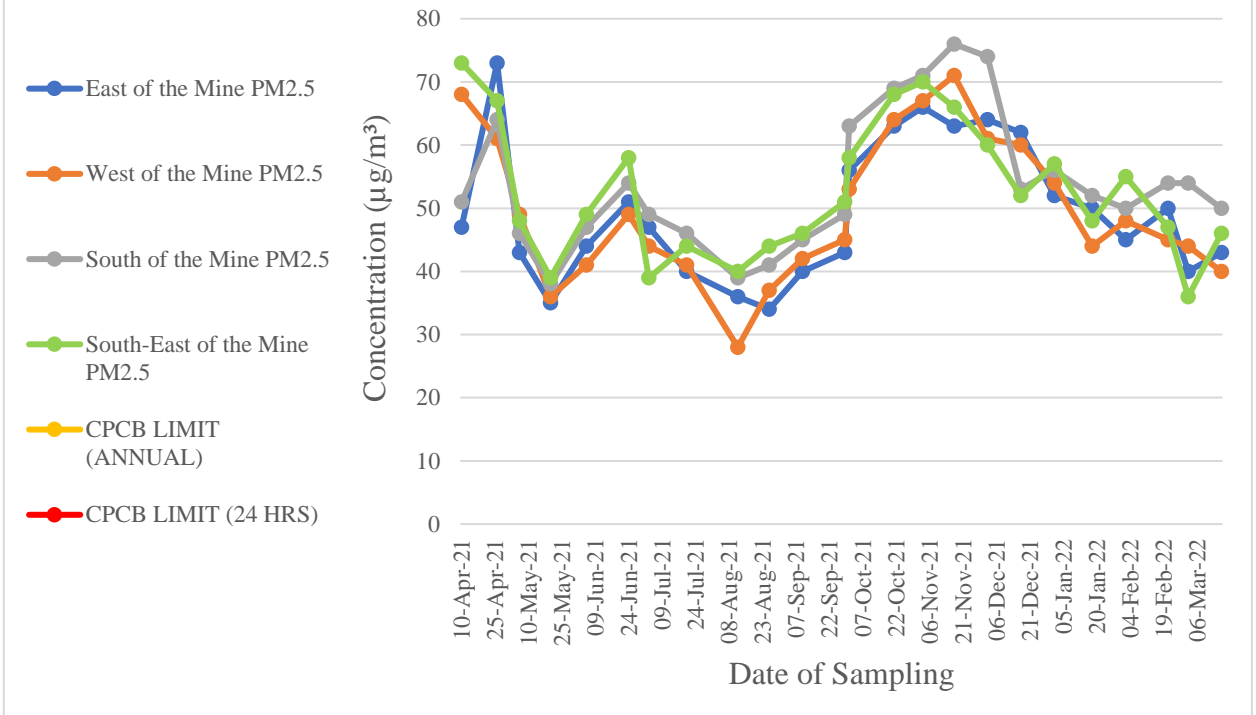
Graph Showing PM10 for Samleswari OCP



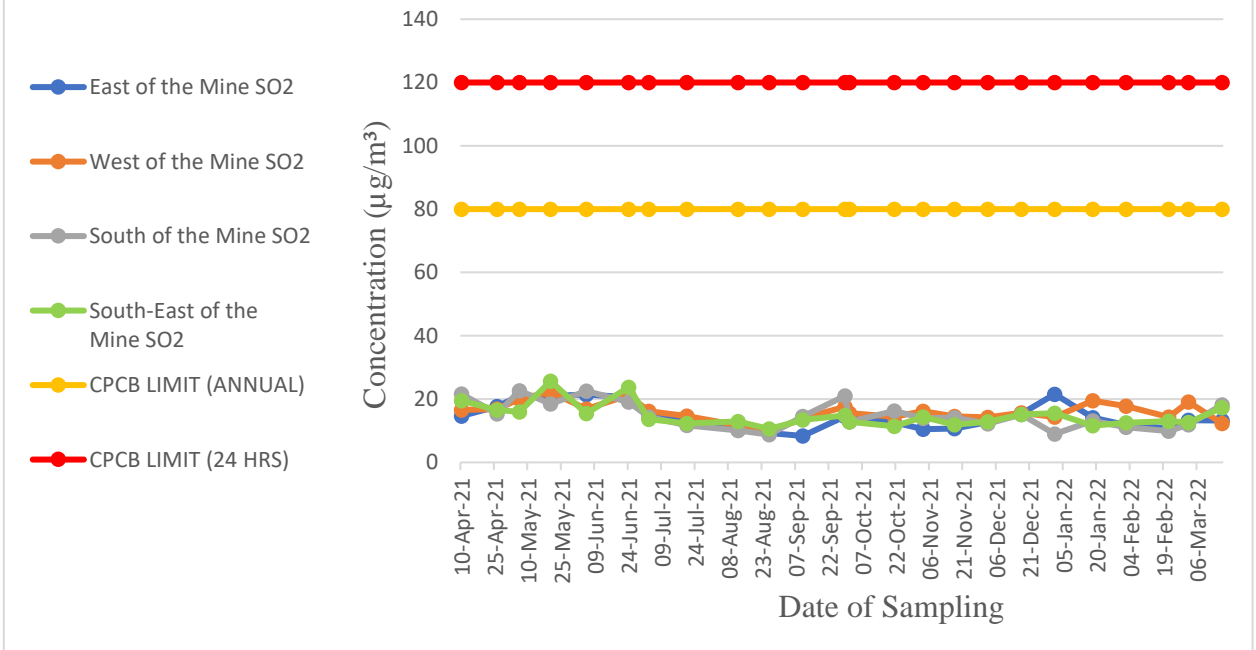
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Graph Showing PM2.5 for Samleswari OCP



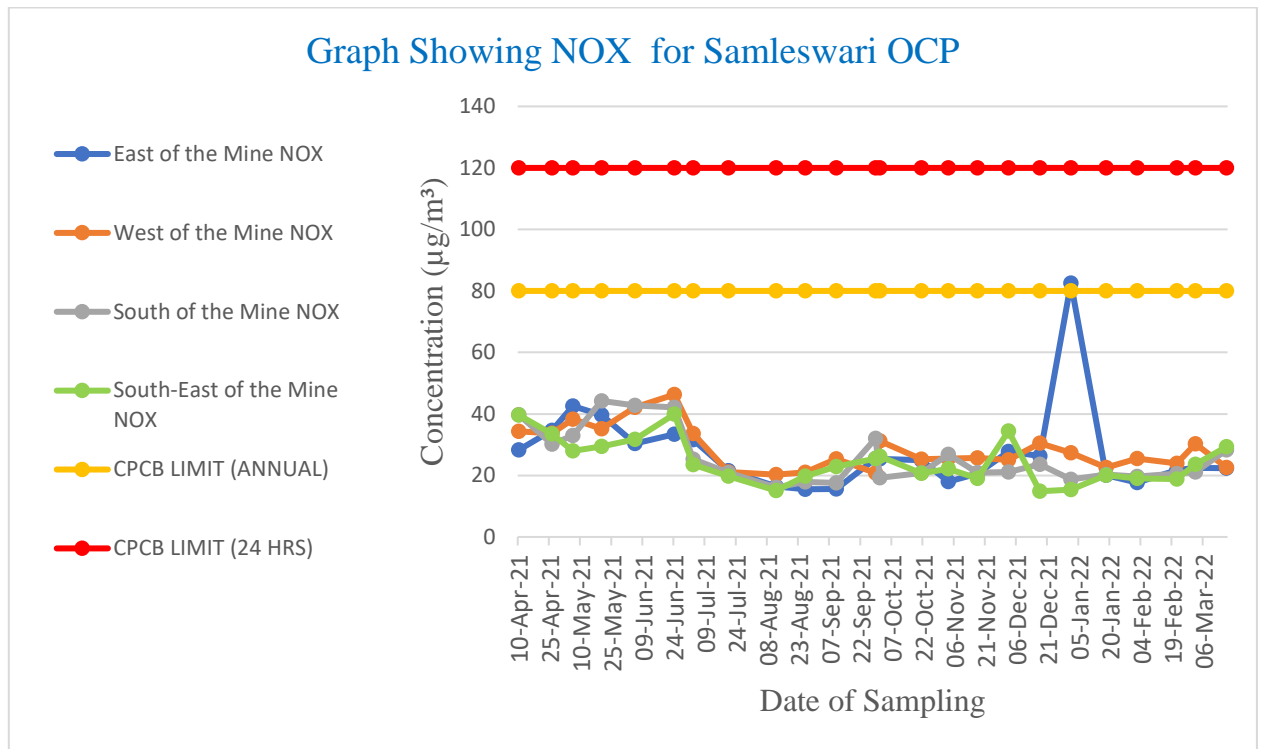
Graph Showing SOX for Samleswari OCP



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Graph Showing NOX for Samleswari OCP



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Table: 7.5

Area: Ib valley Area

Project: Samleswari OCP

Monitoring Station: Rampur Sub Area

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	185	78	44	17.4	36.12
08-Apr-21	196	73	49	17.89	36.59
14-Apr-21	178	77	47	16.73	35.75
15-Apr-21	198	85	51	18.27	37.64
21-Apr-21	134	65	37	13.81	25.67
22-Apr-21	149	74	39	13.24	25.16
27-Apr-21	186	86	44	12.73	24.51
28-Apr-21	174	90	49	15.26	29.73
03-May-21	167	78	45	22.52	34.88
04-May-21	146	71	42	16.13	32.1
10-May-21	121	64	39	23.44	25.35
11-May-21	100	52	35	25.47	33.78
17-May-21	114	67	37	24.25	28.3
18-May-21	108	68	33	24.97	28.01
24-May-21	92	57	29	18.21	23.91
25-May-21	98	55	30	16.34	35.11
01-Jun-21	88	52	27	23.51	33.48
02-Jun-21	206	60	32	16.83	42.13
07-Jun-21	123	74	34	17.08	36.28
08-Jun-21	118	71	37	19.74	29.96
18-Jun-21	151	84	47	16.92	36.62
19-Jun-21	155	76	41	15.66	26.35
21-Jun-21	124	69	39	21.84	25.5
22-Jun-21	111	62	36	20.26	35.55
01-Jul-21	153	81	46	10.26	13.44
02-Jul-21	144	76	41	11.97	17.96
09-Jul-21	121	70	37	10.9	20.44
10-Jul-21	107	66	30	9.42	14.72
16-Jul-21	115	62	34	8.84	23.87
17-Jul-21	102	53	30	12.05	16.31
23-Jul-21	108	70	33	8.99	18.74
24-Jul-21	114	66	29	10.29	17.46
06-Aug-21	97	60	25	9.77	14.3
07-Aug-21	117	69	29	10.38	19.43
13-Aug-21	101	53	23	12.69	17.48
14-Aug-21	98	59	27	9.42	13.79
20-Aug-21	103	64	30	9.95	17.21
21-Aug-21	99	50	29	10.56	16.83
27-Aug-21	139	82	36	11.22	16.67
28-Aug-21	154	79	32	7.89	18.37

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06-Sep-21	102	61	30	14.6	20.63
07-Sep-21	83	50	27	16.38	21.06
15-Sep-21	113	70	34	11.58	16.16
16-Sep-21	129	75	37	9.11	16.9
22-Sep-21	114	70	28	10.26	25.37
23-Sep-21	123	61	31	13.32	16.88
29-Sep-21	151	79	39	16.11	20.71
30-Sep-21	143	73	36	16.66	29.42
06-Oct-21	103	63	33	12.44	16.83
07-Oct-21	97	52	28	10.9	25.58
13-Oct-21	128	77	39	15.54	19.83
14-Oct-21	137	80	41	10.1	30.34
22-Oct-21	113	76	39	11.51	21.23
23-Oct-21	129	85	41	11.03	23.67
29-Oct-21	120	83	47	10.27	22.5
30-Oct-21	114	77	45	9.41	20.41
01-Nov-21	103	66	35	6.86	18.35
02-Nov-21	123	76	39	12.37	14.88
12-Nov-21	141	80	43	9.98	20.84
13-Nov-21	153	86	46	14.23	21.55
22-Nov-21	149	78	43	10.09	18.79
23-Nov-21	140	89	46	9.12	16.13
29-Nov-21	161	84	40	11.08	19.09
30-Nov-21	147	81	44	10.36	21.23
06-Dec-21	105	66	40	13.66	24.6
07-Dec-21	118	70	29	15.12	24.08
13-Dec-21	135	91	41	18.79	20.26
14-Dec-21	105	65	45	15.77	19.74
22-Dec-21	134	91	44	10.98	23.92
23-Dec-21	151	87	42	14.17	23.94
29-Dec-21	125	86	45	11.98	25.58
30-Dec-21	236	89	43	14.09	17.7
07-Jan-22	155	88	36	13.01	23.66
08-Jan-22	163	90	32	16.32	20.02
14-Jan-22	140	96	35	9.74	19.17
15-Jan-22	164	81	30	13.83	15.61
21-Jan-22	145	71	30	16.41	19
22-Jan-22	150	82	34	15.17	25.85
24-Jan-22	166	77	40	11.57	27.83
25-Jan-22	178	84	37	14.56	22.41
07-Feb-22	155	85	33	12.36	18.93
08-Feb-22	145	80	26	14.37	16.4
14-Feb-22	136	75	30	18.84	24.32
15-Feb-22	166	90	37	16.35	23.6
18-Feb-22	137	96	33	11.98	20.45
19-Feb-22	149	83	28	13.94	24.29
25-Feb-22	139	87	34	10.42	21.79
26-Feb-22	126	80	30	12.74	20.72

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07-Mar-22	120	60	22	13.46	25.12
08-Mar-22	145	72	30	15.8	19.39
14-Mar-22	150	88	36	20.15	25.51
15-Mar-22	133	63	26	16.22	23.74
23-Mar-22	126	80	32	10.56	19.89
24-Mar-22	120	77	28	11.05	21.45
30-Mar-22	121	70	22	10.23	18.23
31-Mar-22	133	75	33	17.56	28.63
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	236	96	51	25.47	42.13
Minimum	83	50	22	6.86	13.44
Average	134.2	73.9	35.9	14.0	23.3
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 7.6

Area: Ib valley Area

Project: Samleswari OCP

Monitoring Station: Khokelmal (Reported Only)

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	201	81	46	14.83	28.41
08-Apr-21	214	78	49	15.06	29.24
14-Apr-21	222	84	50	15.27	29.79
15-Apr-21	208	92	53	14.71	28.16
21-Apr-21	187	81	43	16.14	31.72
22-Apr-21	170	87	48	13.42	25.61
26-Apr-21	148	70	41	11.67	21.43
27-Apr-21	189	73	37	11.48	20.17
03-May-21	141	79	42	23.82	36.59
04-May-21	147	75	44	22.89	47.29
10-May-21	126	67	40	18.61	31.38
11-May-21	112	61	37	19.2	47.07
17-May-21	113	71	32	18.46	42.84
18-May-21	125	69	30	18.09	36.07
24-May-21	98	56	27	21.06	36.87
25-May-21	90	51	24	16.22	46.55
01-Jun-21	78	46	26	17.78	29.24
02-Jun-21	91	51	28	25.38	42.71
07-Jun-21	103	63	31	31.01	42.4
08-Jun-21	118	71	33	21.76	51.28
18-Jun-21	144	88	48	21.72	50.37
19-Jun-21	149	80	43	18.08	44.89
21-Jun-21	139	75	40	20.18	40.14
22-Jun-21	115	74	35	24.44	49.84
06-Aug-21	112	78	35	13.63	18.14
07-Aug-21	102	73	31	11.96	21.43
13-Aug-21	91	51	29	15.67	23
14-Aug-21	79	49	25	10.83	18.02
20-Aug-21	93	55	26	11.44	19.8
21-Aug-21	125	74	32	12.64	17.79
27-Aug-21	92	53	27	8.78	19.47
28-Aug-21	89	48	22	15.12	18.66
06-Sep-21	90	47	23	13	25.37
07-Sep-21	94	55	29	10.91	25.18
15-Sep-21	107	57	33	13.75	22.94
16-Sep-21	98	50	26	10.62	21.87
22-Sep-21	120	69	29	14.66	22.89
23-Sep-21	129	65	34	11.45	17.93
29-Sep-21	139	71	39	15.16	15.93
30-Sep-21	151	79	37	11.36	21.54

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07-Oct-21	109	64	31	15.17	27.12
13-Oct-21	134	78	39	16.43	25.03
14-Oct-21	145	83	41	17.9	29.53
22-Oct-21	147	79	43	13.1	23.42
23-Oct-21	143	83	42	16.12	24.4
29-Oct-21	158	88	48	13.6	22.7
30-Oct-21	151	93	51	11.16	17.41
01-Nov-21	137	79	43	12.08	25.59
02-Nov-21	121	74	40	17.15	22.93
12-Nov-21	156	84	48	14.54	30.54
13-Nov-21	155	88	51	18.36	17.51
22-Nov-21	108	62	37	15.72	21.49
23-Nov-21	122	78	41	11.76	25.42
29-Nov-21	164	91	53	8.56	19.49
30-Nov-21	151	85	48	10.22	22.63
06-Dec-21	122	73	42	18.47	23.34
07-Dec-21	163	75	51	17.45	20.17
13-Dec-21	134	83	40	12.19	28.32
14-Dec-21	112	82	53	13.81	39.57
22-Dec-21	128	85	36	19.14	25.34
23-Dec-21	198	89	35	12.65	29.45
29-Dec-21	155	86	31	13.83	33.28
30-Dec-21	196	85	39	15.72	31.09
07-Jan-22	144	86	25	14.78	33.01
09-Jan-22	155	90	32	19.22	28.79
14-Jan-22	166	98	40	20.15	34.27
15-Jan-22	155	87	35	12.2	23.48
21-Jan-22	155	98	28	19.25	28.62
22-Jan-22	165	79	30	14	24.41
24-Jan-22	174	82	36	15.07	28.84
25-Jan-22	170	100	40	16.23	23.23
07-Feb-22	136	77	28	19.67	21.72
08-Feb-22	122	70	24	22.15	25.63
14-Feb-22	144	85	30	16.26	21.63
15-Feb-22	155	88	34	18.2	23.56
18-Feb-22	122	88	31	16.92	22.35
19-Feb-22	133	90	27	12.64	22.68
25-Feb-22	125	75	22	13.3	20.72
26-Feb-22	130	81	24	14.72	23.38
07-Mar-22	107	55	20	21.33	21.03
08-Mar-22	129	73	29	20.89	22.11
14-Mar-22	136	65	25	13.74	21.7
15-Mar-22	155	84	24	20.69	25.65
23-Mar-22	120	66	26	13.21	22.32
24-Mar-22	115	60	20	9.12	16.36
30-Mar-22	136	77	25	11.23	18.02
31-Mar-22	150	94	33	11.25	23.63
Basic Stats	SPM	PM10	PM2.5	SO2	NOx

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Maximum	222	100	53	31.01	51.28
Minimum	78	46	20	8.56	15.93
Average	136.2	74.9	35.3	15.8	27.4
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

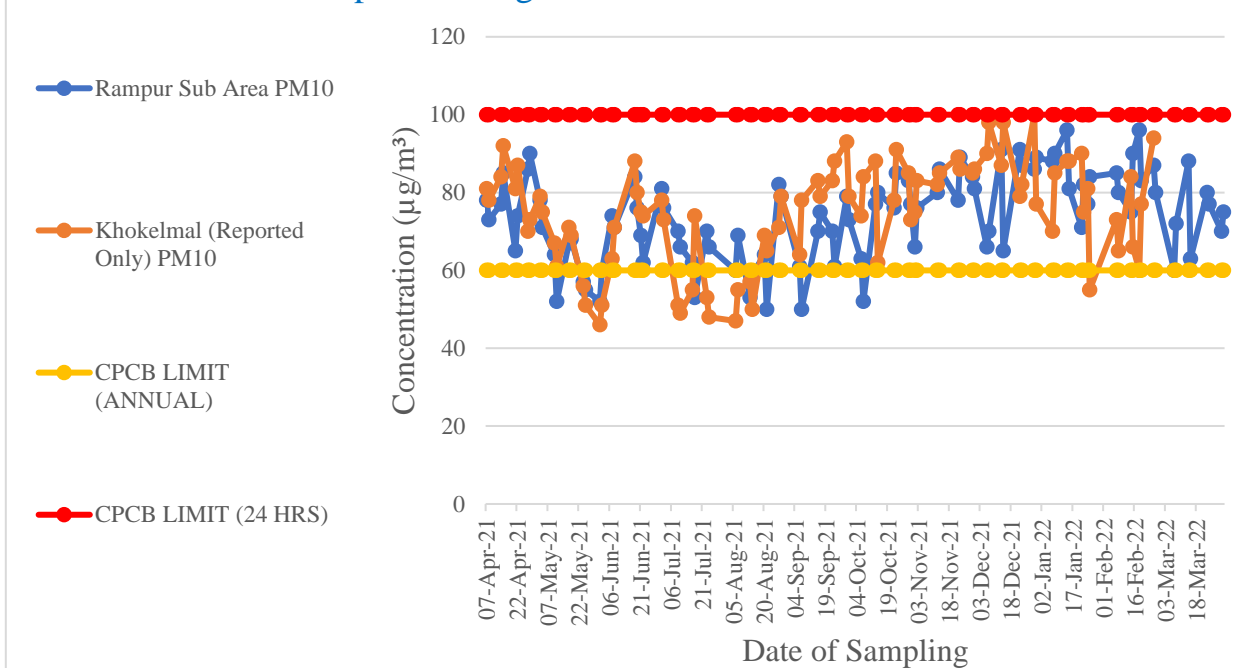


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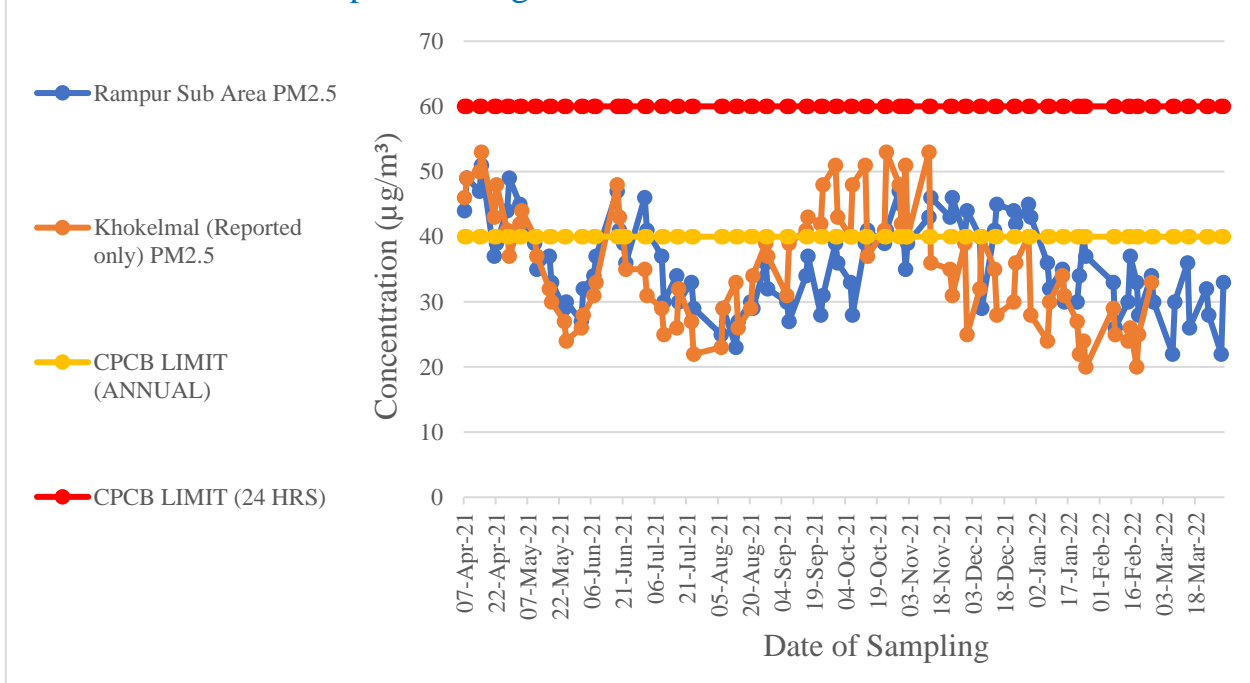
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Graph Showing PM10 for Samleswari OCP

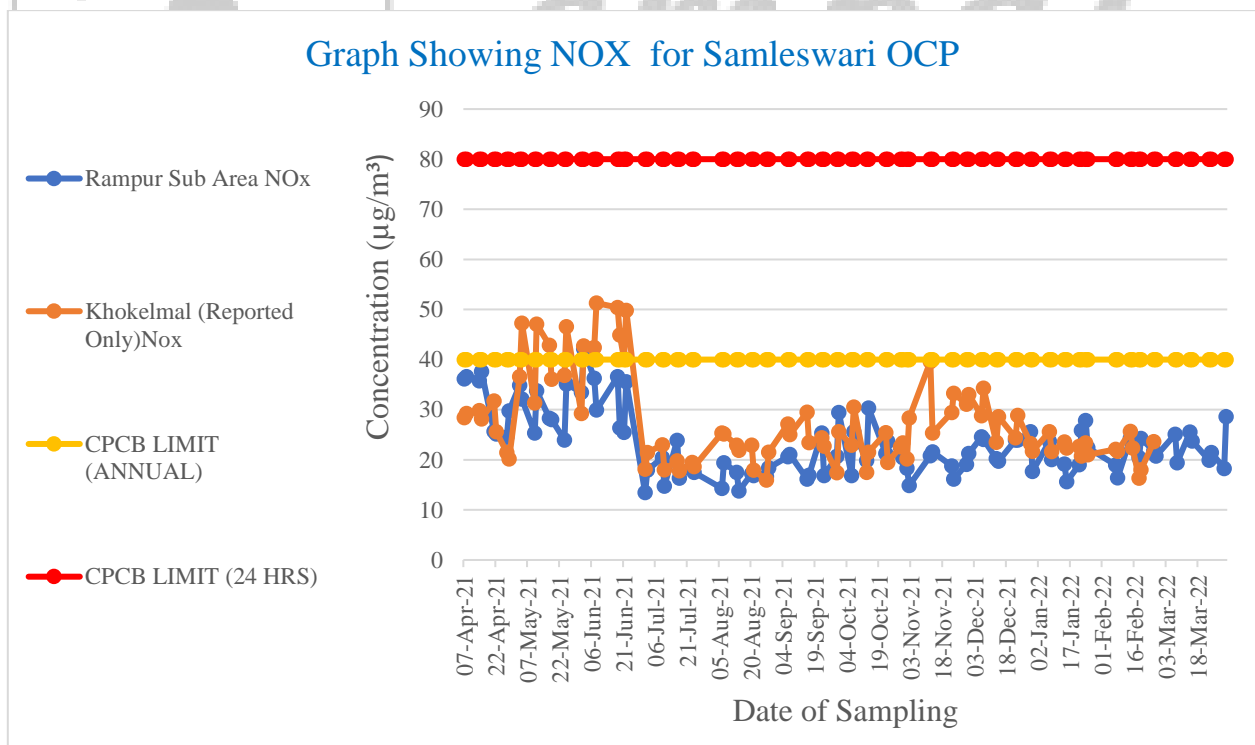
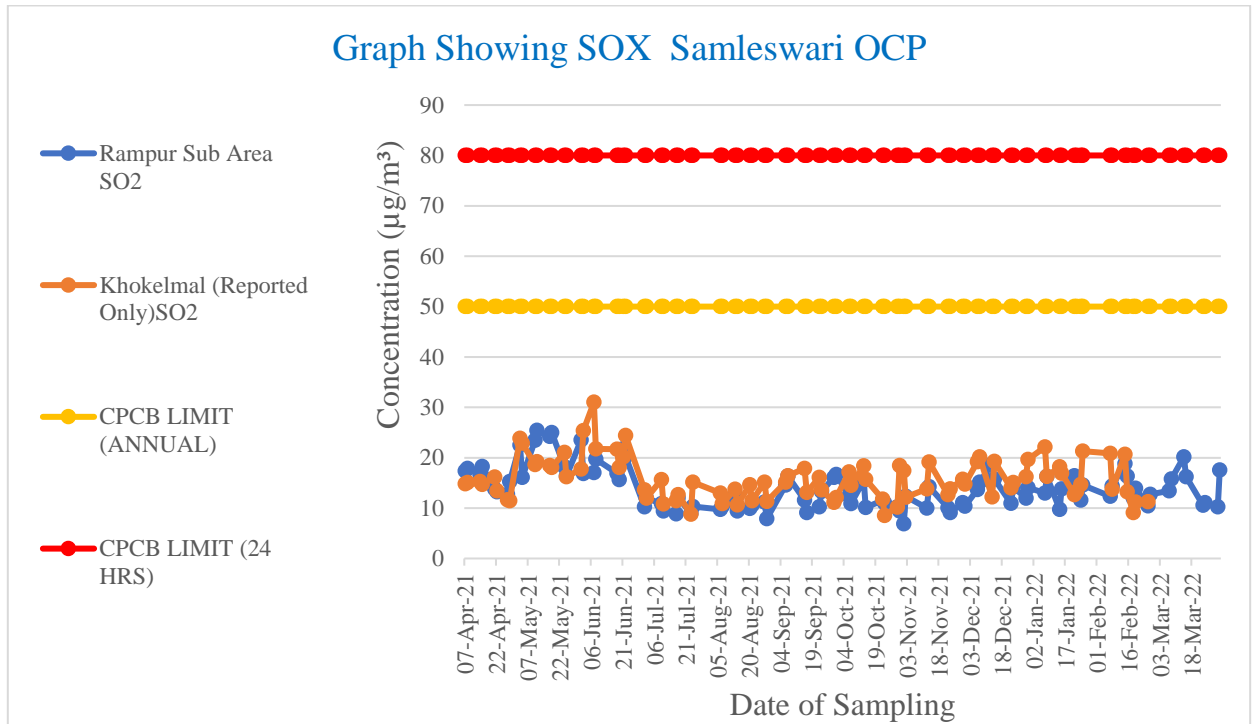


Graph Showing PM2.5 for Samleswari OCP



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Table: 7.7

Area: Ib valley Area

Project: Lajkura OCP

Monitoring Station: Near Project Office

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
12-Apr-21	415	238	68	19.73	39.16
24-Apr-21	346	179	54	16.41	31.57
07-May-21	251	119	40	20.69	35
21-May-21	181	104	35	20.82	38.48
09-Jun-21	269	148	38	10.93	18.99
25-Jun-21	287	169	42	19.41	32.67
03-Jul-21	237	149	44	9.86	18.67
21-Jul-21	186	102	35	9.03	19.22
13-Aug-21	139	73	30	11.72	18.25
27-Aug-21	159	97	39	7.56	14.57
13-Sep-21	151	89	35	11.21	17.41
30-Sep-21	189	107	41	10.85	16.86
01-Oct-21	91	56	29	13.48	24.54
22-Oct-21	222	131	36	12.39	17.31
03-Nov-21	232	147	43	13.73	19.83
20-Nov-21	256	163	49	8.15	20.05
06-Dec-21	202	148	49	20.03	30.76
18-Dec-21	186	119	46	16.05	22.43
01-Jan-22	185	126	45	12.74	19.24
21-Jan-22	190	132	50	11.92	21.16
05-Feb-22	184	112	50	14.59	20.11
21-Feb-22	190	134	38	11.73	22.89
05-Mar-22	158	138	40	10.82	19.31
18-Mar-22	176	125	44	19.23	28.21
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	415	238	68	20.82	39.16
Minimum	91	56	29	7.56	14.57
Average	211.8	129.4	42.5	13.9	23.6
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.8

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** Near South Coal Stock

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
12-Apr-21	447	232	72	19.25	40.45
24-Apr-21	377	183	59	16.82	32.41
07-May-21	269	138	48	14.85	33.6
21-May-21	249	126	39	15.38	39.73
09-Jun-21	305	180	50	12.12	25.2
25-Jun-21	337	209	53	16.04	33.59
03-Jul-21	269	168	46	11.76	18.24
21-Jul-21	213	124	44	14.21	23.68
13-Aug-21	149	98	41	8.23	18.47
28-Aug-21	204	137	44	8.65	16.55
14-Sep-21	209	121	45	14.64	24.13
30-Sep-21	239	132	47	14.3	25.26
01-Oct-21	155	96	43	11.74	30.17
22-Oct-21	279	167	54	11.69	18.2
03-Nov-21	284	171	49	10.75	27.81
20-Nov-21	303	189	55	9.53	20.6
06-Dec-21	218	107	42	16.65	26.28
18-Dec-21	155	163	39	13.98	26.05
01-Jan-22	175	133	44	14.93	25.97
21-Jan-22	186	144	46	15.05	22.72
05-Feb-22	190	125	56	14.56	25.5
21-Feb-22	200	160	55	14.14	23.6
05-Mar-22	186	122	47	18.47	17.55
18-Mar-22	188	133	50	17.12	29.36
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	447	232	72	19.25	40.45
Minimum	149	96	39	8.23	16.55
Average	241.1	148.3	48.7	14.0	26.0
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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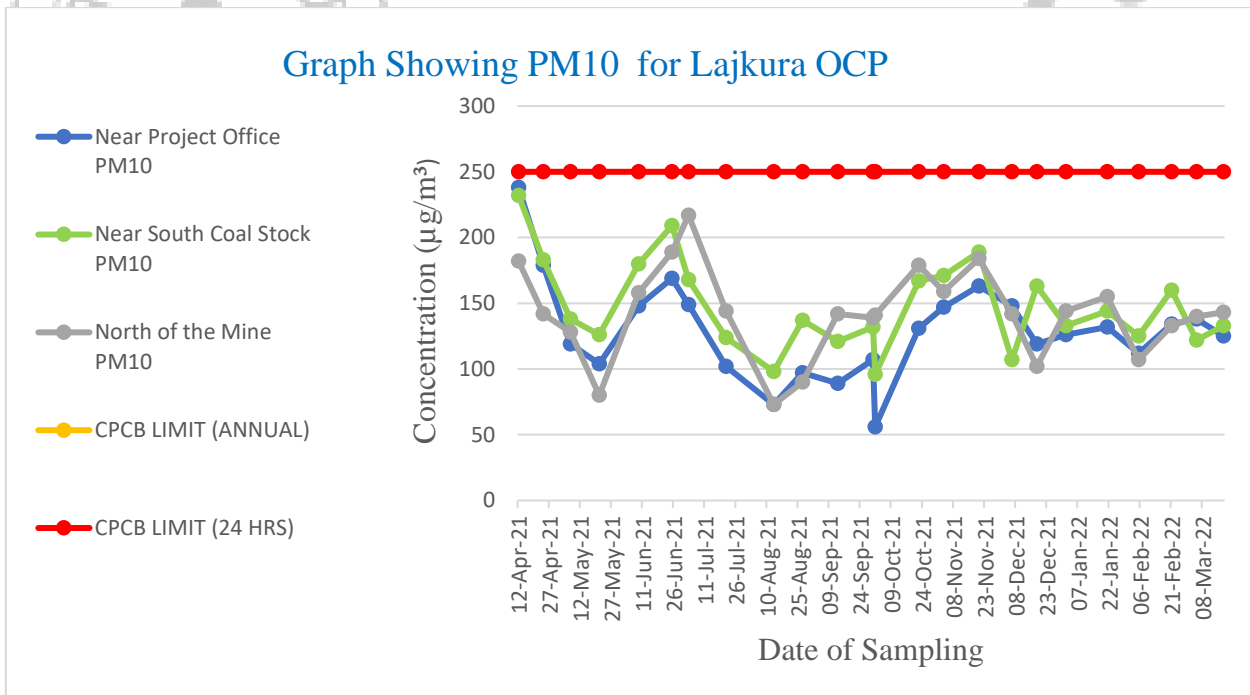
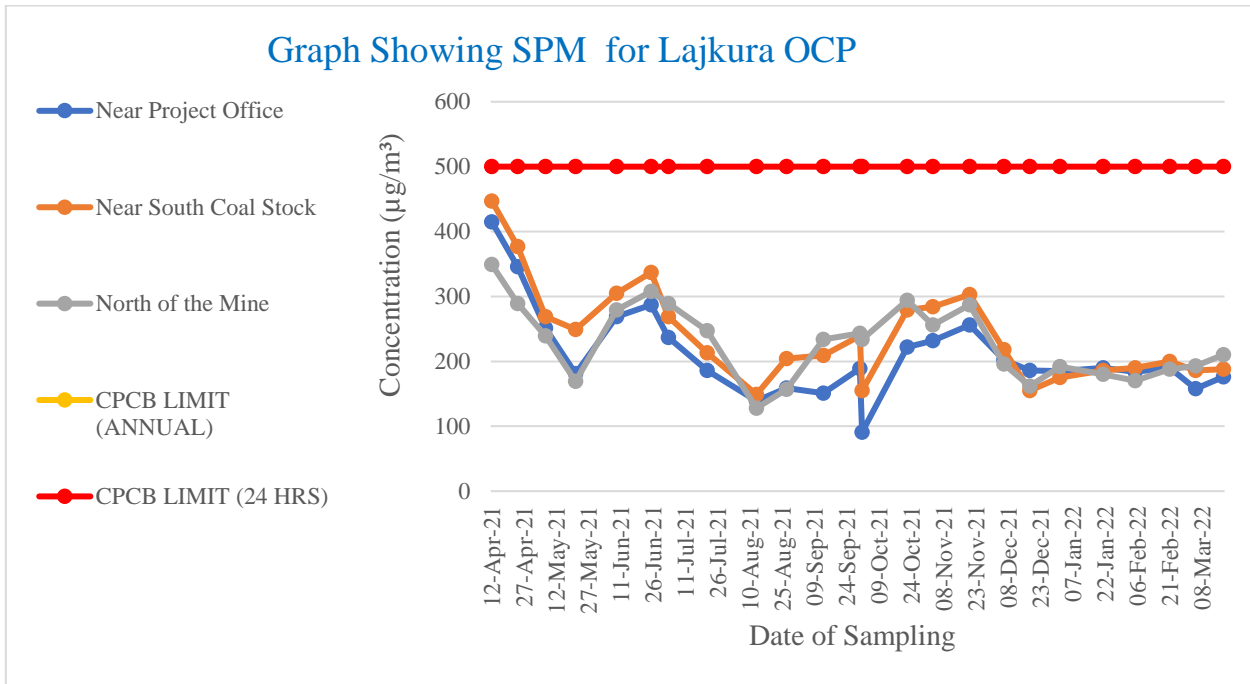
Table: 7.9

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** North of the Mine

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
12-Apr-21	349	182	67	16.73	34.27
24-Apr-21	289	142	56	14.57	27.38
07-May-21	239	128	47	18.09	40.13
21-May-21	169	80	37	23.07	24.85
10-Jun-21	279	158	47	17.87	25.97
25-Jun-21	308	189	55	16.15	31.94
05-Jul-21	289	217	45	10.68	13.99
21-Jul-21	247	144	39	8.99	12.49
13-Aug-21	128	73	22	10.23	21.08
27-Aug-21	157	90	36	10.75	19.51
14-Sep-21	234	142	48	16.48	26.26
30-Sep-21	243	139	45	16.11	22.14
11-Oct-21	234	141	47	19.29	27.72
22-Oct-21	294	179	61	15.37	23.42
03-Nov-21	256	159	48	9.1	25.47
20-Nov-21	287	184	57	10.58	21.97
06-Dec-21	196	142	43	14.59	23.44
18-Dec-21	162	102	37	16.88	22.01
03-Jan-22	192	144	36	11.81	18.43
21-Jan-22	180	155	33	14.78	15.55
05-Feb-22	170	107	44	10.33	21.13
21-Feb-22	188	133	50	11.22	19.32
05-Mar-22	193	140	53	18.13	16.13
18-Mar-22	210	143	55	17.26	29.18
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	349	217	67	23.07	40.13
Minimum	128	73	22	8.99	12.49
Average	228.9	142.2	46.2	14.5	23.5
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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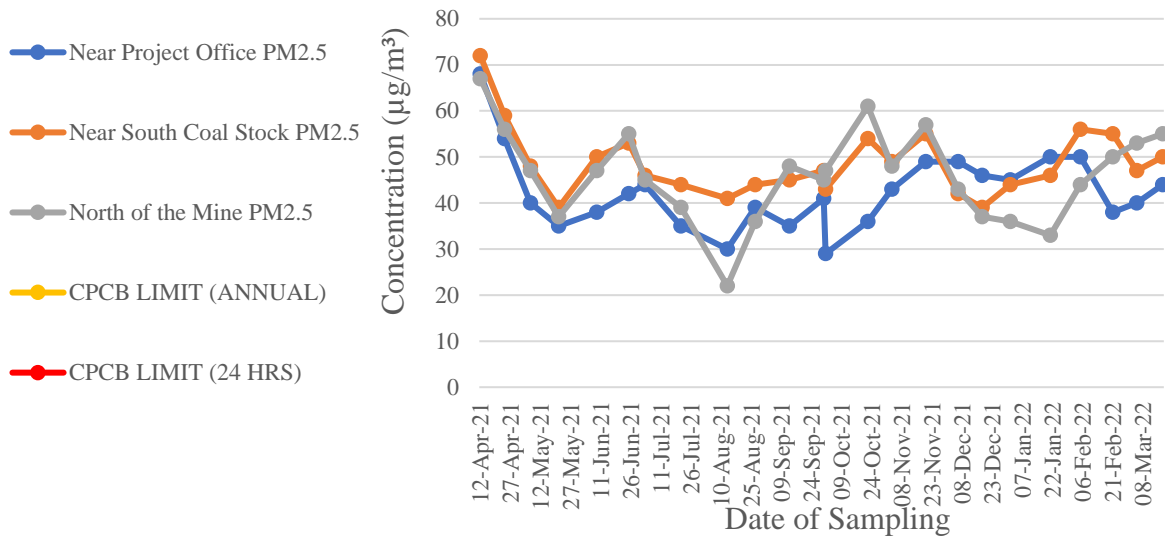
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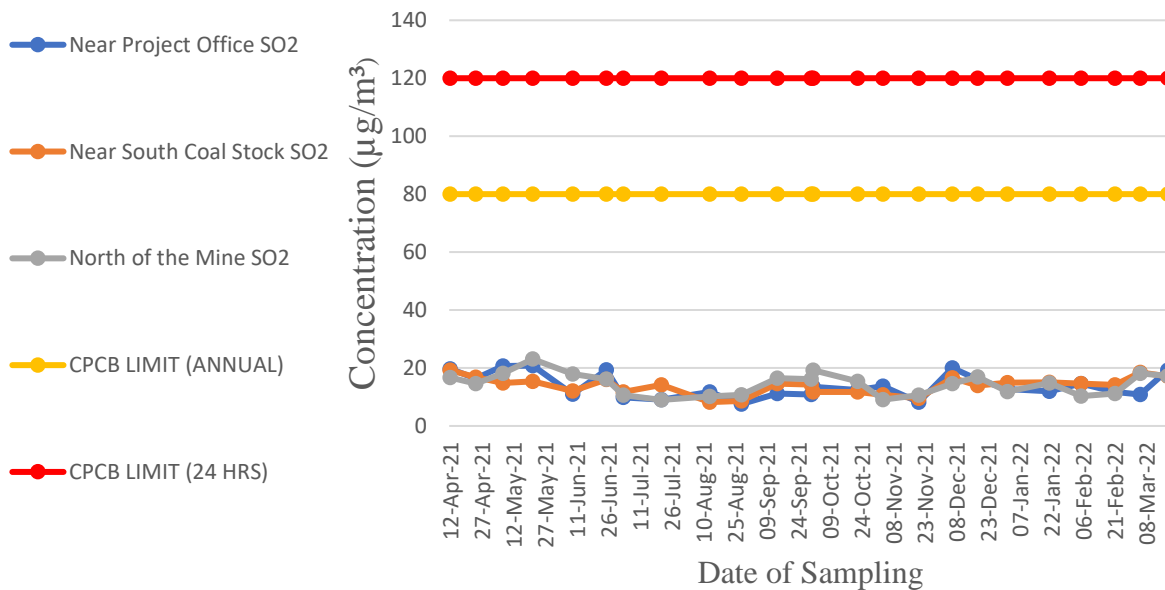
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Graph Showing PM2.5 for Lajkura OCP

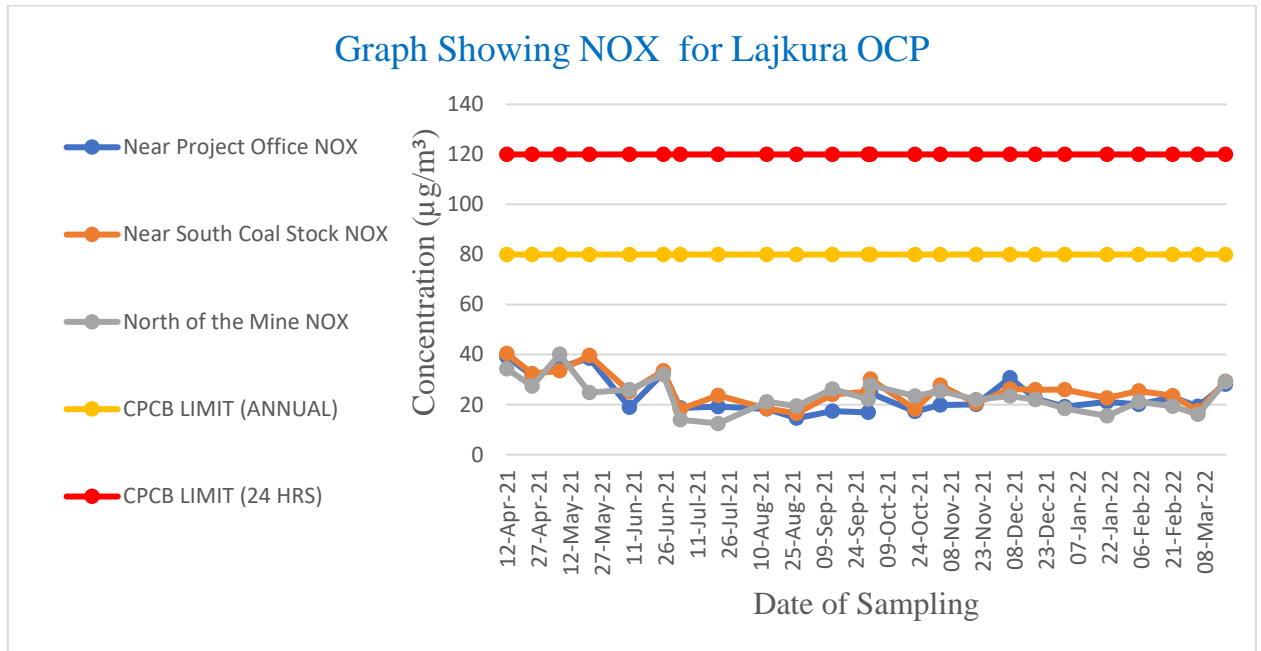


Graph Showing SOX for Lajkura OCP



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Table: 7.10

Area: Ib valley Area**Project:** Lajkura OCP**Monitoring Station:** Khokelmal

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	201	81	46	14.83	28.41
08-Apr-21	214	78	49	15.06	29.24
14-Apr-21	222	84	50	15.27	29.79
15-Apr-21	208	92	53	14.71	28.16
21-Apr-21	187	81	43	16.14	31.72
22-Apr-21	170	87	48	13.42	25.61
26-Apr-21	148	70	41	11.67	21.43
27-Apr-21	189	73	37	11.48	20.17
03-May-21	141	79	42	23.82	36.59
04-May-21	147	75	44	22.89	47.29
10-May-21	126	67	40	18.61	31.38
11-May-21	112	61	37	19.2	47.07
17-May-21	113	71	32	18.46	42.84
18-May-21	125	69	30	18.09	36.07
24-May-21	98	56	27	21.06	36.87
25-May-21	90	51	24	16.22	46.55
01-Jun-21	78	46	26	17.78	29.24
02-Jun-21	91	51	28	25.38	42.71
07-Jun-21	103	63	31	31.01	42.4
08-Jun-21	118	71	33	21.76	51.28
18-Jun-21	144	88	48	21.72	50.37
19-Jun-21	149	80	43	18.08	44.89
21-Jun-21	139	75	40	20.18	40.14
22-Jun-21	115	74	35	24.44	49.84
01-Jul-21	107	77	31	10.7	20.06
02-Jul-21	98	61	29	13.1	24.36
09-Jul-21	108	68	35	11.13	21.92
10-Jul-21	95	59	30	11.22	20.95
16-Jul-21	88	54	28	11.4	22.16
17-Jul-21	98	63	29	9.13	17.97
23-Jul-21	121	69	32	10.36	18.56
24-Jul-21	110	66	27	11.78	22.12
06-Aug-21	112	78	35	13.63	18.14
07-Aug-21	102	73	31	11.96	21.43
13-Aug-21	91	51	29	15.67	23
14-Aug-21	79	49	25	10.83	18.02
20-Aug-21	93	55	26	11.44	19.8
21-Aug-21	125	74	32	12.64	17.79
27-Aug-21	92	53	27	8.78	19.47
28-Aug-21	89	48	22	15.12	18.66
06-Sep-21	90	47	23	13	25.37
07-Sep-21	94	55	29	10.91	25.18
15-Sep-21	107	57	33	13.75	22.94
16-Sep-21	98	50	26	10.62	21.87

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22-Sep-21	120	69	29	14.66	22.89
23-Sep-21	129	65	34	11.45	17.93
29-Sep-21	139	71	39	15.16	15.93
30-Sep-21	151	79	37	11.36	21.54
06-Oct-21	105	61	39	16.4	25.01
07-Oct-21	109	64	31	15.17	27.12
13-Oct-21	134	78	39	16.43	25.03
14-Oct-21	145	83	41	17.9	29.53
22-Oct-21	147	79	43	13.1	23.42
23-Oct-21	143	83	42	16.12	24.4
29-Oct-21	158	88	48	13.6	22.7
30-Oct-21	151	93	51	11.16	17.41
01-Nov-21	137	79	43	12.08	25.59
02-Nov-21	121	74	40	17.15	22.93
12-Nov-21	156	84	48	14.54	30.54
13-Nov-21	155	88	51	18.36	17.51
22-Nov-21	108	62	37	15.72	21.49
23-Nov-21	122	78	41	11.76	25.42
29-Nov-21	164	91	53	8.56	19.49
30-Nov-21	151	85	48	10.22	22.63
06-Dec-21	122	73	42	18.47	23.34
07-Dec-21	163	75	51	17.45	20.17
13-Dec-21	134	83	40	12.19	28.32
14-Dec-21	112	82	53	13.81	39.57
22-Dec-21	128	85	36	19.14	25.34
23-Dec-21	198	89	35	12.65	29.45
29-Dec-21	155	86	31	13.83	33.28
30-Dec-21	196	85	39	15.72	31.09
07-Jan-22	144	86	25	14.78	33.01
09-Jan-22	155	90	32	19.22	28.79
14-Jan-22	166	98	40	20.15	34.27
15-Jan-22	155	87	35	12.2	23.48
21-Jan-22	155	98	28	19.25	28.62
22-Jan-22	165	79	30	14	24.41
24-Jan-22	174	82	36	15.07	28.84
25-Jan-22	170	100	40	16.23	23.23
07-Feb-22	136	77	28	19.67	21.72
08-Feb-22	122	70	24	22.15	25.63
14-Feb-22	144	85	30	16.26	21.63
15-Feb-22	155	88	34	18.2	23.56
18-Feb-22	122	88	31	16.92	22.35
19-Feb-22	133	90	27	12.64	22.68
25-Feb-22	125	75	22	13.3	20.72
26-Feb-22	130	81	24	14.72	23.38
07-Mar-22	107	55	20	21.33	21.03
08-Mar-22	129	73	29	20.89	22.11
14-Mar-22	136	65	25	13.74	21.7
15-Mar-22	155	84	24	20.69	25.65
23-Mar-22	120	66	26	13.21	22.32
24-Mar-22	115	60	20	9.12	16.36
30-Mar-22	136	77	25	11.23	18.02
31-Mar-22	150	94	33	11.25	23.63
Basic Stats	SPM	PM10	PM2.5	SO2	NOx

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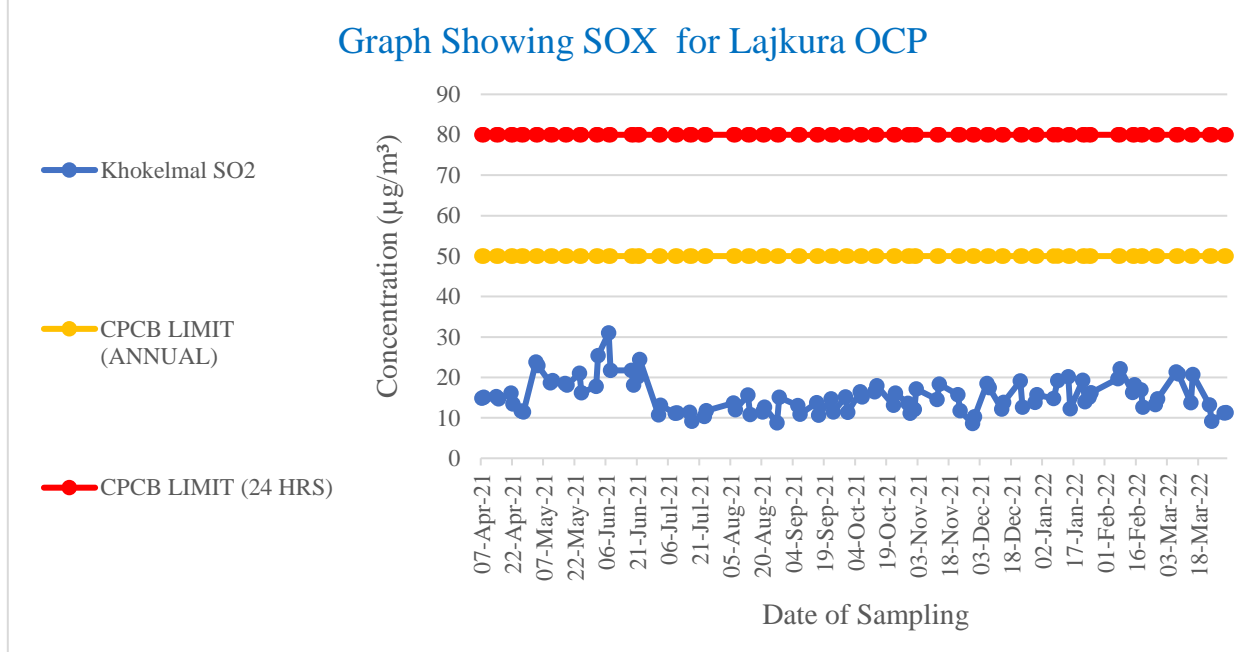
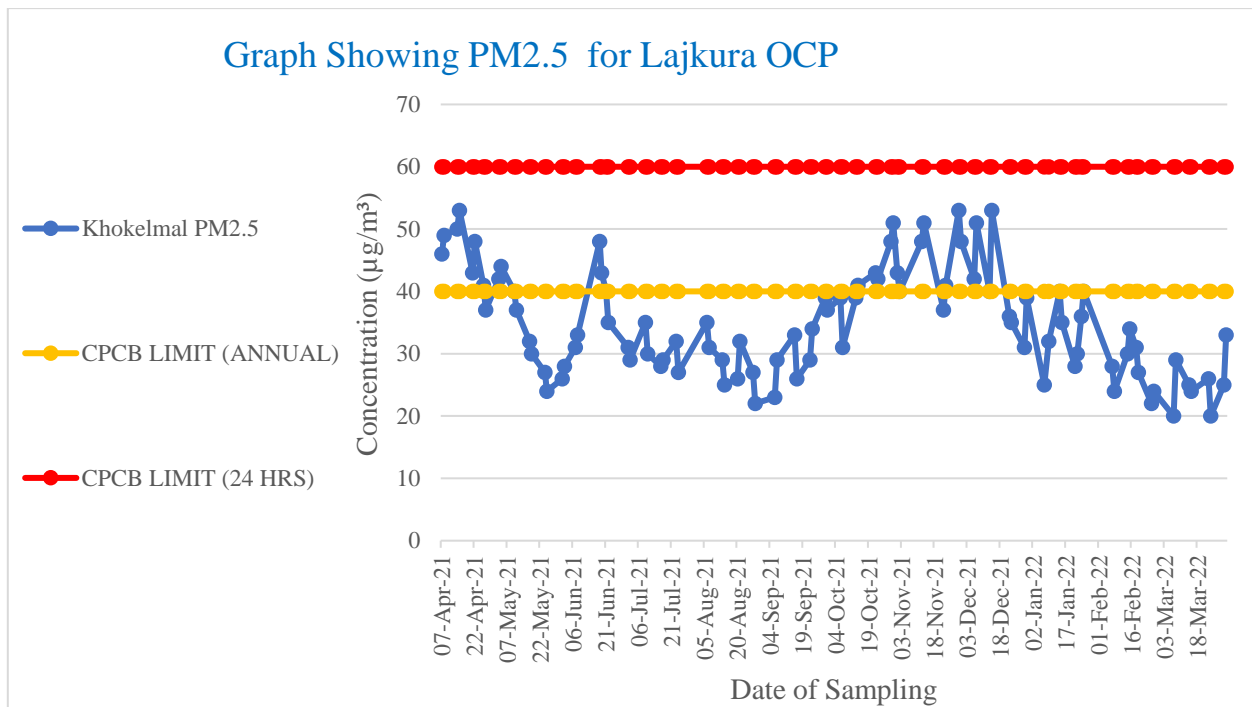
Maximum	222	100	53	31.01	51.28
Minimum	78	46	20	8.56	15.93
Average	133.1	73.9	34.9	15.4	26.8
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

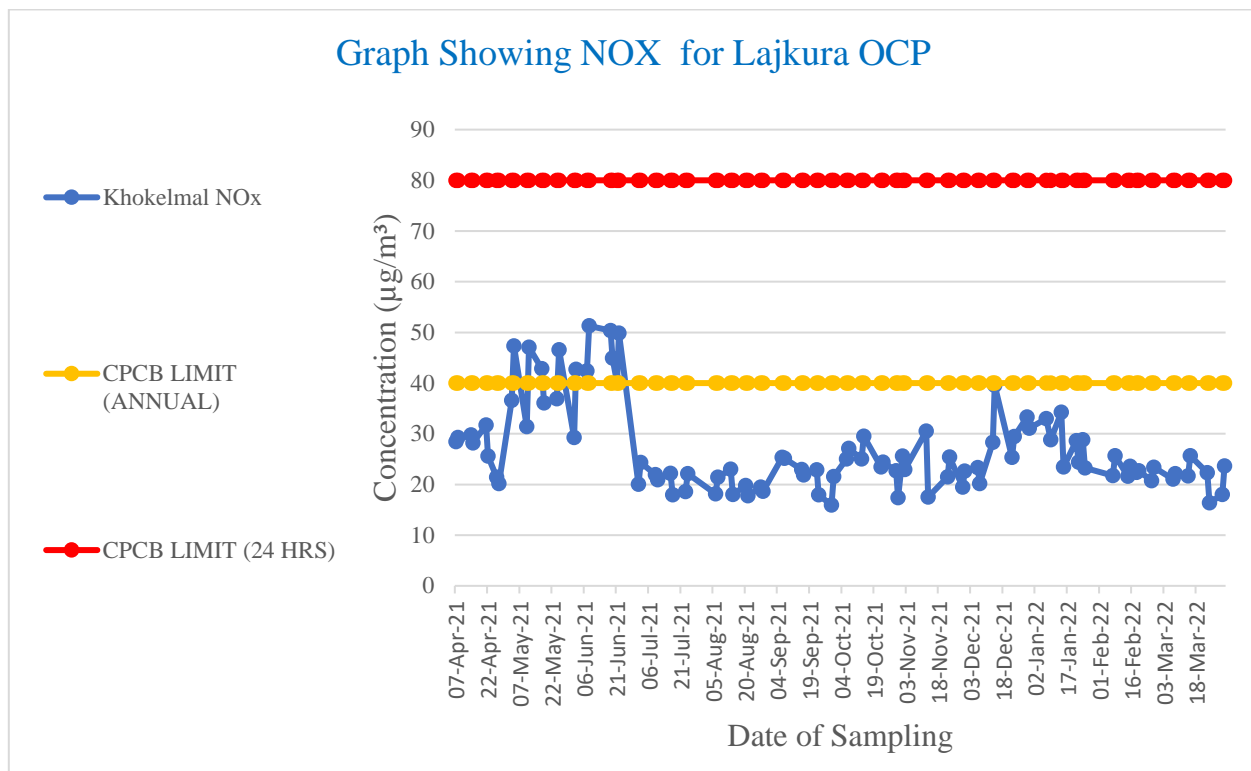


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Table: 7.11

Area: Lakhanpur

Project: Lakhanpur OCP

Monitoring Station: Near Lilari Nallah Pump House

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
03-Apr-21	233	154	48	13.84	26.75
19-Apr-21	177	94	39	10.65	20.04
08-May-21	163	96	35	16.76	47.35
22-May-21	129	80	25	20.62	21.24
10-Jun-21	113	65	30	16.31	44.29
26-Jun-21	197	109	37	18.47	27.19
06-Jul-21	152	89	39	11.1	15.86
22-Jul-21	167	95	31	8.93	19.77
11-Aug-21	117	67	34	13.19	14.4
30-Aug-21	161	89	36	10.14	15.33
15-Sep-21	106	71	31	10.78	15.85
27-Sep-21	165	96	36	12.59	16.82
12-Oct-21	227	139	43	10.73	19.19
23-Oct-21	239	151	38	10.6	16.68
08-Nov-21	209	127	47	9.1	21.03
20-Nov-21	227	141	49	11.97	19.41
07-Dec-21	196	135	48	14.2	25.57
18-Dec-21	275	162	45	12.26	19.77
04-Jan-22	200	144	41	12.2	17.76
22-Jan-22	191	135	45	15.71	22.23
05-Feb-22	172	111	40	13.5	19.62
22-Feb-22	191	144	40	10.45	17.91
05-Mar-22	148	93	38	13.79	17.28
18-Mar-22	170	130	45	14.25	25.36
Basic Stats	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	275	162	49	20.62	47.35
Minimum	106	65	25	8.93	14.4
Average	180.2	113.2	39.2	13.0	21.9
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.12

Area: Lakhanpur

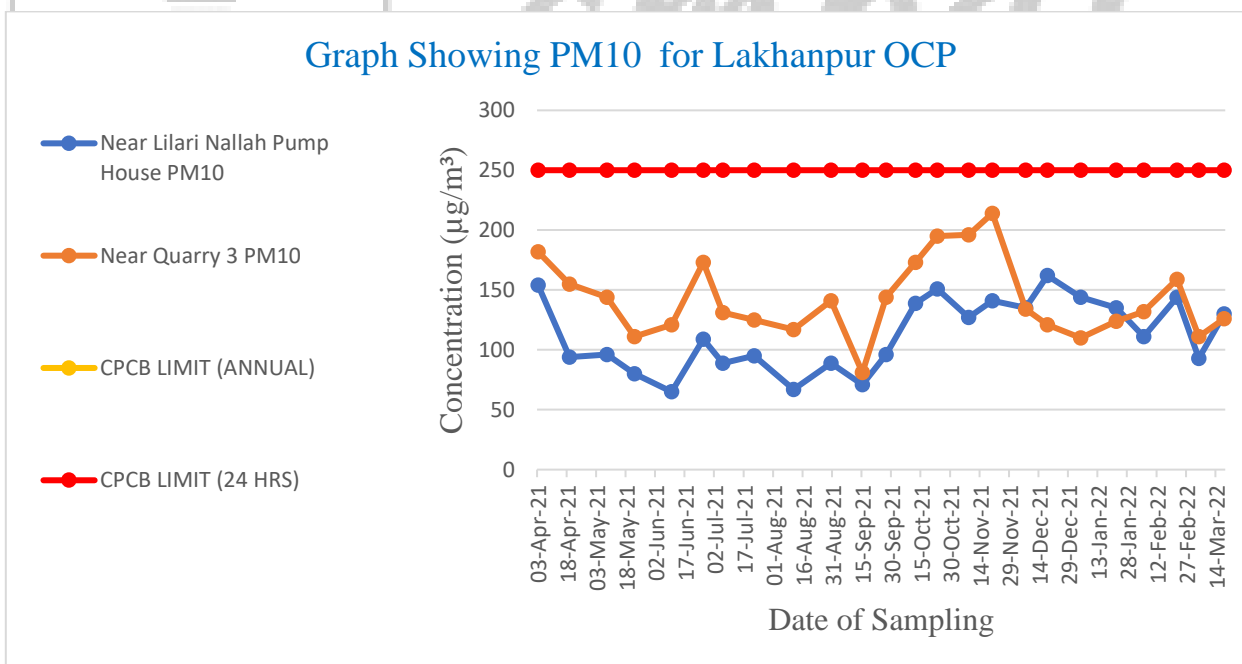
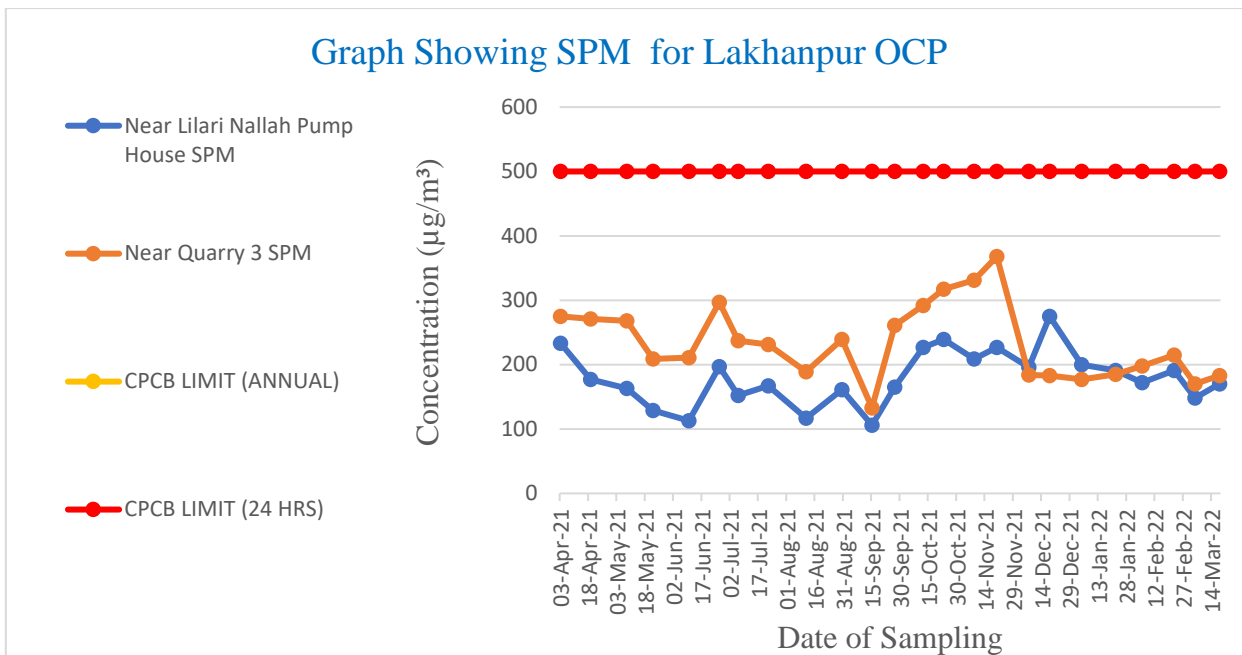
Project: Lakhanpur OCP

Monitoring Station: Near Quarry 3

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
03-Apr-21	275	182	55	14.29	27.81
28-Apr-21	271	155	57	13.52	25.63
08-May-21	268	144	48	24.34	41.82
22-May-21	209	111	36	25.14	32.22
11-Jun-21	211	121	48	26.04	43.01
26-Jun-21	297	173	55	17.02	30.8
06-Jul-21	237	131	49	12.21	21.91
22-Jul-21	231	125	45	12.89	15.61
12-Aug-21	189	117	43	10.33	20.31
30-Aug-21	239	141	47	10.38	20.14
15-Sep-21	133	81	36	11.43	24.23
28-Sep-21	261	144	48	12.6	18.69
12-Oct-21	292	173	58	17.51	28.91
23-Oct-21	317	195	63	14.99	28.15
08-Nov-21	331	196	63	18.23	22.89
20-Nov-21	368	214	66	10.08	24.8
07-Dec-21	184	134	68	15.28	32.59
18-Dec-21	183	121	46	15.81	26.99
04-Jan-22	177	110	45	15.47	29.57
22-Jan-22	185	124	47	20.2	28.27
05-Feb-22	198	132	55	14.45	22.35
22-Feb-22	215	159	45	12.8	21.41
05-Mar-22	170	111	49	17.81	22.62
18-Mar-22	183	126	39	11.25	21.23
Basic Stats	SPM	PM10	PM2.5	SO₂	NO_x
Maximum	368	214	68	26.04	43.01
Minimum	133	81	36	10.08	15.61
Average	234.3	142.5	50.5	15.6	26.3
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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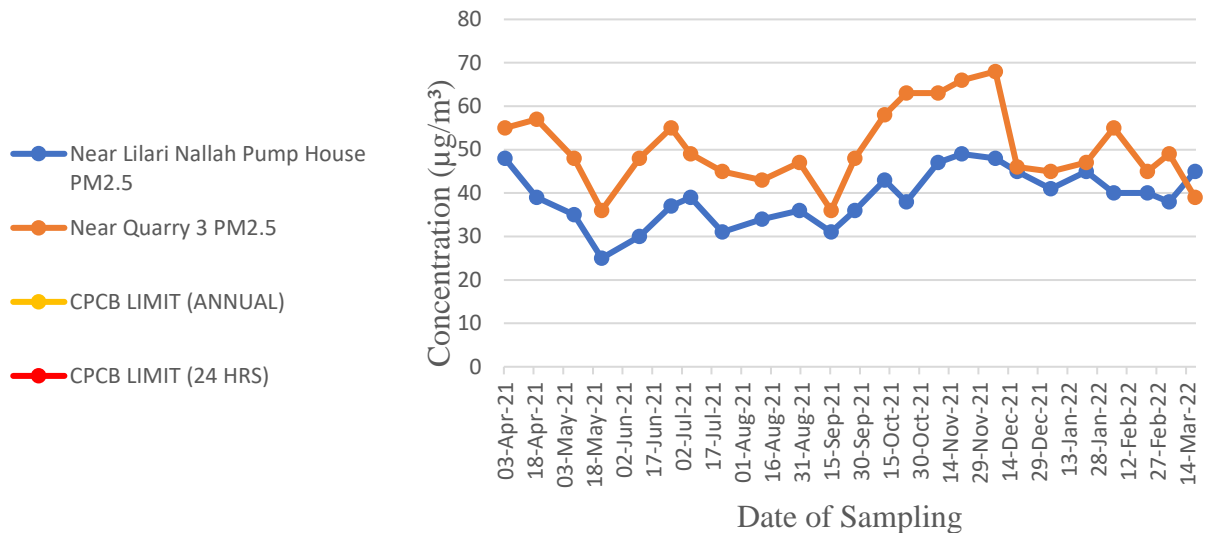
JOB NO.750001



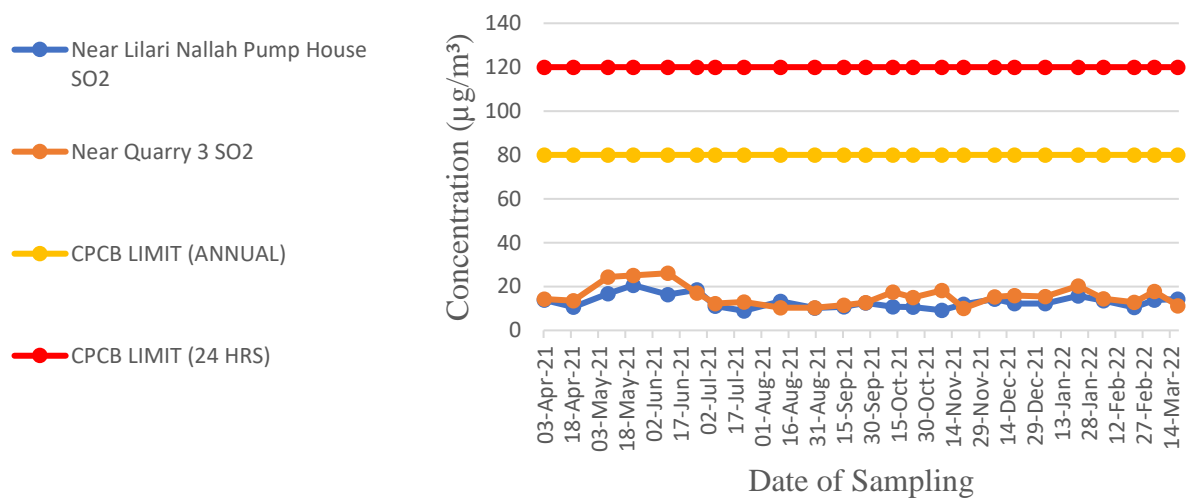
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Graph Showing PM2.5 for Lakhanpur OCP



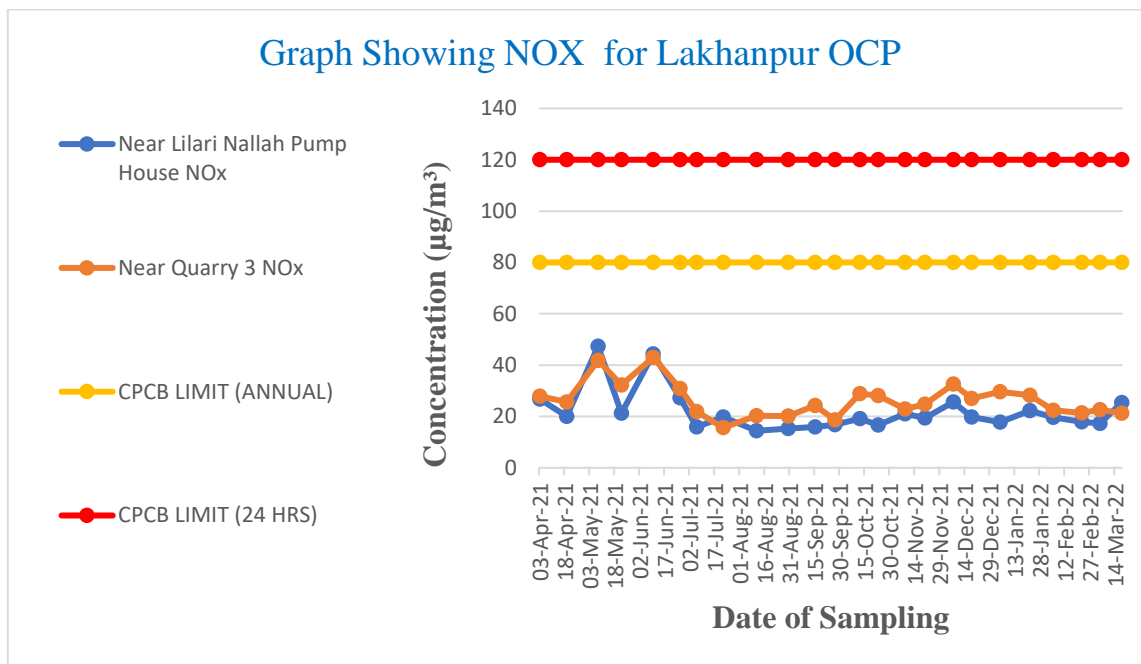
Graph Showing SO₂ for Lakhanpur OCP



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Graph Showing NOX for Lakhanpur OCP



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JOB NO.750001

Table: 7.13

Area: Lakhanpur

Project: Lakhanpur OCP

Monitoring Station: South of Quarry 6

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	192	74	39	14.63	28.19
08-Apr-21	204	82	43	16.28	30.83
14-Apr-21	189	87	49	15.72	28.4
15-Apr-21	209	92	52	16.69	31.57
21-Apr-21	153	66	38	12.34	24.19
22-Apr-21	172	79	43	12.68	24.51
27-Apr-21	201	86	50	13.92	25.84
28-Apr-21	184	81	46	13.71	25.42
03-May-21	155	78	44	17.61	30.83
04-May-21	143	73	41	19.95	33.42
10-May-21	106	60	30	19.53	25.65
11-May-21	98	56	33	17.65	29.47
17-May-21	106	61	34	20.44	27.33
18-May-21	97	57	31	16.68	23.51
24-May-21	94	51	25	18.12	30.96
25-May-21	112	59	28	20.84	37.9
01-Jun-21	119	77	42	16.67	28.06
02-Jun-21	134	85	46	22.16	35.68
07-Jun-21	111	69	39	20.58	25.98
08-Jun-21	118	67	36	19.77	31.72
18-Jun-21	160	89	47	20.16	38.99
19-Jun-21	164	86	49	21.52	30.85
21-Jun-21	169	80	39	18.99	33.32
22-Jun-21	146	66	41	22.85	38.46
01-Jul-21	139	88	25	15.21	19.01
02-Jul-21	127	76	30	10.23	18.48
09-Jul-21	118	80	35	14.21	20.73
10-Jul-21	104	62	28	11.1	21.87
16-Jul-21	116	74	38	12.71	16.24
17-Jul-21	108	62	32	13.3	22.16
23-Jul-21	126	78	40	11.23	15.26
24-Jul-21	129	71	37	9.72	18.78
04-Aug-21	124	76	34	13.64	21.89
05-Aug-21	110	68	31	9.79	26.06
11-Aug-21	99	58	26	8.36	15.63
12-Aug-21	106	64	30	10.84	21.31
18-Aug-21	151	83	43	11.41	20.71
19-Aug-21	158	89	40	17.18	17.97
25-Aug-21	125	67	32	15.14	21.13
26-Aug-21	109	61	27	17.12	16.17

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03-Sep-21	103	63	27	17.62	25.29
04-Sep-21	119	76	31	13.07	25.13
13-Sep-21	131	85	29	13.77	25.53
14-Sep-21	127	73	31	19.27	24.28
20-Sep-21	90	52	28	13.94	27.75
21-Sep-21	99	67	33	18.66	28.09
27-Sep-21	147	76	38	15.8	19.54
28-Sep-21	164	89	45	20.13	28.18
06-Oct-21	143	94	44	16.34	22.91
07-Oct-21	132	86	41	19.71	26.56
11-Oct-21	154	89	45	10.98	24.98
12-Oct-21	163	92	49	16.29	19.5
20-Oct-21	155	72	44	13.49	21.32
21-Oct-21	171	82	47	16.29	27.49
27-Oct-21	190	86	50	13.17	32.95
28-Oct-21	176	89	52	16.35	24.74
05-Nov-21	164	83	48	16.12	24.9
06-Nov-21	158	89	46	28.47	34.28
10-Nov-21	174	90	51	13.01	23.36
11-Nov-21	171	93	53	14.72	29.31
18-Nov-21	159	83	44	10.91	21.65
19-Nov-21	136	78	48	12.5	20.21
26-Nov-21	161	86	51	9.09	18.92
27-Nov-21	184	89	47	10.68	24.46
03-Dec-21	138	84	46	16.26	38.63
04-Dec-21	134	80	47	18.01	31.21
10-Dec-21	176	91	53	16.11	20.83
11-Dec-21	158	95	51	11.88	27.08
20-Dec-21	182	93	47	19.03	24.58
21-Dec-21	225	99	52	18.84	26.03
27-Dec-21	233	95	56	34.28	54.68
28-Dec-21	235	95	53	14.42	18.26
05-Jan-22	165	66	22	16.51	21.75
06-Jan-22	146	70	32	15.34	26.83
12-Jan-22	165	69	27	17.72	32.19
13-Jan-22	140	72	30	17.11	17.22
19-Jan-22	157	69	36	15.48	23.7
20-Jan-22	133	93	30	20.5	27.8
27-Jan-22	186	81	40	21	28.62
28-Jan-22	154	82	34	13.46	33.25
03-Feb-22	132	79	36	12.56	20.42
04-Feb-22	145	86	39	13.42	18
11-Feb-22	163	81	33	16.53	18.01
12-Feb-22	108	65	28	10.1	19.41
16-Feb-22	108	65	20	11.57	16.5
17-Feb-22	127	70	23	14.01	18.8
25-Feb-22	100	63	20	12.3	17.35
26-Feb-22	86	55	16	14.72	21.24

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03-Mar-22	111	59	16	16.1	25.14
04-Mar-22	128	69	26	24.53	22.33
11-Mar-22	144	73	33	14.58	23.99
12-Mar-22	128	65	30	14.36	23.85
21-Mar-22	115	67	25	10.23	18.24
22-Mar-22	139	79	28	13.25	26.1
27-Mar-22	129	73	29	11.29	24.12
28-Mar-22	123	65	22	9.07	15.63
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	235	99	56	34.28	54.68
Minimum	86	51	16	8.36	15.26
Average	143.4	76.3	37.4	15.7	25.2
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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JOB NO.750001

Table: 7.14

Area: Lakhanpur

Project: Lakhanpur OCP

Monitoring Station: South West of Quarry 6

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
07-Apr-21	206	81	49	15.41	30.72
08-Apr-21	219	77	46	17.64	32.81
14-Apr-21	196	85	51	15.16	31.27
15-Apr-21	218	89	48	17.26	31.79
21-Apr-21	163	87	44	12.46	23.57
22-Apr-21	204	90	51	14.68	27.94
27-Apr-21	188	83	47	13.15	25.72
28-Apr-21	167	95	40	12.73	23.86
03-May-21	162	79	45	16.32	32.48
04-May-21	140	72	41	21.31	35.61
10-May-21	123	59	31	18.9	49.63
11-May-21	112	65	34	23.57	57.4
17-May-21	114	66	31	17.87	27.03
18-May-21	95	61	28	18.36	39.39
24-May-21	120	63	32	20.06	23.65
25-May-21	92	49	25	22.18	32.92
01-Jun-21	96	58	33	20.9	39.96
02-Jun-21	110	64	37	18.97	30.47
07-Jun-21	124	68	40	22.81	57.6
08-Jun-21	137	79	43	19.62	45.93
16-Jun-21	159	91	50	16.66	30.19
17-Jun-21	166	86	52	21.15	23.27
21-Jun-21	143	83	48	24.69	28.48
22-Jun-21	128	73	44	15.35	26.52
01-Jul-21	123	69	44	14.33	16.86
02-Jul-21	127	75	38	12.57	16.46
09-Jul-21	107	72	28	11.86	17.29
10-Jul-21	89	50	30	8.42	18.23
16-Jul-21	99	61	31	13.39	16.36
17-Jul-21	115	71	36	10.09	21.02
23-Jul-21	137	81	43	13.26	16.36
24-Jul-21	144	79	38	9.12	19.45
04-Aug-21	149	79	34	10.67	19.17
05-Aug-21	139	83	37	12.61	15.92
11-Aug-21	75	52	28	8.67	18.75
12-Aug-21	94	55	25	9.18	18.18
18-Aug-21	122	78	38	8.66	20.95
19-Aug-21	106	65	33	10.09	15.26
25-Aug-21	97	56	30	12.18	13.75
26-Aug-21	116	68	27	16.1	21.6

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03-Sep-21	117	66	34	11.35	18.7
04-Sep-21	105	68	33	9.31	23.82
13-Sep-21	120	73	36	12.9	23.13
14-Sep-21	133	76	31	10.37	22.43
20-Sep-21	98	59	31	9.45	14.5
21-Sep-21	111	71	34	12.15	25.49
27-Sep-21	133	86	41	14.36	19.52
28-Sep-21	151	91	45	11.45	17.7
06-Oct-21	137	83	39	15.18	25.64
07-Oct-21	151	89	43	13.63	21.54
11-Oct-21	145	87	45	11.28	20.98
12-Oct-21	161	93	49	15.79	22.13
20-Oct-21	153	80	45	14.24	22.51
21-Oct-21	180	85	48	14.16	27.46
27-Oct-21	177	93	53	12.28	26.35
28-Oct-21	156	90	51	17.71	23.93
05-Nov-21	165	77	42	18.61	20.74
06-Nov-21	158	86	47	21.31	35.26
10-Nov-21	169	85	49	12.98	30.12
11-Nov-21	186	91	52	12.71	33.74
18-Nov-21	161	84	43	12.21	22.75
19-Nov-21	157	90	46	10.93	22.26
26-Nov-21	185	94	54	12.4	23.11
27-Nov-21	191	88	52	9	18.85
03-Dec-21	162	83	43	14.11	23.52
04-Dec-21	112	72	41	13.5	28.4
10-Dec-21	140	73	45	19.55	34.41
11-Dec-21	153	89	49	15.63	31.88
20-Dec-21	136	98	58	17.95	29.73
21-Dec-21	203	93	54	19.68	23.7
27-Dec-21	175	90	56	15.87	31.97
28-Dec-21	133	92	52	15.97	19.45
05-Jan-22	145	68	26	16.21	29.24
06-Jan-22	165	78	23	15.48	26.85
12-Jan-22	152	80	29	15.2	30.33
13-Jan-22	132	77	24	20.78	24.16
19-Jan-22	129	97	33	14.95	28.76
20-Jan-22	158	70	36	14.43	23.7
27-Jan-22	133	66	40	16.41	27.81
28-Jan-22	136	62	37	15.34	20.86
03-Feb-22	127	62	22	17.13	18.57
04-Feb-22	135	68	26	15.14	16.99
11-Feb-22	144	74	30	19.74	19.58
12-Feb-22	156	79	34	20.09	18.91
16-Feb-22	136	66	30	9.09	24.72
17-Feb-22	155	77	36	14.51	29.95
25-Feb-22	130	60	21	15.52	22.45
26-Feb-22	107	70	22	11.43	19.78

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03-Mar-22	116	63	25	17	22.23
04-Mar-22	147	74	35	12.02	22.55
11-Mar-22	154	88	39	15	20.18
12-Mar-22	136	70	27	18.06	27.35
21-Mar-22	149	76	33	10.59	23.41
22-Mar-22	134	70	30	13.25	24.23
28-Mar-22	122	65	25	15.23	22.89
29-Mar-22	135	70	27	11.25	21.09
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	219	98	58	24.69	57.6
Minimum	75	49	21	8.42	13.75
Average	141.3	76.1	38.3	14.9	25.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

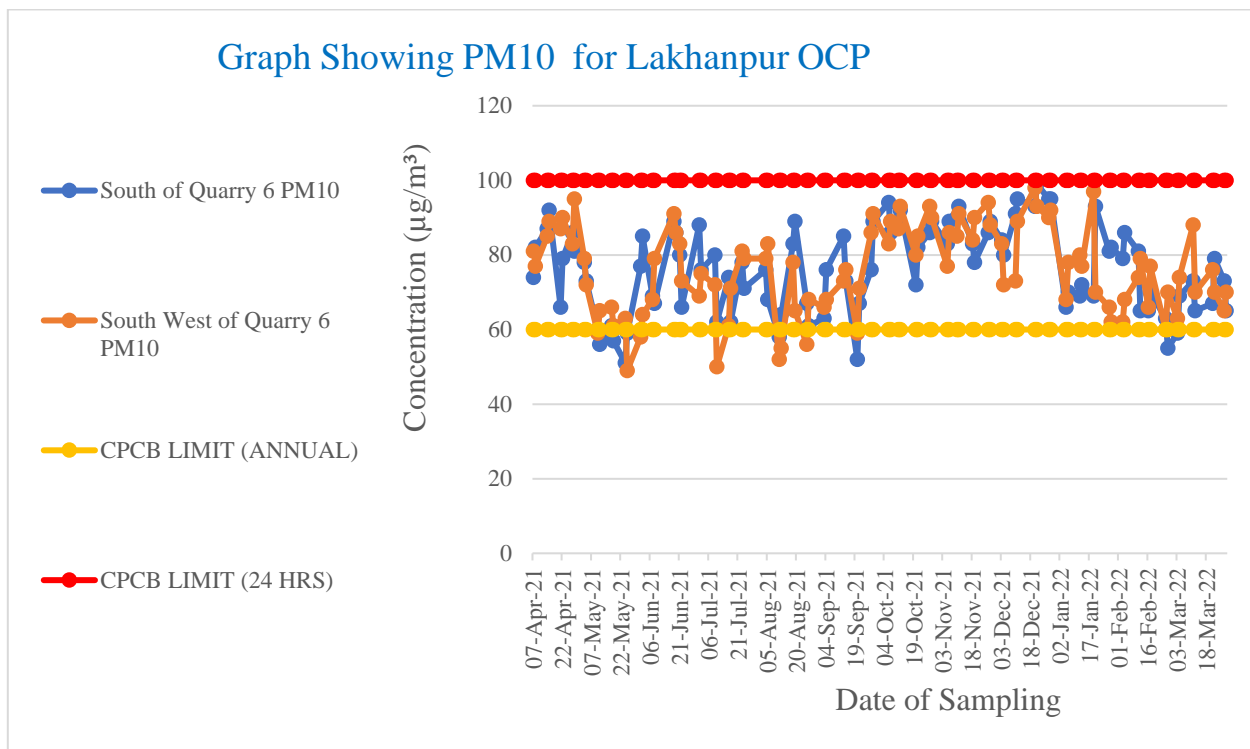


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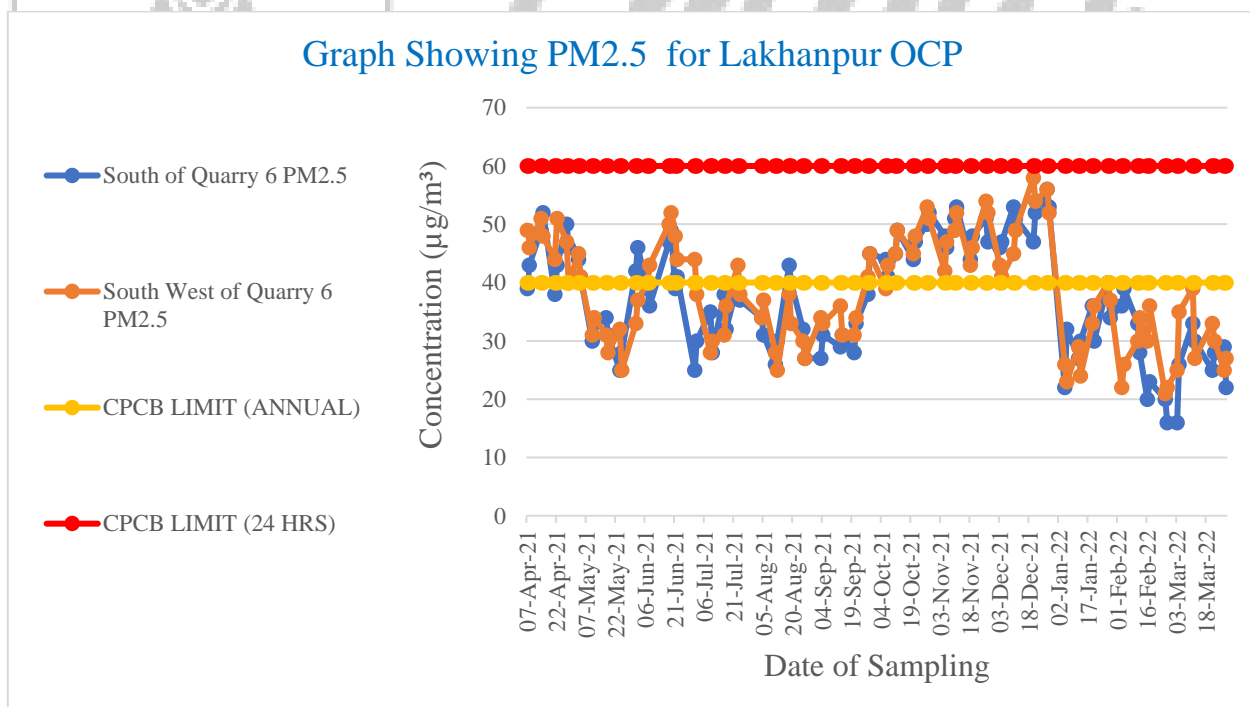
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Graph Showing PM10 for Lakhanpur OCP



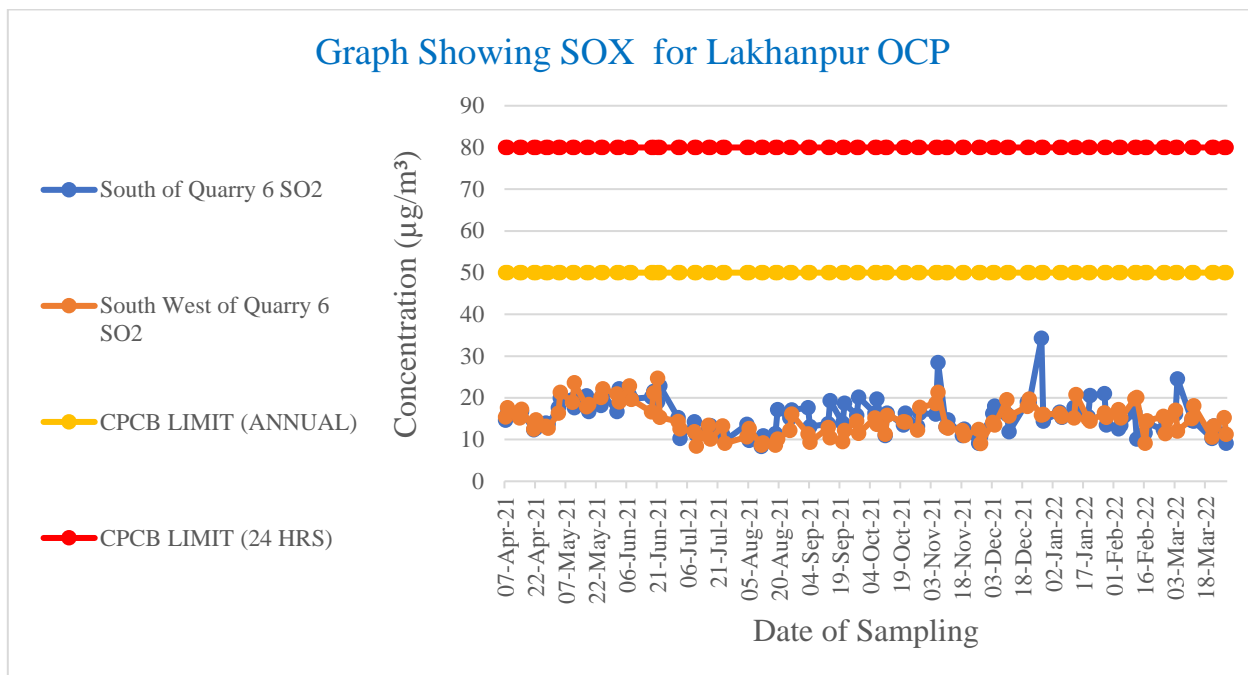
Graph Showing PM2.5 for Lakhanpur OCP



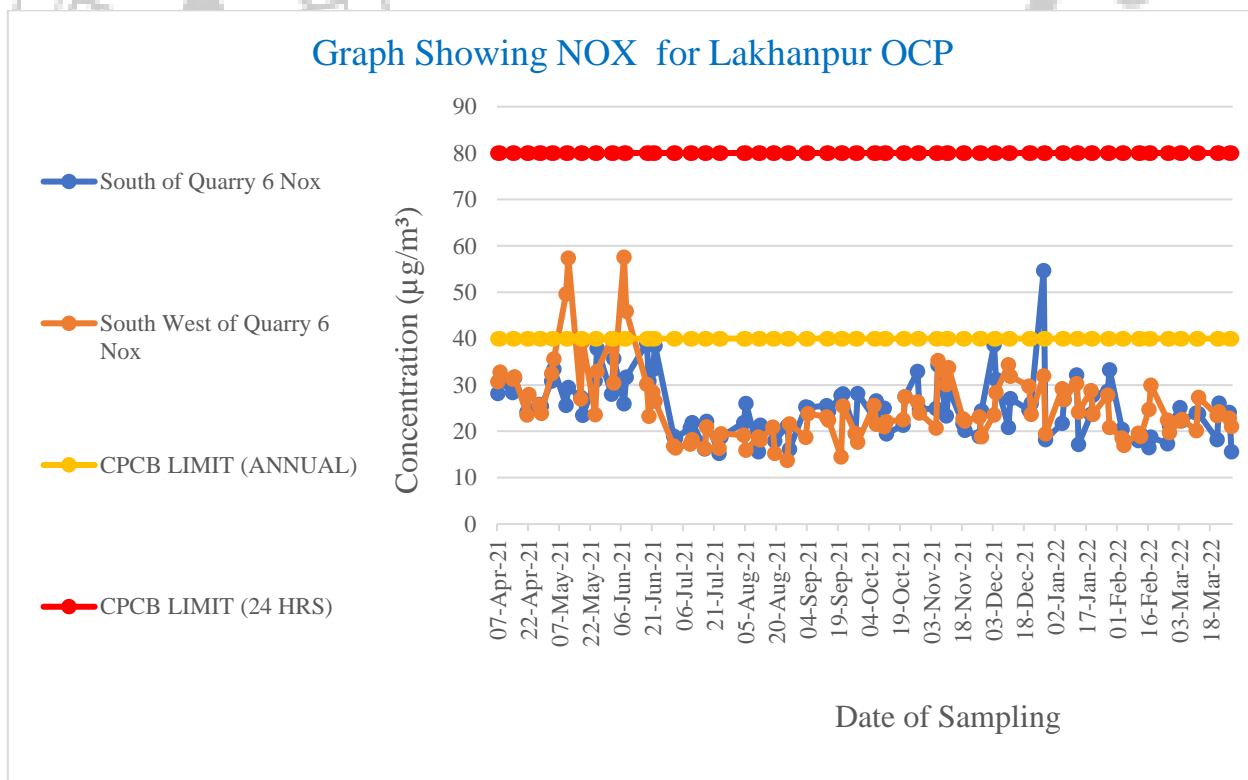
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Graph Showing SOX for Lakhanpur OCP



Graph Showing NOX for Lakhanpur OCP



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Table: 7.15

Area: Lakhanpur

Project: Belpahar OCP

Monitoring Station: Near Central Workshop

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
03-Apr-21	378	218	61	15.72	31.48
20-Apr-21	346	188	52	15.38	30.49
12-May-21	256	139	46	16.16	23.99
26-May-21	165	93	35	21.22	22.67
11-Jun-21	247	149	51	16.81	23.98
28-Jun-21	319	203	58	16.52	23.66
07-Jul-21	247	161	47	8.72	14.53
26-Jul-21	257	149	44	10.33	20.25
14-Aug-21	182	105	36	12.92	17.66
30-Aug-21	217	143	46	7.88	18.36
16-Sep-21	176	107	39	12.5	24.39
30-Sep-21	226	128	46	12.2	22.22
13-Oct-21	277	167	53	11.16	28.78
27-Oct-21	329	197	64	10.69	16.21
09-Nov-21	297	174	56	11.54	15.55
24-Nov-21	339	198	61	8.37	13.95
08-Dec-21	169	106	37	12.45	18.4
22-Dec-21	161	98	45	14.72	23.86
07-Jan-22	166	103	39	14.96	23.77
28-Jan-22	186	129	44	15.7	23.35
07-Feb-22	222	148	48	15.6	14.09
22-Feb-22	160	130	45	12.13	21.14
07-Mar-22	222	136	45	15.66	14.24
23-Mar-22	133	107	39	12.32	19.56
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	378	218	64	21.22	31.48
Minimum	133	93	35	7.88	13.95
Average	236.5	144.8	47.4	13.4	21.1
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.16

Area: Lakhanpur

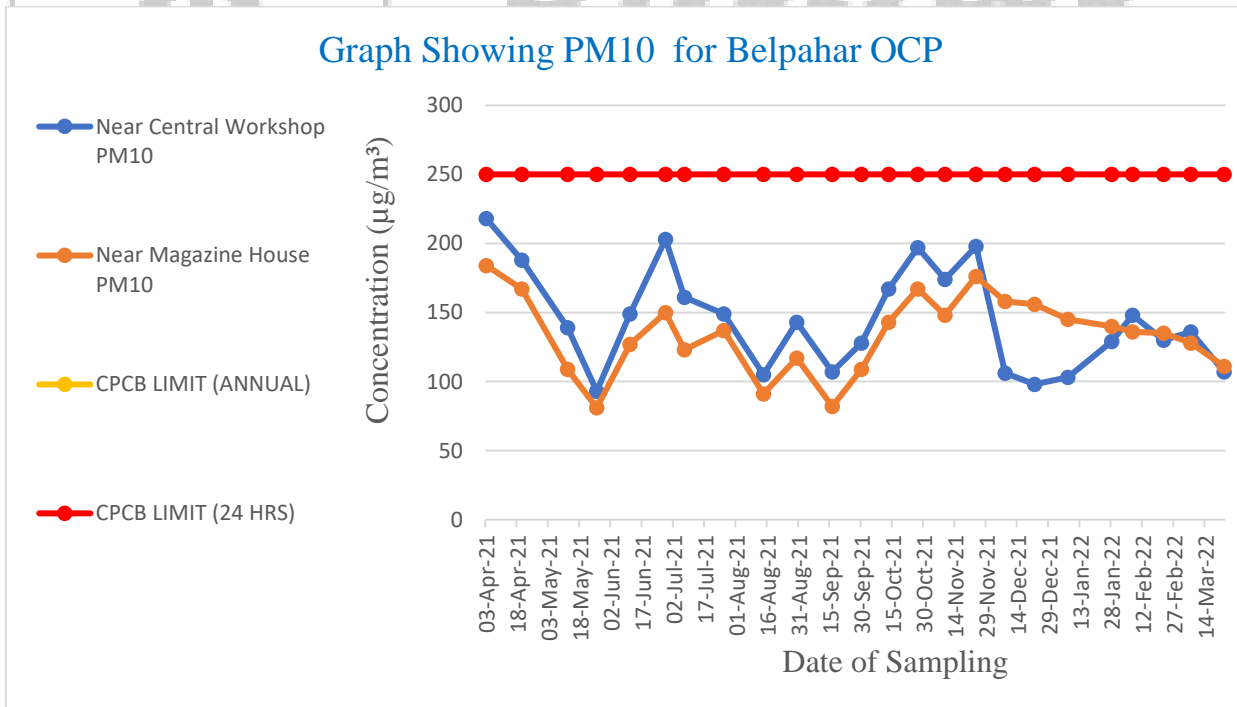
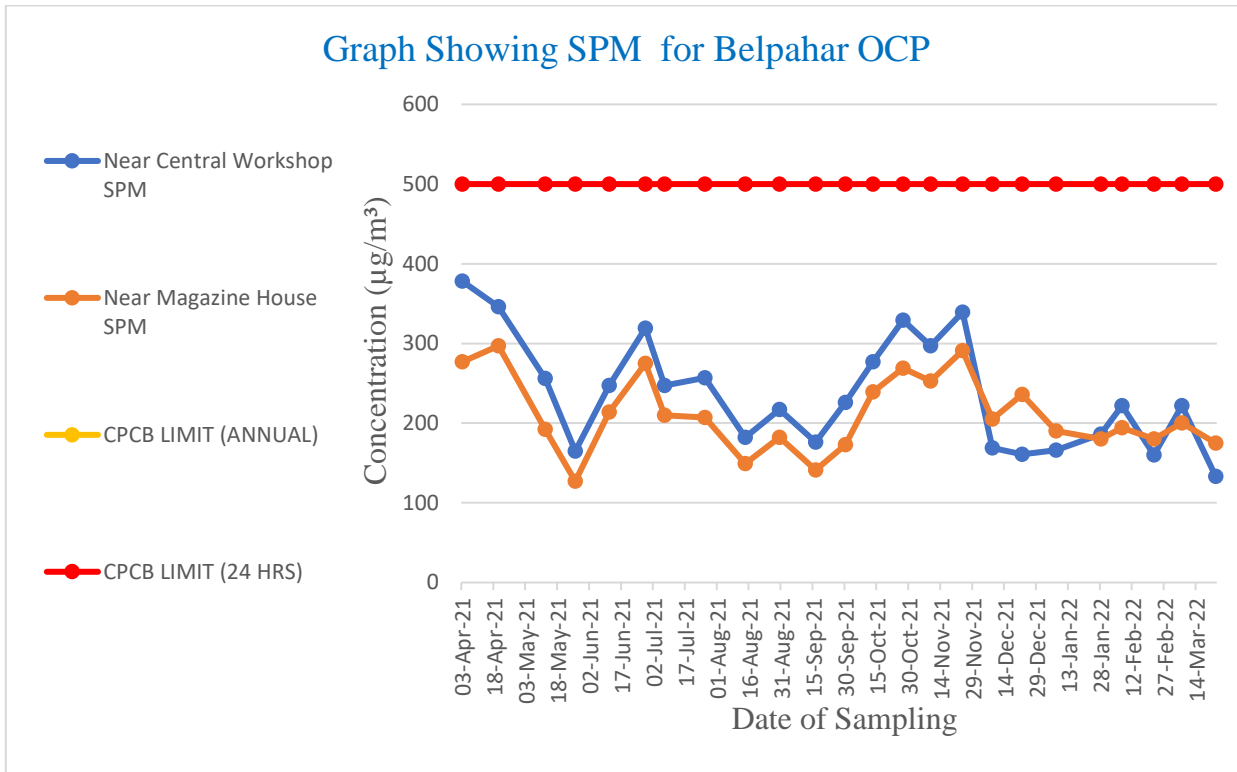
Project: Belpahar OCP

Monitoring Station: Near Magazine House

Date of Sampling	SPM	PM10	PM2.5	SO ₂	NO _x
07-Apr-21	277	184	53	13.48	25.73
21-Apr-21	297	167	52	13.67	25.13
12-May-21	192	109	43	15.76	36.58
26-May-21	127	81	33	19.64	20.5
11-Jun-21	214	127	49	17.72	39.52
28-Jun-21	275	150	46	18.77	39.82
07-Jul-21	210	123	39	14.5	15.02
26-Jul-21	207	137	42	12.42	23.12
13-Aug-21	149	91	32	9.97	13.94
30-Aug-21	182	117	41	14.4	14.38
16-Sep-21	141	82	34	14.46	22.13
29-Sep-21	173	109	43	13.75	25.09
13-Oct-21	239	143	48	14.09	20.84
27-Oct-21	269	167	55	13.17	17.23
09-Nov-21	253	148	45	11.61	20.51
24-Nov-21	291	176	51	8.04	12.98
08-Dec-21	205	158	73	12.42	18.4
22-Dec-21	236	156	42	16.31	21.37
07-Jan-22	190	145	44	7.71	18.53
27-Jan-22	180	140	40	15.85	22.43
07-Feb-22	194	136	40	12.36	12.9
22-Feb-22	180	135	50	10.95	25.09
07-Mar-22	200	128	41	16.06	17.15
23-Mar-22	175	111	45	15.62	24.23
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	297	184	73	19.64	39.82
Minimum	127	81	32	7.71	12.9
Average	210.7	134.2	45.0	13.9	22.2
Standard 24 hr	500	250		120	120
Standard Annual				80	80

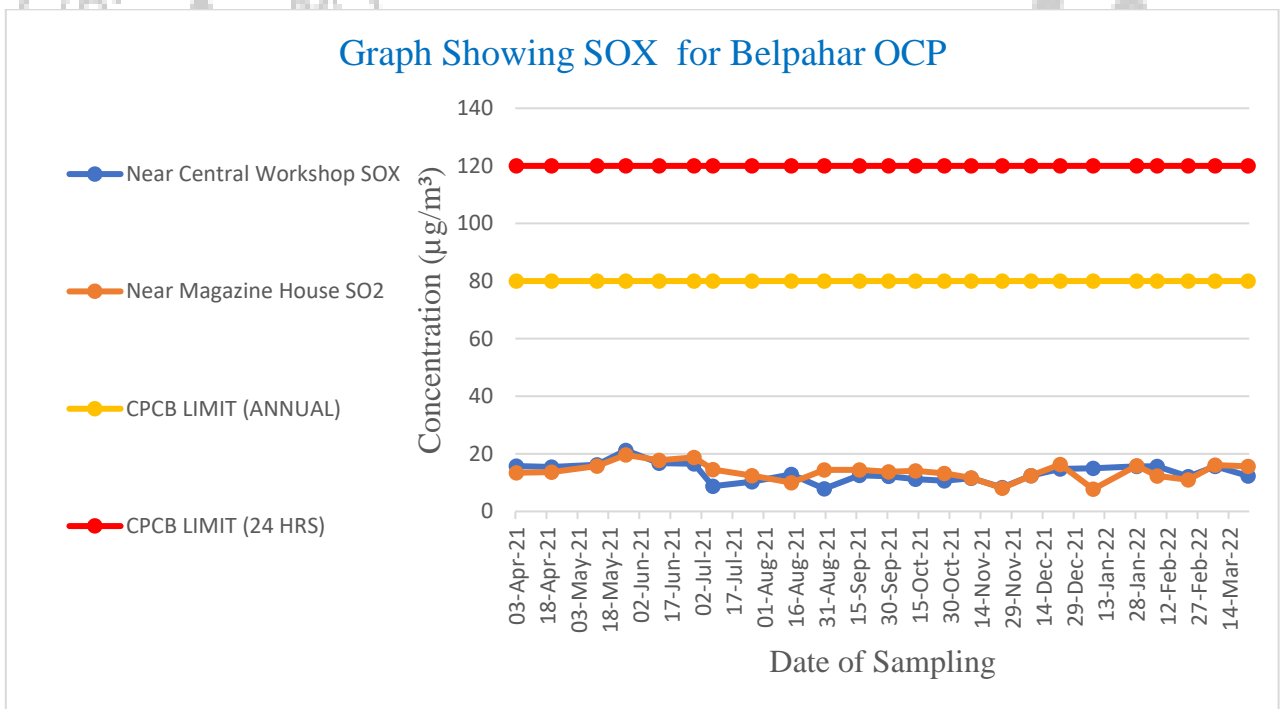
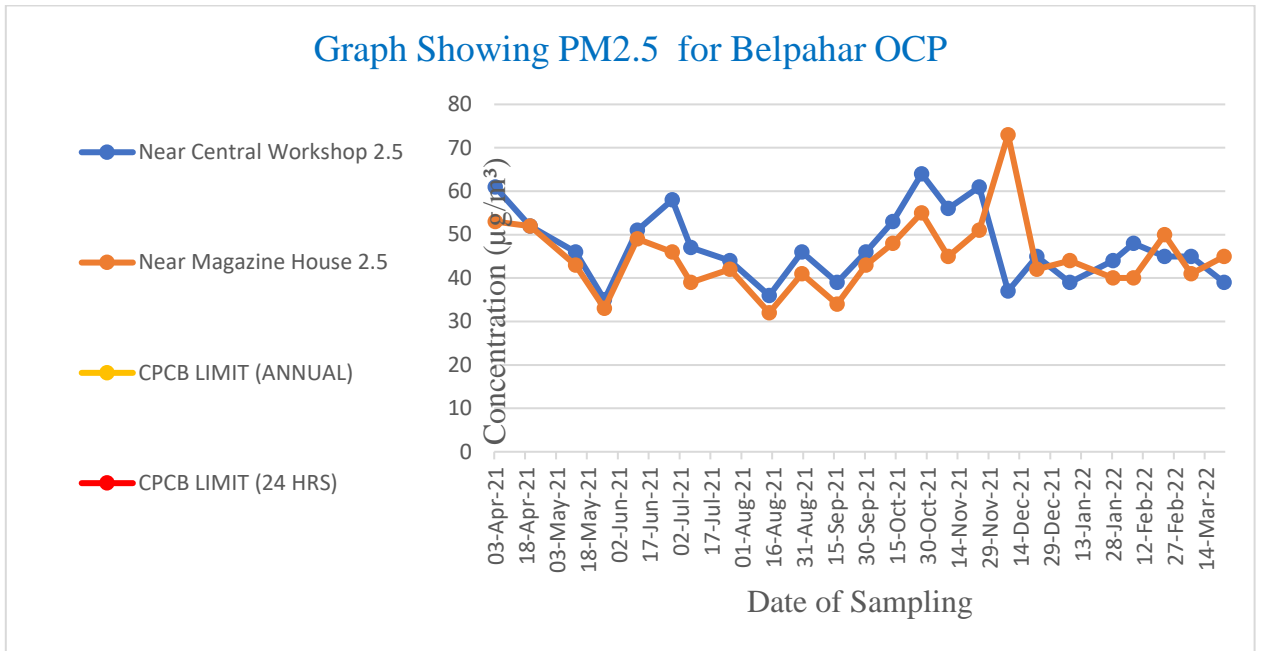
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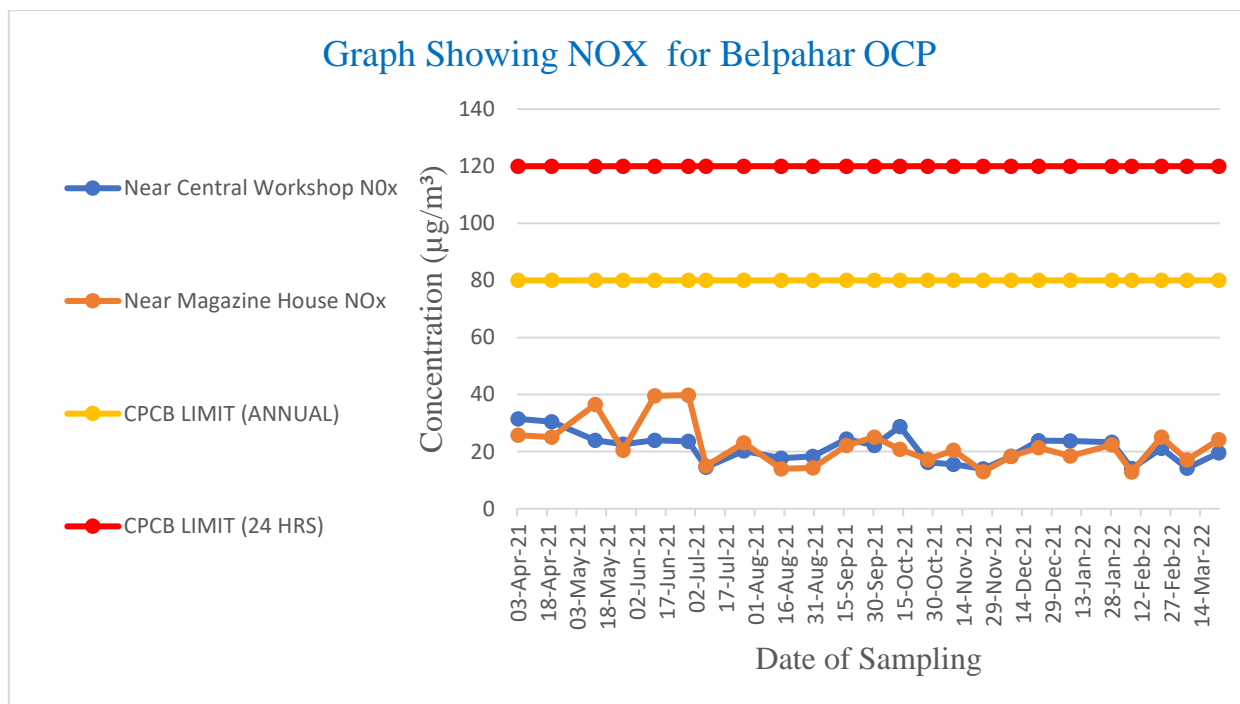
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Table: 7.17

Area: Lakhanpur

Project: Belpahar OCP

Monitoring Station: East of the Mine

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
06-Apr-21	203	78	50	15.83	29.61
07-Apr-21	208	90	53	16.4	30.48
13-Apr-21	203	82	45	15.62	29.41
14-Apr-21	193	85	48	14.86	28.62
20-Apr-21	169	78	43	12.63	24.71
21-Apr-21	205	91	52	14.79	27.53
26-Apr-21	191	86	50	13.58	25.97
27-Apr-21	182	79	42	13.21	25.36
03-May-21	171	84	41	17.61	30.13
04-May-21	157	75	38	25.24	37.09
10-May-21	142	68	31	26.59	37.88
11-May-21	147	66	34	23.55	46.61
17-May-21	117	71	32	18.7	24.4
18-May-21	105	68	30	17.61	19.62
24-May-21	109	59	27	25.38	37.6
25-May-21	103	69	31	14.91	29.84
01-Jun-21	118	72	32	19.01	31.27
02-Jun-21	102	62	36	22.81	32.22
07-Jun-21	137	78	41	26.1	35.74
08-Jun-21	126	76	39	23.9	45.47
16-Jun-21	159	78	43	18.56	31.99
17-Jun-21	150	80	48	23.2	34.45
21-Jun-21	131	74	40	12.03	37.59
22-Jun-21	139	72	37	18.9	37.51
01-Jul-21	152	79	33	13.07	18.43
02-Jul-21	148	82	39	10.17	11.8
09-Jul-21	140	75	37	16.59	13.83
10-Jul-21	107	68	34	12.08	20.87
16-Jul-21	83	58	26	11.05	16.75
17-Jul-21	97	53	24	9.29	21.67
23-Jul-21	102	61	29	8.25	24.33
24-Jul-21	110	65	33	11.45	17.88
30-Jul-21	140	80	45	12.85	25.12
04-Aug-21	108	59	26	12.66	23.48
05-Aug-21	121	71	33	9.09	15.84
11-Aug-21	129	60	30	14.17	19.51
12-Aug-21	111	64	27	15.52	25.82
18-Aug-21	93	65	30	11.11	19.28
19-Aug-21	115	74	34	9.66	21.19
25-Aug-21	89	64	27	9.02	24.02

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26-Aug-21	92	59	23	18.17	28.59
03-Sep-21	124	63	34	14.55	24.61
04-Sep-21	84	42	28	13.08	22.45
13-Sep-21	81	48	25	10.9	23.35
14-Sep-21	95	53	30	17.33	20.95
20-Sep-21	109	64	31	10.42	24.9
21-Sep-21	124	66	35	17.46	31.66
27-Sep-21	151	83	40	12.38	15.3
28-Sep-21	159	88	43	13.65	21.31
29-Sep-21	132	69	37	6.84	25.35
06-Oct-21	119	76	38	15.38	30.96
07-Oct-21	133	84	41		
11-Oct-21	163	87	45	17.88	29.52
12-Oct-21	151	79	41	36.52	66.48
20-Oct-21	156	76	43	17.42	24.65
21-Oct-21	147	78	47	16.27	23.91
27-Oct-21	165	89	51	14.14	24.78
28-Oct-21	183	94	54	16.31	28.48
05-Nov-21	153	79	45	17.88	31
06-Nov-21	167	83	49	18.05	20.85
10-Nov-21	164	91	53	18.17	26.01
11-Nov-21	157	88	50	17.19	32.6
18-Nov-21	133	78	38	11.41	24.66
19-Nov-21	153	82	44	9.52	17.95
26-Nov-21	168	85	47	9.19	21.82
27-Nov-21	173	88	50	10.54	25.94
03-Dec-21	127	90	40	12.95	23.99
04-Dec-21	135	97	32	13.27	32.46
10-Dec-21	151	82	46	15.9	35.11
11-Dec-21	143	85	48	16.56	34.89
20-Dec-21	156	95	43	16.85	21.73
21-Dec-21	201	92	38	20.2	26
27-Dec-21	200	92	39	17.42	28.86
28-Dec-21	171	93	35	17	32.74
05-Jan-22	154	65	34	20.31	24.43
06-Jan-22	144	90	36	15.04	25.4
12-Jan-22	158	98	42	19.88	29.18
13-Jan-22	133	95	33	15.71	30.38
19-Jan-22	140	98	30	18.49	17.29
20-Jan-22	156	74	33	13.07	25.45
27-Jan-22	166	70	40	17.19	23.06
28-Jan-22	124	90	37	21.35	29.46
03-Feb-22	136	78	33	14.91	22.14
04-Feb-22	148	84	36	15.53	17.01
11-Feb-22	140	71	30	12.36	21.42
12-Feb-22	165	90	39	18.57	23.8
16-Feb-22	166	96	30	14.25	20.11
17-Feb-22	150	93	32	13.87	18.53

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25-Feb-22	126	75	23	10.32	20.2
26-Feb-22	135	82	28	12.53	22.4
03-Mar-22	155	90	30	15.27	22.08
04-Mar-22	147	84	24	19.61	21.35
11-Mar-22	135	84	36	13.91	23.33
12-Mar-22	125	76	31	21.87	27.38
21-Mar-22	148	77	33	15.23	24.63
22-Mar-22	135	73	28	11.25	18.32
28-Mar-22	126	65	21	9.02	18.23
28-Mar-22	126	65	21	9.02	18.23
29-Mar-22	147	76	25	10.23	17.99
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	208	98	54	36.52	66.48
Minimum	81	42	21	9.02	17.01
Average	141.6	77.1	36.7	15.7	25.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 7.18

Area: Lakhanpur

Project: Belpahar OCP

Monitoring Station: South of the Mine

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Apr-21	221	79	45	21.27	39.53
02-Apr-21	208	83	48	20.83	38.81
08-Apr-21	211	73	49	20.18	38.26
09-Apr-21	219	73	42	20.59	38.69
15-Apr-21	203	67	47	19.97	38.05
16-Apr-21	222	89	46	17.25	33.28
22-Apr-21	237	97	53	17.63	33.41
23-Apr-21	194	81	49	16.82	32.65
28-Apr-21	179	68	40	16.41	32.47
29-Apr-21	172	75	47	16.25	32.14
03-May-21	168	83	46	24.34	33.93
04-May-21	141	76	44	16.53	28.27
10-May-21	144	70	35	12.43	36.51
11-May-21	117	64	31	18.03	50.5
17-May-21	109	62	34	18.68	35.69
18-May-21	91	59	28	15.95	47.39
24-May-21	107	68	30	16.62	41.79
25-May-21	88	55	26	20.58	53.1
01-Jun-21	145	82	42	26.07	34.93
02-Jun-21	137	70	39	22.12	36.37
07-Jun-21	140	78	43	12.61	35.59
08-Jun-21	135	68	38	18.1	48.75
14-Jun-21	117	74	37	23.46	37.29
15-Jun-21	135	86	46	27.04	45.51
21-Jun-21	162	89	49	18.38	23.97
22-Jun-21	174	85	51	13.71	38.97
01-Jul-21	154	88	46	9.94	16.57
02-Jul-21	133	80	36	16.41	18.01
09-Jul-21	125	76	40	11.4	24.54
10-Jul-21	112	71	42	8.47	16.93
16-Jul-21	86	53	30	8.66	16.94
17-Jul-21	94	50	27	16.59	18.68
23-Jul-21	103	56	25	9.06	15.23
24-Jul-21	111	67	32	11.56	19.63
04-Aug-21	136	81	36	11.06	18.41
05-Aug-21	116	72	31	10.13	21.45
11-Aug-21	90	52	23	12.68	20.28
12-Aug-21	193	101	41	15.13	21.36
18-Aug-21	89	47	28	11.33	21.02
19-Aug-21	101	56	32	11.15	32.26

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25-Aug-21	159	87	40	12.42	26.68
26-Aug-21	144	83	43	14.72	28.32
03-Sep-21	139	79	36	11.61	23.93
04-Sep-21	126	68	32	7.71	26.68
13-Sep-21	145	93	43	15.58	23.96
14-Sep-21	124	84	37	12.03	20.39
20-Sep-21	109	62	32	13.78	26.51
21-Sep-21	126	74	37	19.65	32.39
27-Sep-21	156	79	41	12.04	23.81
28-Sep-21	169	84	45	13.55	20.94
29-Sep-21	162	80	42	17.82	32.8
06-Oct-21	149	92	44	15.93	16.41
07-Oct-21	137	95	47	11.6	27.42
11-Oct-21	145	90	49	15.16	27.51
12-Oct-21	138	88	51	13.12	30.25
20-Oct-21	151	78	44	13.42	22.98
21-Oct-21	176	86	49	13.97	26.46
27-Oct-21	181	88	54	12.05	25.44
28-Oct-21	161	83	52	17.09	20.13
05-Nov-21	174	83	47	14.51	19.09
06-Nov-21	171	75	42	16.41	30.93
10-Nov-21	183	86	49	20.52	26.09
11-Nov-21	174	90	51	7.75	29.74
18-Nov-21	173	77	48	8.94	20.37
19-Nov-21	162	81	45	11.01	20.1
26-Nov-21	189	92	54	12.12	24.86
27-Nov-21	174	89	52	10.8	23.36
03-Dec-21	222	91	46	14.14	38.24
04-Dec-21	152	82	47	14.19	23.39
10-Dec-21	134	89	34	16.49	29.96
11-Dec-21	153	88	37	20.61	30.34
20-Dec-21	157	97	32	13.24	26.18
21-Dec-21	194	95	34	16.43	26.49
27-Dec-21	151	96	30	16.03	27.38
28-Dec-21	161	121	35	16.45	21.25
05-Jan-22	163	84	39	16.69	30.54
06-Jan-22	175	76	35	14.95	21.29
12-Jan-22	165	80	38	16.55	28.32
13-Jan-22	180	88	36	13.76	25.74
19-Jan-22	145	82	36	14.64	20
20-Jan-22	166	77	32	17.25	23.94
27-Jan-22	188	93	41	20	26.55
28-Jan-22	156	87	33	18.11	24.39
03-Feb-22	146	66	26	15.96	21.73
04-Feb-22	155	60	28	12.86	18.65
11-Feb-22	145	65	29	16.46	26.46
12-Feb-22	168	74	32	11.22	21.88
16-Feb-22	144	88	36	9.64	20.48

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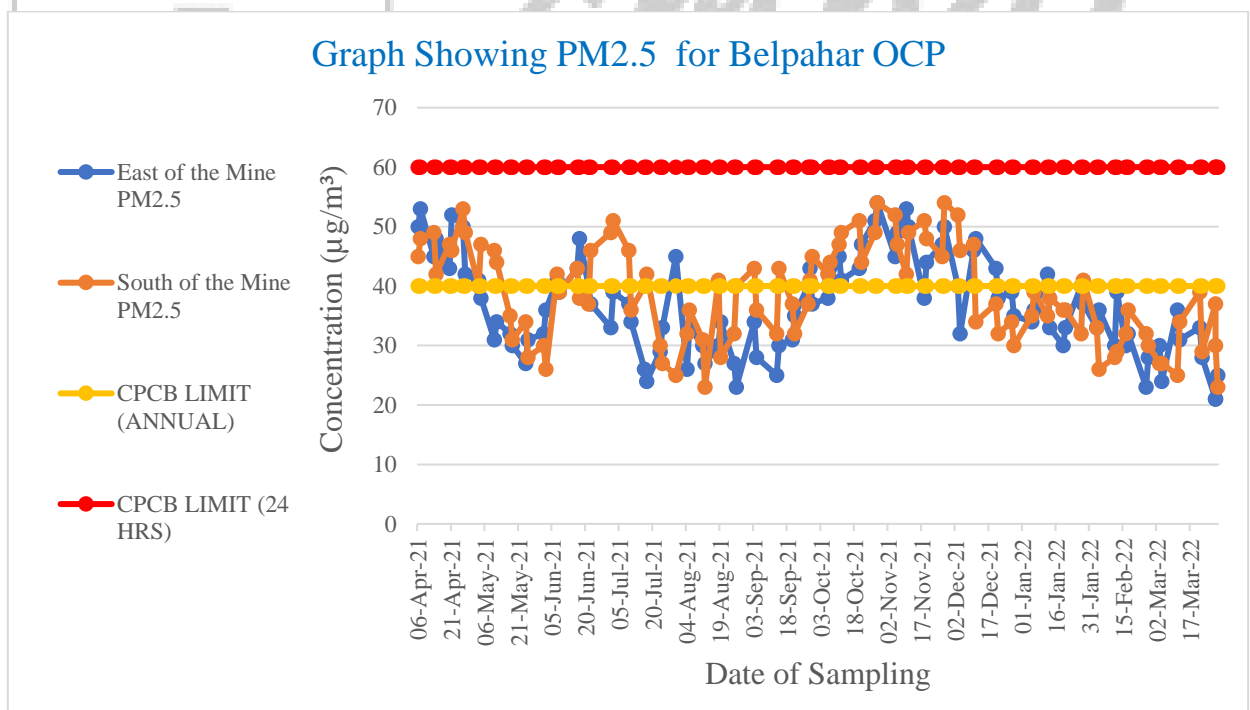
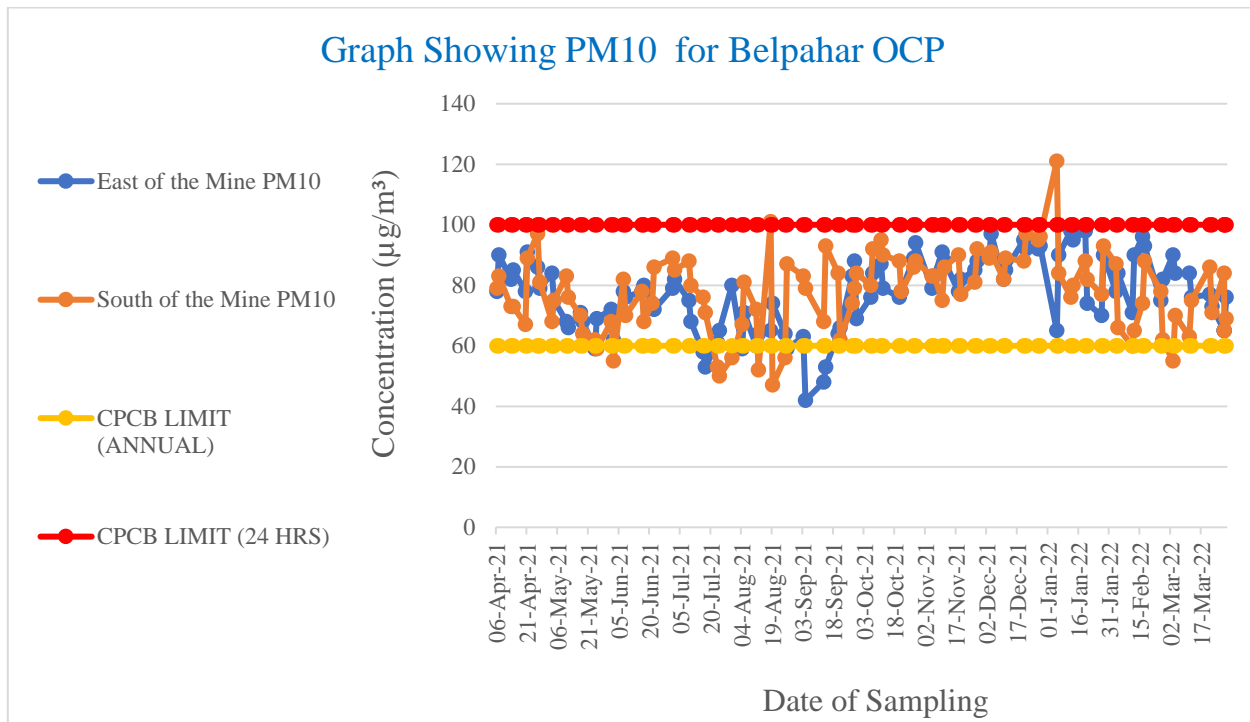
17-Feb-22	136	78	32	9.56	19.2
25-Feb-22	120	62	30	12.98	25.11
26-Feb-22	110	55	27	15.23	28.34
03-Mar-22	132	70	27	15.69	20.97
04-Mar-22	124	63	25	14.57	20.74
11-Mar-22	156	75	34	19.41	24.86
12-Mar-22	168	86	39	20.04	27.28
21-Mar-22	139	71	29	10.03	19.56
22-Mar-22	147	84	37	16.23	24.63
28-Mar-22	140	65	30	14.25	22.38
29-Mar-22	131	69	23	10.36	18.36
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	237	121	54	27.04	53.1
Minimum	86	47	23	7.71	15.23
Average	150.9	77.8	38.7	15.2	27.6
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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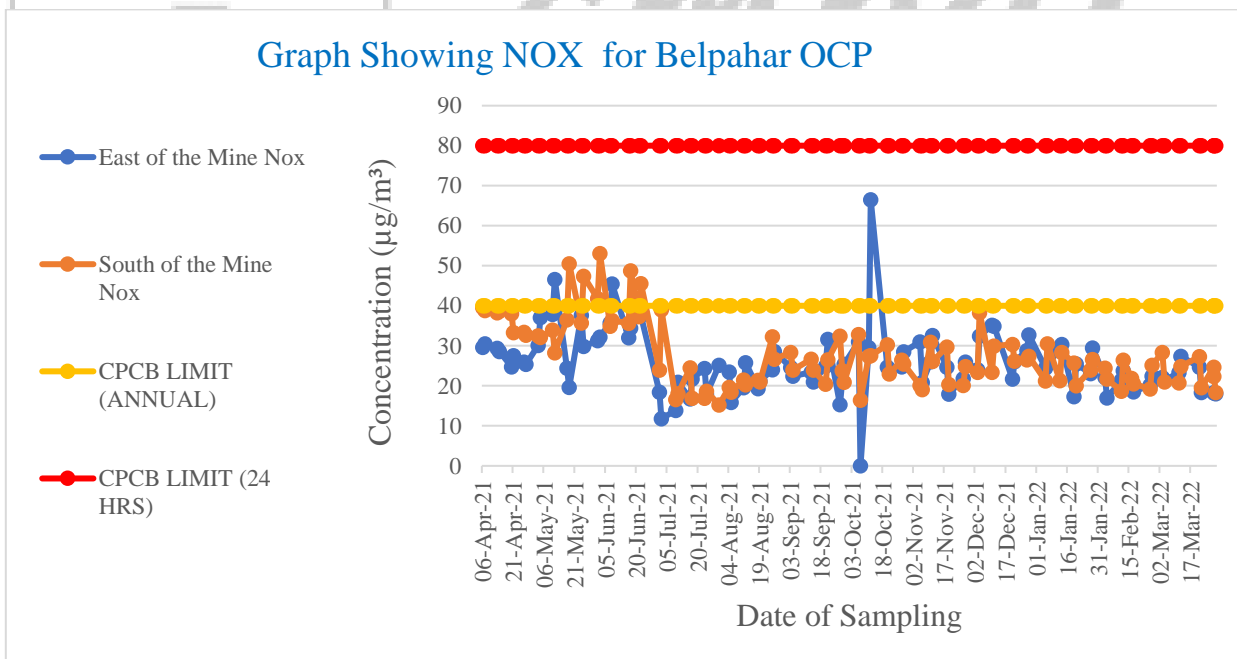
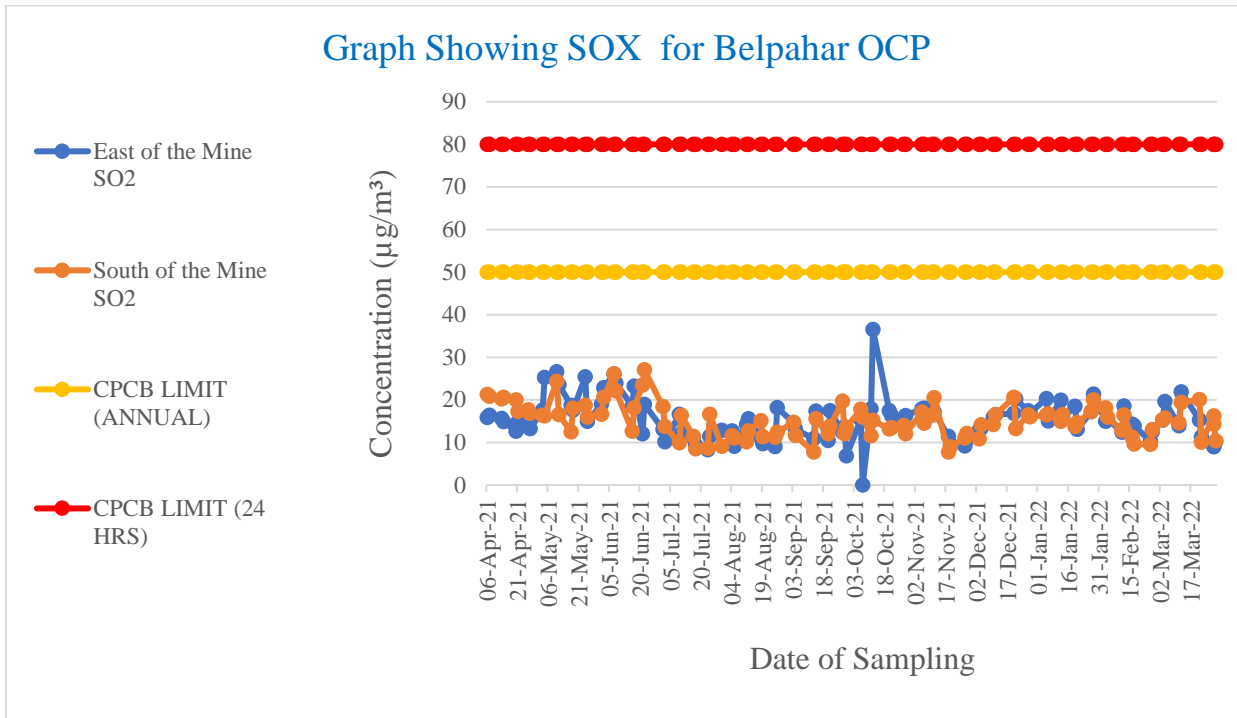
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Table: 7.19

Area: Lakhanpur

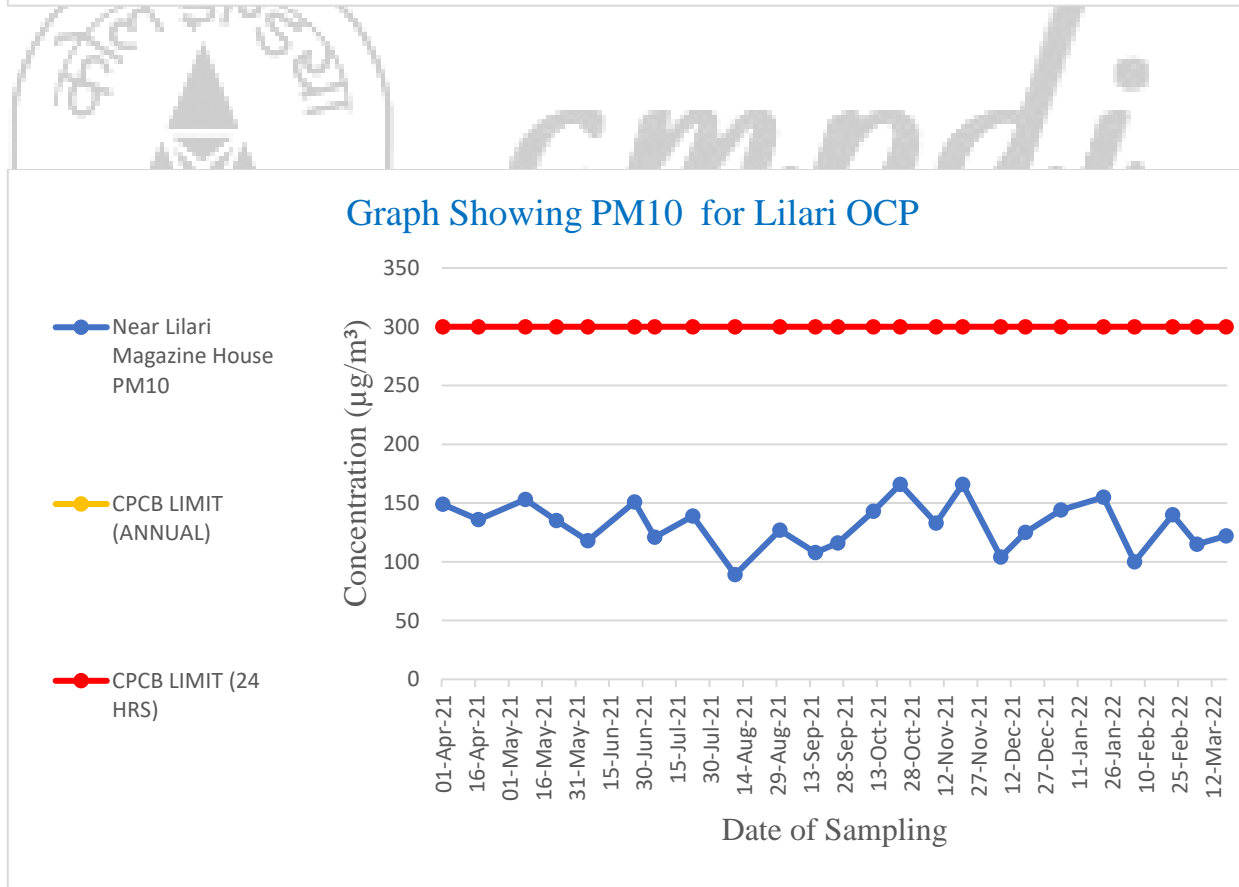
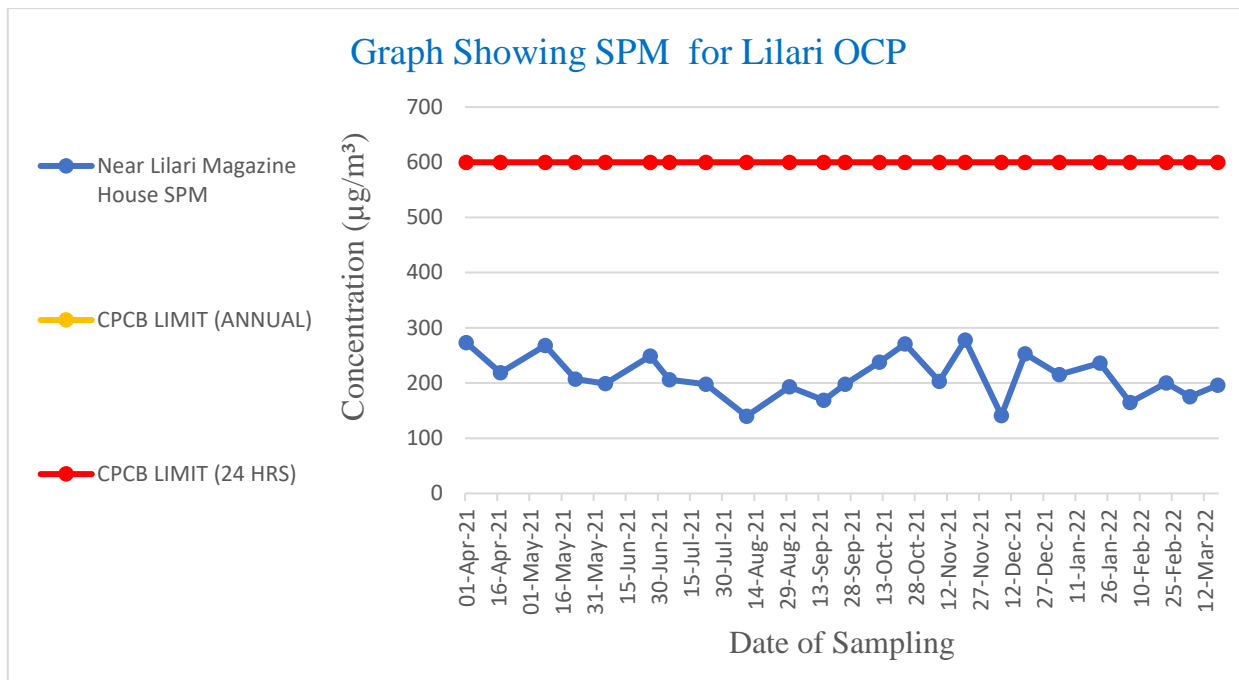
Project: Lilari OCP

Monitoring Station: Near Lilari Magazine House

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Apr-21	273	149	55	13.48	25.64
17-Apr-21	219	136	47	14.46	27.51
08-May-21	268	153	49	21.71	36.61
22-May-21	207	135	36	13.72	37.38
05-Jun-21	199	118	42	21.19	34.34
26-Jun-21	249	151	46	20.08	35.94
05-Jul-21	206	121	43	9.25	15.42
22-Jul-21	198	139	46	14.32	20.87
30-Aug-21	193	127	47	15.85	18.04
15-Sep-21	169	108	32	13.06	24.21
25-Sep-21	198	116	39	12.18	14.26
11-Oct-21	238	143	45	14.86	19.78
23-Oct-21	271	166	54	9.56	25.53
08-Nov-21	203	133	46	16.22	21.84
20-Nov-21	278	166	49	10.59	19.36
07-Dec-21	141	104	40	14.29	28.39
18-Dec-21	253	125	60	16.63	22.98
03-Jan-22	215	144	51	14.53	24.96
22-Jan-22	236	155	55	15.8	21.42
05-Feb-22	165	100	48	12.76	18.97
22-Feb-22	200	140	56	10.36	21.44
05-Mar-22	175	115	40	14.5	18.87
10-Aug-21	140	89	32	12.97	10.47
18-Mar-22	196	122	40	17.03	25.07
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	278	166	60	21.71	37.38
Minimum	140	89	32	9.25	10.47
Average	212.1	131.5	45.8	14.6	23.7
Standard 24 hr	600	300		120	120
Standard Annual				80	80

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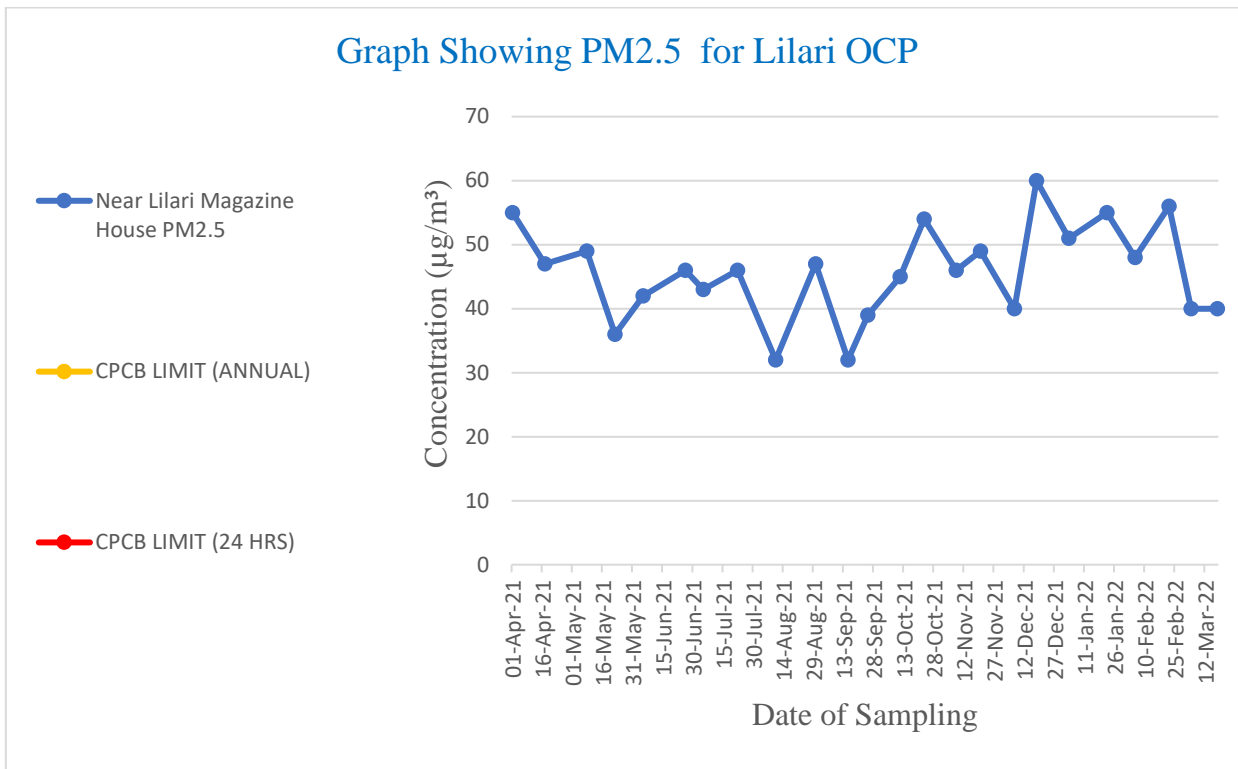
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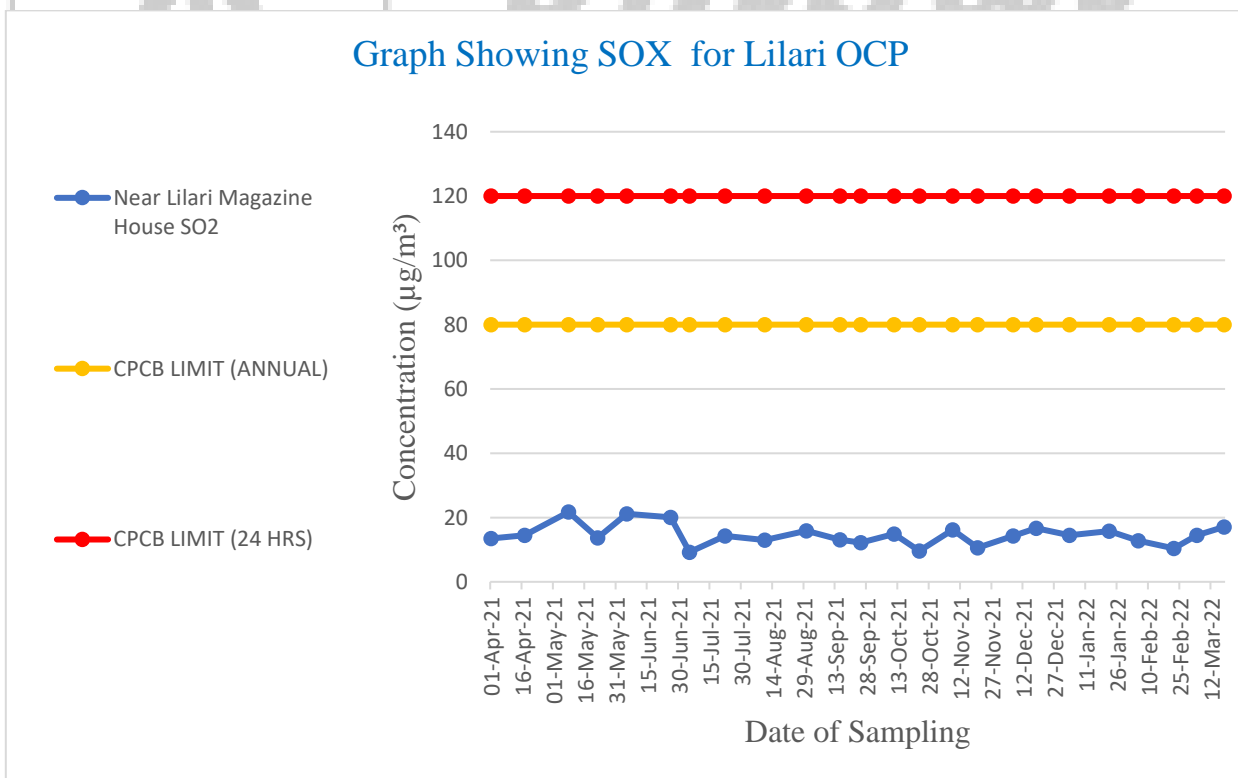
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Graph Showing PM2.5 for Lilari OCP

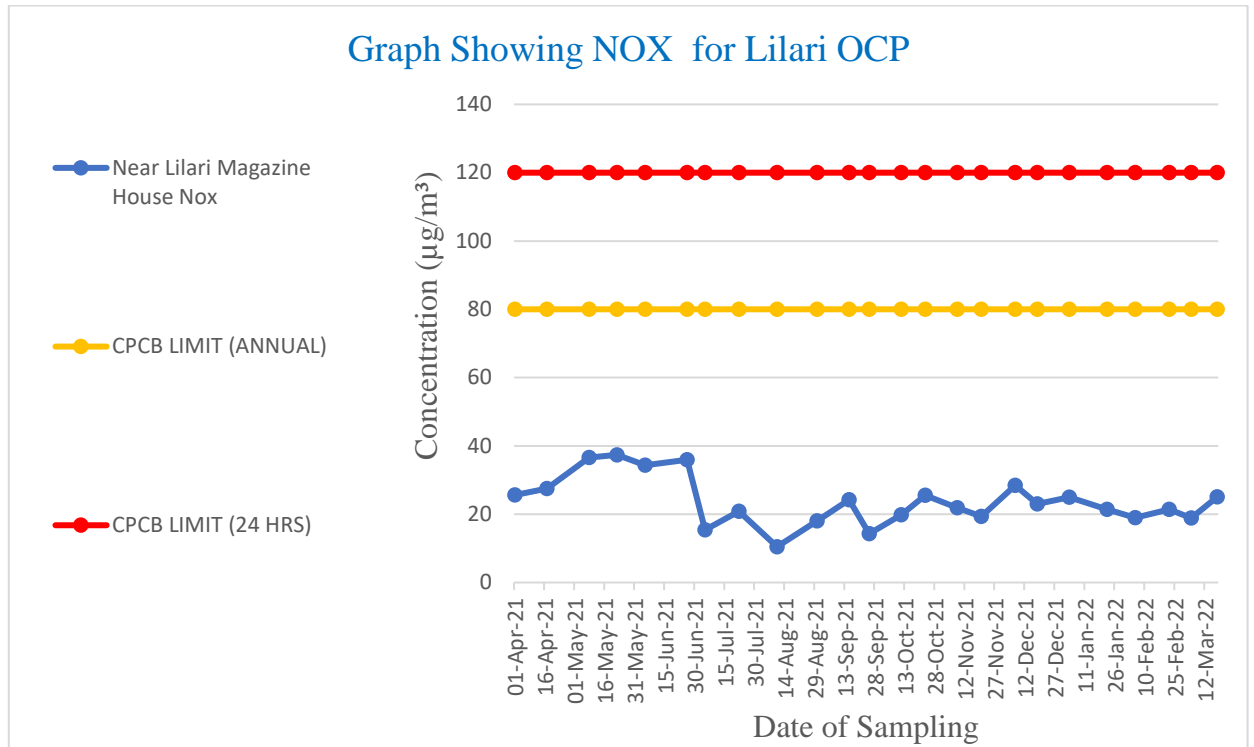


Graph Showing SOX for Lilari OCP



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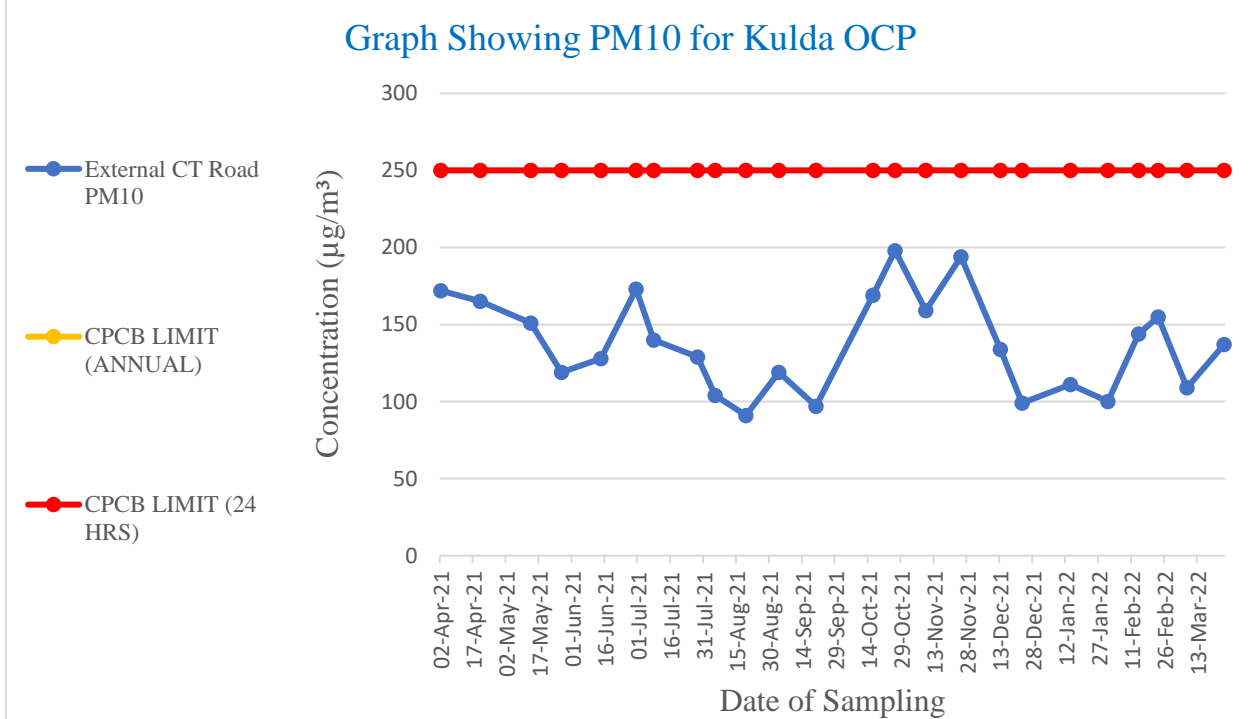
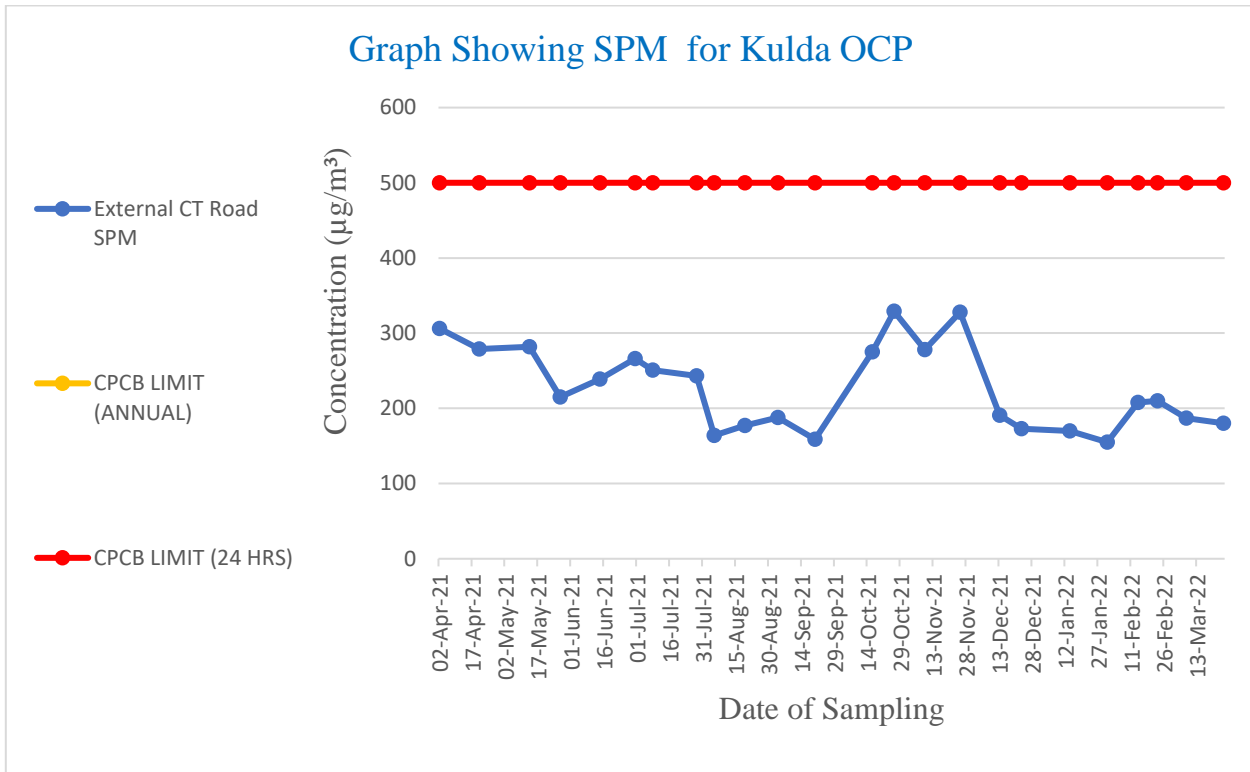
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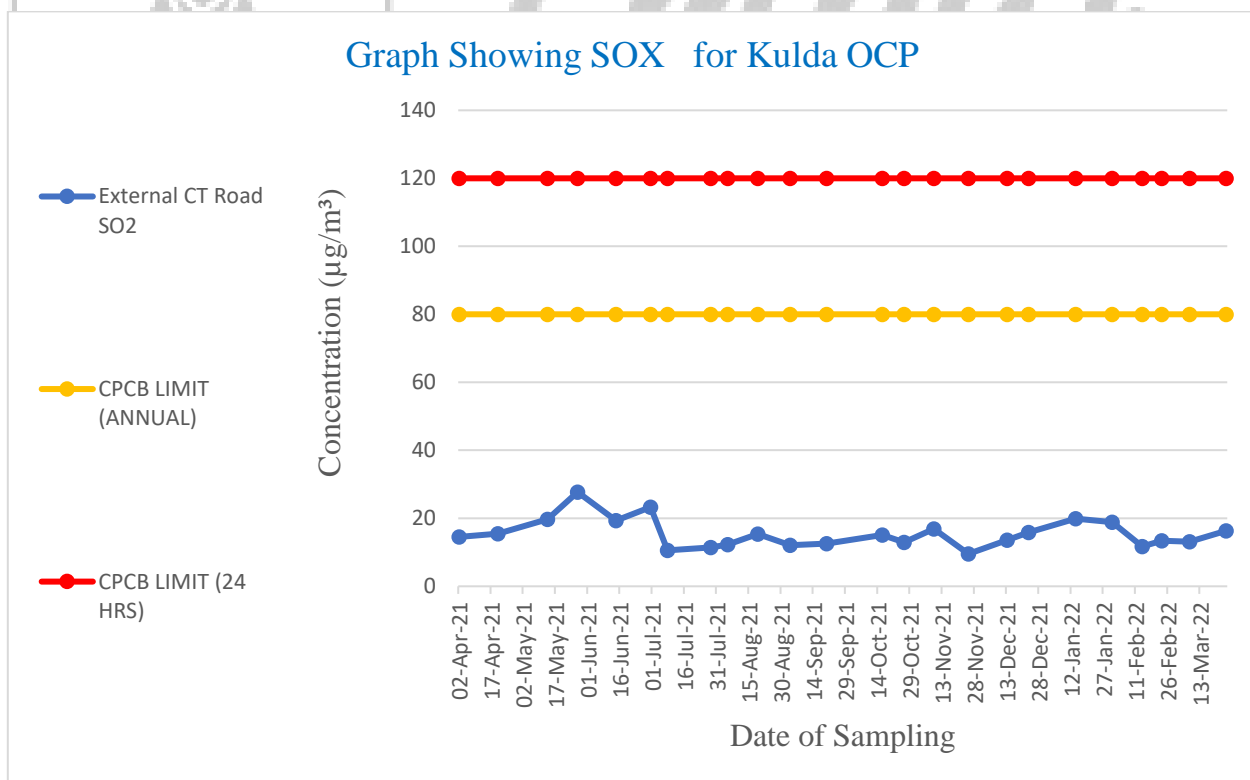
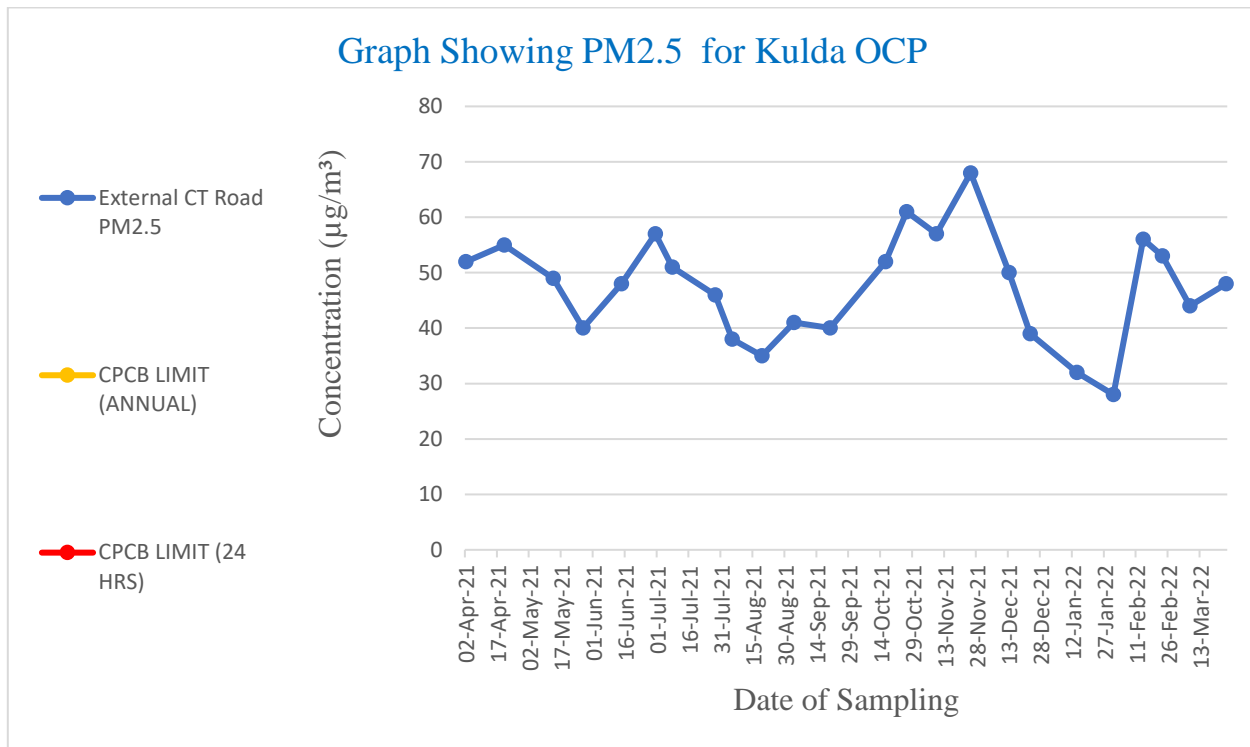
Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** External CT Road

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
02-Apr-21	306	172	52	14.56	27.62
20-Apr-21	279	165	55	15.48	29.71
13-May-21	282	151	49	19.68	35.33
27-May-21	215	119	40	27.71	46.84
14-Jun-21	239	128	48	19.36	33.39
30-Jun-21	266	173	57	23.32	43.87
08-Jul-21	251	140	51	10.55	19.04
28-Jul-21	243	129	46	11.4	19.89
05-Aug-21	164	104	38	12.27	17.97
19-Aug-21	177	91	35	15.37	21.7
03-Sep-21	188	119	41	12.06	20.15
20-Sep-21	159	97	40	12.51	30.07
16-Oct-21	275	169	52	15.07	26.4
26-Oct-21	329	198	61	12.9	27.68
09-Nov-21	278	159	57	16.85	26.71
25-Nov-21	328	194	68	9.53	21.83
13-Dec-21	191	134	50	13.61	24.11
23-Dec-21	173	99	39	15.89	24.15
14-Jan-22	170	111	32	19.92	20.79
31-Jan-22	155	100	28	18.83	28
14-Feb-22	208	144	56	11.68	21.78
23-Feb-22	210	155	53	13.42	34.65
08-Mar-22	187	109	44	13.09	30.29
25-Mar-22	180	137	48	16.32	26.31
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	329	198	68	27.71	46.84
Minimum	155	91	28	9.53	17.97
Average	227.2	137.4	47.5	15.5	27.4
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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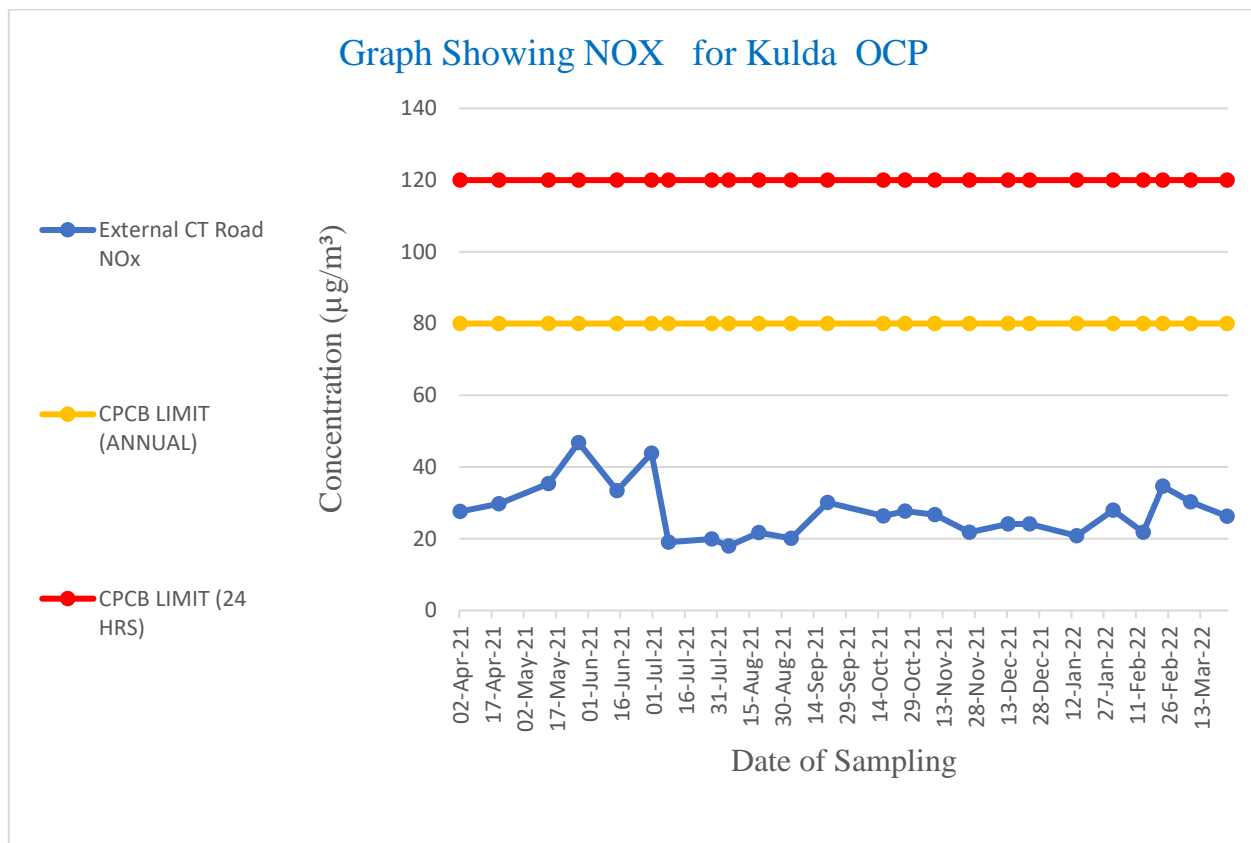
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Table: 7.21

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** North of CHP

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
02-Apr-21	156	81	42	11.59	24.51
03-Apr-21	184	90	47	12.31	25.46
09-Apr-21	196	92	50	12.68	25.73
10-Apr-21	176	87	49	11.84	24.85
16-Apr-21	204	88	48	13.64	25.41
17-Apr-21	222	93	42	13.81	25.62
23-Apr-21	173	81	50	12.82	24.73
24-Apr-21	161	75	44	12.6	24.38
29-Apr-21	169	64	40	12.71	24.52
30-Apr-21	180	85	43	12.47	23.59
05-May-21	139	76	48	13.98	38.87
06-May-21	121	71	44	19.94	33.33
12-May-21	87	55	32	21.15	32.82
13-May-21	113	66	34	23.93	37.64
19-May-21	117	71	38	25.23	48.42
20-May-21	106	63	40	24.07	30.85
26-May-21	113	61	31	19.16	38.77
27-May-21	103	65	26	23.13	44.25
03-Jun-21	102	50	27	13.74	36.72
04-Jun-21	119	58	33	17.69	28.41
09-Jun-21	126	71	41	18.1	27
10-Jun-21	148	80	44	23.96	36.22
16-Jun-21	149	83	46	23.66	39.09
17-Jun-21	158	89	51	22.21	36.56
23-Jun-21	137	79	45	22.38	39.84
24-Jun-21	126	71	42	23.15	33.19
05-Jul-21	161	90	49	15.65	19.74
06-Jul-21	126	86	40	9.89	17.23
12-Jul-21	125	71	34	10.2	24.09
13-Jul-21	106	70	31	11.44	17.47
19-Jul-21	113	75	32	13.65	20.4
20-Jul-21	104	66	29	14.75	14.75
26-Jul-21	129	77	35	10.27	19.45
27-Jul-21	117	70	34	12.56	18.63
02-Aug-21	124	76	36	11.63	16.26
03-Aug-21	106	63	32	8.23	13.69
09-Aug-21	71	49	24	9.74	22.1
10-Aug-21	79	57	29	16.09	21.9
16-Aug-21	70	44	26	9.24	16.9
17-Aug-21	93	57	30	13.87	22.18

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23-Aug-21	122	81	38	12.12	20.16
24-Aug-21	133	70	33	10.14	23.01
01-Sep-21	94	48	23	10.05	20.57
02-Sep-21	105	58	28	9.05	23.98
08-Sep-21	139	75	31	12.75	15.77
09-Sep-21	153	87	34	14.04	17.35
17-Sep-21	110	66	31	15.56	31.15
18-Sep-21	124	75	35	16.97	32.64
20-Sep-21	114	69	35	15.49	21.55
24-Sep-21	149	82	45	13.8	17.96
25-Sep-21	141	86	41	19.04	27.3
04-Oct-21	117	64	33	17.32	19.26
05-Oct-21	129	69	36	17.25	27.89
08-Oct-21	133	76	39	15.55	18.62
09-Oct-21	141	84	43	17.97	25.57
18-Oct-21	101	61	29	18.82	31.1
19-Oct-21	131	74	36	15.55	23.01
25-Oct-21	151	81	45	12.42	22.62
26-Oct-21	169	92	48	16.23	27.38
01-Nov-21	127	77	38	17.99	31.73
02-Nov-21	125	79	42	20.84	28.21
08-Nov-21	147	88	48	14.78	19.45
09-Nov-21	163	93	52	20.97	24.49
16-Nov-21	127	78	44	15.12	20.76
17-Nov-21	116	65	39	16.58	20.85
24-Nov-21	130	75	45	19.06	19.84
25-Nov-21	151	83	48	14.48	25.57
01-Dec-21	132	90	49	20.34	29.73
02-Dec-21	133	92	46	21.42	24.16
08-Dec-21	155	90	48	16.65	29.22
09-Dec-21	130	70	36	21.1	36.62
16-Dec-21	161	92	52	13.3	22.47
17-Dec-21	197	95	48	10.23	25.05
24-Dec-21	153	94	47	13.02	37.56
25-Dec-21	155	92	49	14.62	32.11
03-Jan-22	175	89	35	20.91	34.75
04-Jan-22	170	81	39	22.44	28.27
10-Jan-22	156	93	27	13.68	20.46
11-Jan-22	161	96	31	20.43	25.96
17-Jan-22	191	77	40	19.35	33.85
18-Jan-22	177	95	33	22.67	26.82
24-Jan-22	175	85	30	17.09	18.97
25-Jan-22	188	72	35	18.84	25.54
01-Feb-22	165	94	45	9.96	17.24
02-Feb-22	158	89	40	11.41	15.38
09-Feb-22	140	74	36	10.88	21.07
10-Feb-22	136	78	30	16.54	21.08
18-Feb-22	128	67	27	11.12	28.07

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19-Feb-22	105	64	24	16.8	24.05
25-Feb-22	119	78	33	13.23	23.77
26-Feb-22	132	71	30	15.3	21.84
01-Mar-22	128	88	33	10.79	18.16
02-Mar-22	113	80	30	14.02	18.65
09-Mar-22	102	70	24	13.32	24.82
10-Mar-22	95	59	20	14.91	18.74
16-Mar-22	133	76	22	9.25	16.32
17-Mar-22	115	77	29	13.26	20.21
25-Mar-22	105	68	30	12.38	20.37
26-Mar-22	125	66	22	14.56	25.23
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	222	96	52	25.23	48.42
Minimum	70	44	20	8.23	13.69
Average	135.9	76.1	37.3	15.6	25.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 7.22

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** South of Working Face

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
02-Apr-21	162	80	43	12.34	24.35
03-Apr-21	185	86	49	12.49	24.68
09-Apr-21	193	75	47	13.86	25.47
10-Apr-21	206	90	50	14.52	26.49
16-Apr-21	153	70	46	11.09	21.14
17-Apr-21	131	67	39	11.25	20.46
23-Apr-21	181	87	50	12.94	23.57
24-Apr-21	171	84	49	12.54	23.16
29-Apr-21	185	77	41	12.82	23.42
30-Apr-21	109	53	39	10.17	20.53
05-May-21	149	80	42	13.87	23.52
06-May-21	141	73	37	17.03	31.23
12-May-21	124	69	32	21.28	29.22
13-May-21	108	67	34	14.95	48.96
19-May-21	112	63	36	21	40.52
20-May-21	120	65	31	17.02	38.61
26-May-21	106	60	28	26.29	46.82
27-May-21	93	54	25	17.65	24.73
03-Jun-21	158	73	41	15.48	25.23
04-Jun-21	164	85	49	19.41	34.22
09-Jun-21	152	78	40	21.86	28.85
10-Jun-21	157	80	44	14.15	44.56
16-Jun-21	167	92	52	19.66	30.21
17-Jun-21	157	80	48	23.85	29.33
23-Jun-21	178	90	45	16.42	38.37
24-Jun-21	139	78	49	27.73	39.37
05-Jul-21	132	74	36	11.51	17.58
06-Jul-21	137	65	33	10.41	20.01
12-Jul-21	144	77	37	10.76	19.42
13-Jul-21	119	67	40	16.59	17.93
19-Jul-21	105	69	28	8.52	14.21
20-Jul-21	94	57	21	9.85	20.88
26-Jul-21	114	63	26	12.35	23.72
27-Jul-21	108	69	33	9.68	22.96
02-Aug-21	89	61	29	12.94	22.39
03-Aug-21	96	59	25	11.4	16.68
09-Aug-21	147	77	30	12.7	19.5
10-Aug-21	128	77	40	11.25	20.87
16-Aug-21	120	78	30	12.99	19.45
17-Aug-21	113	71	33	13.65	20.97

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JOB NO.750001

23-Aug-21	151	87	41	13.76	21.26
24-Aug-21	130	80	40	11.57	18.44
01-Sep-21	134	71	35	19.85	20.76
02-Sep-21	151	87	38	11.32	14.53
08-Sep-21	120	69	30	10.34	16.78
09-Sep-21	88	57	26	13.88	20.78
17-Sep-21	95	50	28	9.57	35.5
18-Sep-21	106	65	32	9.88	24.43
24-Sep-21	143	77	39	12.88	31.84
25-Sep-21	159	87	41	11.32	19.25
04-Oct-21	131	84	36	12.79	26.97
05-Oct-21	139	79	39	16.03	23.4
08-Oct-21	147	83	40	20.27	21.36
09-Oct-21	143	88	44	12.75	21.55
18-Oct-21	171	85	47	16.26	30.09
19-Oct-21	142	90	43	14.31	28.27
25-Oct-21	159	84	46	14.05	22.86
26-Oct-21	174	91	51	13.03	27.02
01-Nov-21	149	66	39	16.96	28.75
02-Nov-21	143	77	44	17.66	23.77
08-Nov-21	165	81	48	17.91	25.32
09-Nov-21	160	86	51	18.05	34.54
16-Nov-21	181	77	47	17.22	20.37
17-Nov-21	169	82	50	20.32	29.58
24-Nov-21	174	91	54	14.77	20.76
25-Nov-21	151	88	52	16.56	26.9
01-Dec-21	122	95	46	12.69	26.22
02-Dec-21	141	97	49	18.82	29.18
08-Dec-21	127	93	42	20.12	29.45
09-Dec-21	148	97	46	15.5	32.04
16-Dec-21	151	99	41	17.48	29.21
17-Dec-21	154	96	45	21.99	29.71
24-Dec-21	185	94	52	17.59	32.19
25-Dec-21	160	90	51	13.47	26.26
03-Jan-22	172	90	36	15.91	20.31
04-Jan-22	160	70	40	17.93	29.26
10-Jan-22	166	95	32	14.36	26.51
11-Jan-22	155	90	30	20.78	22.95
17-Jan-22	135	84	28	16.34	30.36
18-Jan-22	166	86	32	20.51	35.1
24-Jan-22	170	91	36	20.22	25.16
25-Jan-22	175	81	39	18.84	32.64
01-Feb-22	155	88	30	20.62	19.79
02-Feb-22	132	76	28	14.34	22.78
09-Feb-22	128	66	24	21.3	20.96
10-Feb-22	109	60	20	13.17	26.64
18-Feb-22	141	80	38	14.33	27.28
19-Feb-22	130	76	40	15.58	28.76

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25-Feb-22	148	84	44	15.6	29.19
26-Feb-22	130	72	39	10.69	26.9
01-Mar-22	96	59	26	24.7	23.58
02-Mar-22	107	66	30	15.04	23.2
09-Mar-22	100	58	28	20.6	20.2
10-Mar-22	92	55	25	15.87	30.74
16-Mar-22	129	71	29	10.78	18.23
17-Mar-22	143	80	34	11.23	20.1
25-Mar-22	128	73	30	12.36	20.87
26-Mar-22	139	79	35	11.23	20.14
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	206	99	54	27.73	48.96
Minimum	88	50	20	8.52	14.21
Average	141.0	77.3	38.3	15.4	25.9
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 7.23

Area: Basundhara**Project:** Kulda OCP**Monitoring Station:** West of Working Face

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
02-Apr-21	149	72	43	12.37	25.16
03-Apr-21	154	67	37	12.64	25.37
09-Apr-21	189	85	48	13.48	27.53
10-Apr-21	194	82	47	13.72	27.81
16-Apr-21	119	61	37	10.37	20.46
17-Apr-21	142	75	47	10.5	20.81
23-Apr-21	155	92	51	11.07	21.38
24-Apr-21	176	85	45	11.68	21.73
29-Apr-21	153	82	49	11.24	21.62
30-Apr-21	165	80	44	11.79	21.49
05-May-21	172	82	43	18.47	30.9
06-May-21	149	75	41	17.57	34.7
12-May-21	123	69	33	21.76	45.24
13-May-21	125	67	36	21.37	23.95
19-May-21	112	73	40	18.51	29.58
20-May-21	105	66	34	18.08	30.89
26-May-21	99	61	30	15.47	29.22
27-May-21	92	55	26	16.28	27.11
03-Jun-21	86	53	24	19.6	31.53
04-Jun-21	106	65	27	16.1	30.57
09-Jun-21	127	71	37	19.19	38.34
10-Jun-21	135	80	40	21.64	23.31
16-Jun-21	146	85	48	22.61	33.91
17-Jun-21	132	91	50	18.98	31.94
23-Jun-21	123	78	41	23.63	28.79
24-Jun-21	138	83	44	24.48	32.96
05-Jul-21	137	77	42	11.36	19.63
06-Jul-21	112	56	37	9.89	17.98
12-Jul-21	80	50	29	9.6	20.81
13-Jul-21	102	58	26	14.09	17.79
19-Jul-21	94	72	28	10.32	19.44
20-Jul-21	124	87	35	11.74	17.93
26-Jul-21	111	69	31	13.56	21.36
27-Jul-21	103	61	27	11.25	25.66
02-Aug-21	137	87	35	13.32	18.34
03-Aug-21	125	69	32	8.99	18.52
09-Aug-21	109	65	28	14.67	15.26
10-Aug-21	93	56	22	11.92	21.36
16-Aug-21	93	55	25	11.42	25.9
17-Aug-21	98	49	29	9.66	22.49

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23-Aug-21	101	69	34	11.29	18.79
24-Aug-21	111	72	33	13.49	17.03
01-Sep-21	80	44	23	13.23	14.36
02-Sep-21	89	51	26	11.69	21.68
08-Sep-21	127	77	36	15.16	21.66
09-Sep-21	118	69	33	15.95	20.93
17-Sep-21	99	53	26	11.19	24.81
18-Sep-21	110	66	28	19.1	27.24
24-Sep-21	114	67	33	17.14	23.54
25-Sep-21	129	79	37	16.56	31.75
04-Oct-21	122	67	32	14.81	27.35
05-Oct-21	139	74	37	16.81	23.27
08-Oct-21	146	84	40	19.11	28.13
09-Oct-21	144	89	45	17.8	30.29
18-Oct-21	146	74	39	17.67	31.06
19-Oct-21	148	87	44	19.09	26.76
25-Oct-21	164	83	47	19.73	30.39
26-Oct-21	161	90	49	10.8	29.5
01-Nov-21	126	75	38	16.4	23.06
02-Nov-21	149	87	44	14.2	27.26
08-Nov-21	151	82	48	10.41	30.93
09-Nov-21	169	89	49	11.74	32.37
16-Nov-21	151	74	41	12.36	22.59
17-Nov-21	149	69	43	10.06	17.8
24-Nov-21	178	87	47	11.7	25.51
25-Nov-21	165	89	51	12.77	22.94
01-Dec-21	91	76	35	16.96	20.7
02-Dec-21	113	90	33	14.61	26.76
08-Dec-21	122	91	37	17.62	34.23
09-Dec-21	130	96	39	21.94	40.31
16-Dec-21	192	93	35	31.6	37.37
17-Dec-21	228	93	38	21.68	36.02
24-Dec-21	166	92	52	17.3	25.29
25-Dec-21	141	95	47	17.38	19.21
03-Jan-22	155	96	35	21.32	23.93
04-Jan-22	165	92	40	15.75	29.95
10-Jan-22	142	73	34	22.73	33.36
11-Jan-22	156	86	34	17.53	23.98
17-Jan-22	145	88	31	18.89	26.92
18-Jan-22	152	90	33	13.99	22.44
24-Jan-22	165	93	37	18.49	20.52
25-Jan-22	140	96	30	20.24	24.74
01-Feb-22	146	80	40	16.33	21.19
02-Feb-22	132	74	36	15.99	17.51
09-Feb-22	140	70	44	12.52	26.95
10-Feb-22	144	79	38	15.47	21.8
18-Feb-22	142	74	26	13.05	21.83
19-Feb-22	133	82	29	15.88	21.73

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25-Feb-22	166	90	33	11.9	24.75
26-Feb-22	125	75	23	13.75	23.96
01-Mar-22	96	56	22	16.7	30.76
02-Mar-22	109	64	28	18.63	27.04
09-Mar-22	105	59	27	13.72	28.22
10-Mar-22	122	68	32	17.14	23.62
16-Mar-22	130	71	22	11.26	20.91
17-Mar-22	126	77	26	14.23	20.3
25-Mar-22	149	82	30	15.23	22.32
26-Mar-22	115	65	21	9.15	16.32
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	228	96	52	31.6	45.24
Minimum	80	44	21	8.99	14.36
Average	133.2	75.5	36.1	15.4	25.4
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

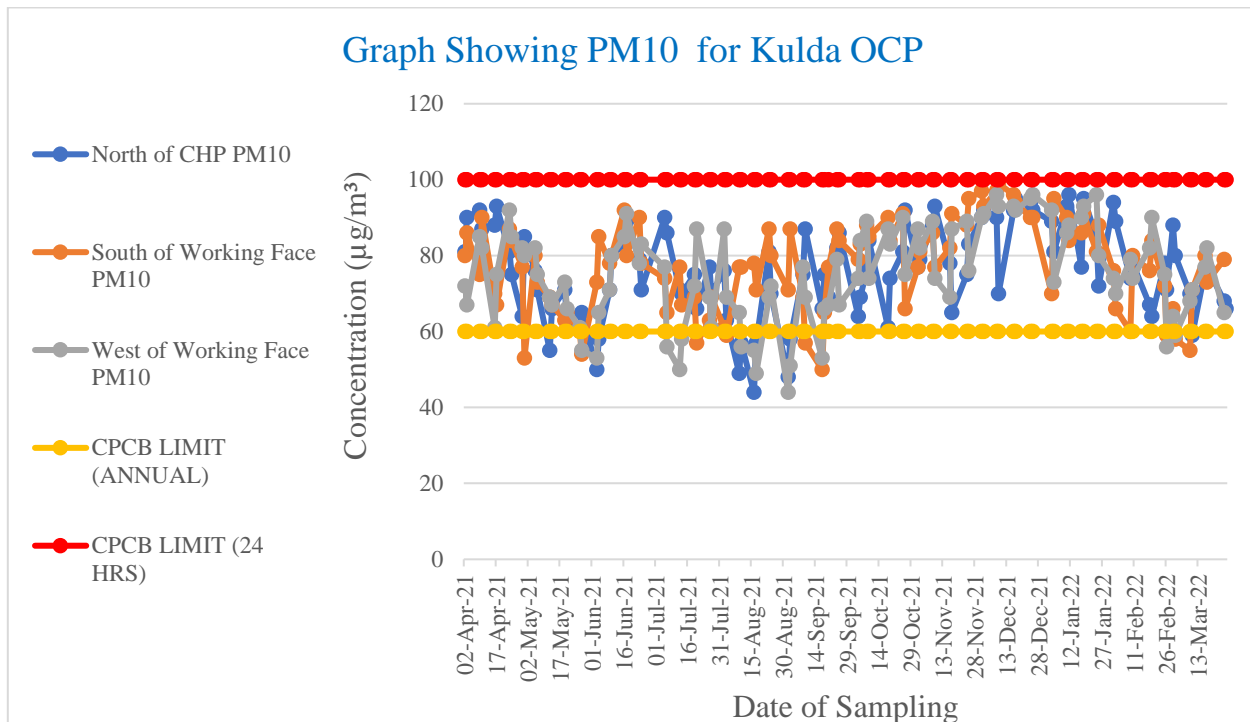


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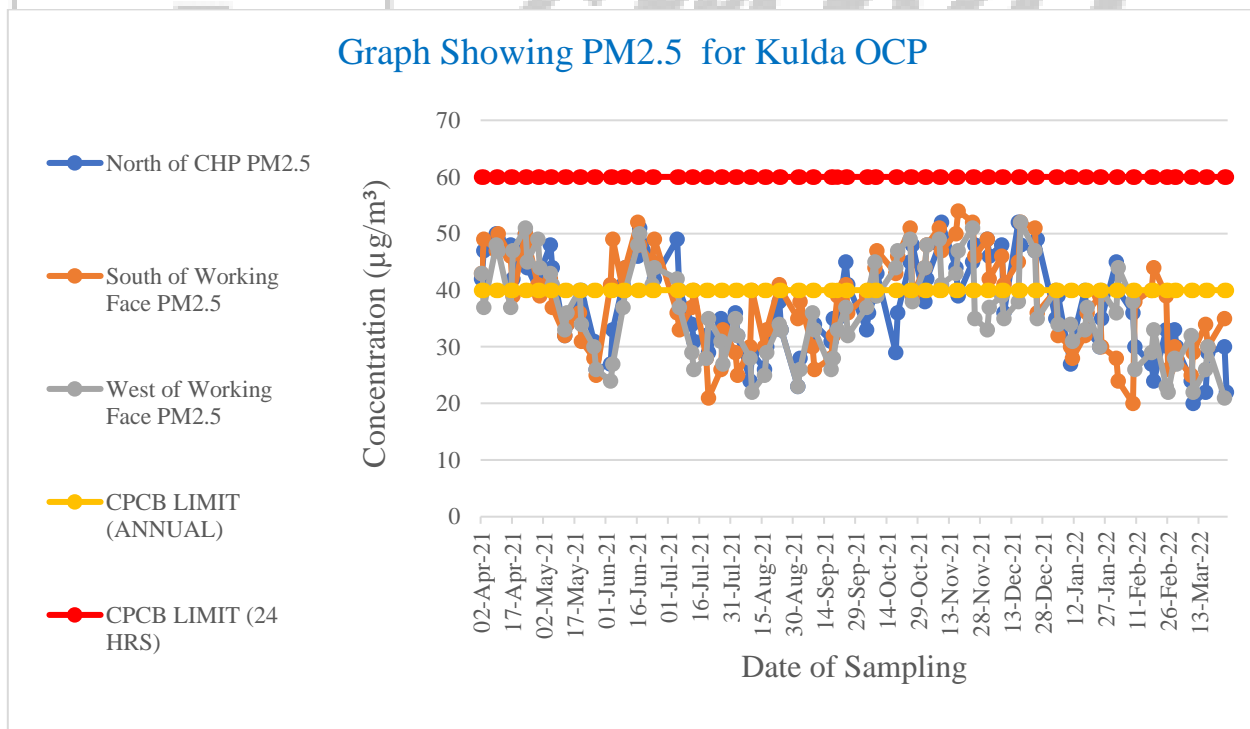
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Graph Showing PM10 for Kulda OCP

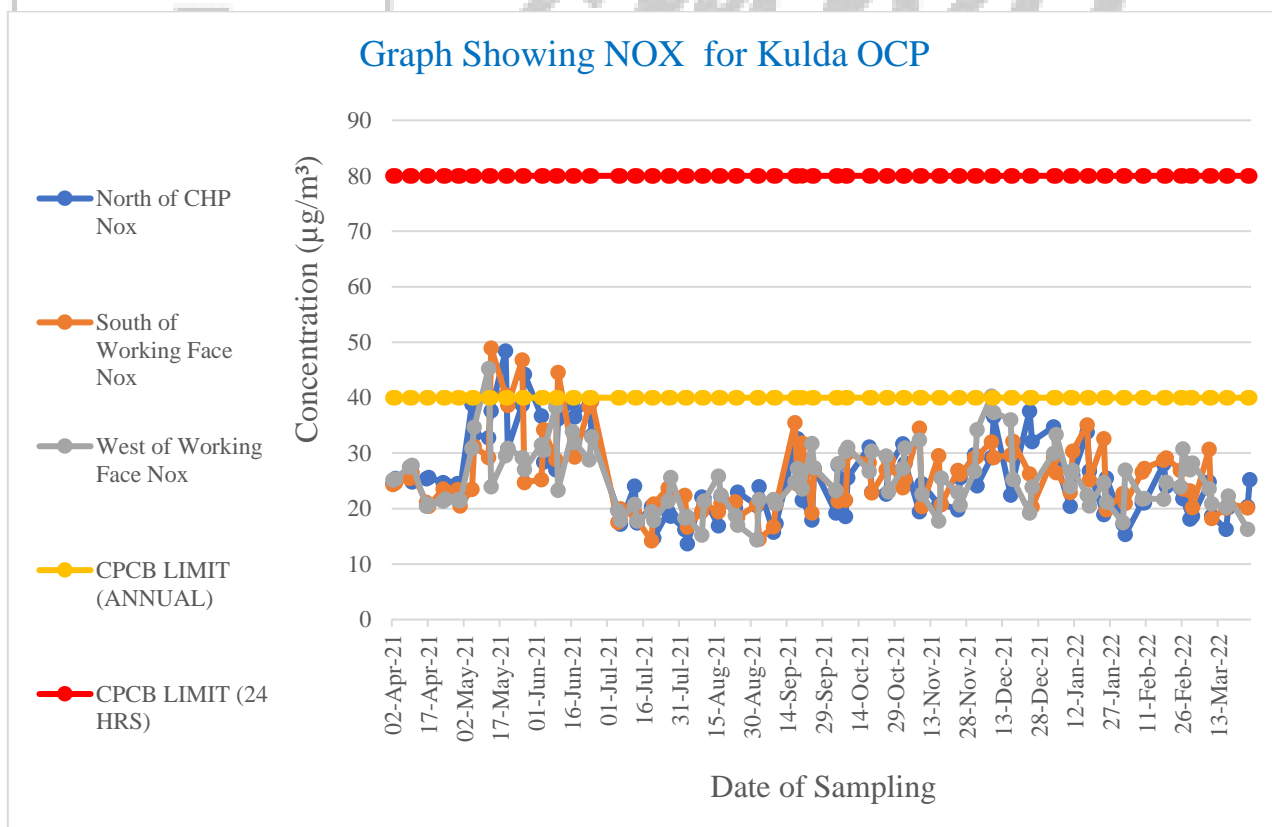
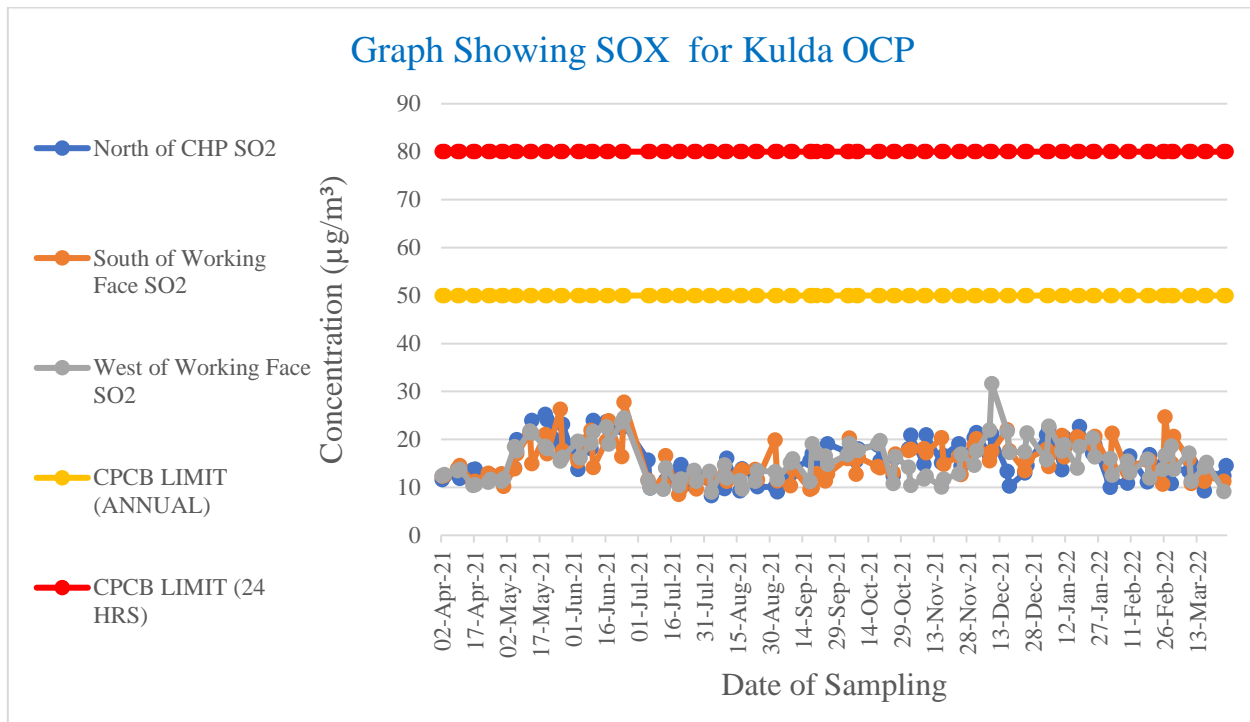


Graph Showing PM2.5 for Kulda OCP



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Table: 7.24

Area: Basundhara

Project: Garjanbahal OCP

Monitoring Station: 220 KV Substation

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-21	344	204	53	12.51	23.87
22-Apr-21	281	143	51	16.26	31.29
15-May-21	215	119	40	23.63	29.74
29-May-21	169	95	30	17.58	23.09
14-Jun-21	212	127	43	23.32	28.21
30-Jun-21	185	110	40	15.37	34.28
15-Jul-21	149	86	37	12.17	14.2
28-Jul-21	189	105	41	8.12	22.42
06-Aug-21	82	45	27	8.67	13.12
20-Aug-21	92	54	24	10.38	16.04
03-Sep-21	86	55	29	13.91	13.75
20-Sep-21	185	103	43	13.85	27.39
16-Oct-21	248	157	47	17.27	28.06
28-Oct-21	283	171	55	17.08	29.25
13-Nov-21	194	121	38	14.02	22.99
23-Nov-21	239	167	49	12.33	20.9
13-Dec-21	182	135	34	15.22	24.78
24-Dec-21	283	152	48	13.53	22.14
14-Jan-22	145	93	36	18.17	26.06
31-Jan-22	220	132	55	13.44	22.01
15-Feb-22	188	120	48	9.12	20.86
23-Feb-22	208	132	47	8.17	19.93
09-Mar-22	179	120	50	9.5	20.69
25-Mar-22	220	144	53	16.36	18.96
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	344	204	55	23.63	34.28
Minimum	82	45	24	8.12	13.12
Average	199.1	120.4	42.4	14.2	23.1
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.25

Area: Basundhara

Project: Garjanbahal OCP

Monitoring Station: Near Coal Sampling Lab

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-21	189	88	47	13.37	24.62
30-Apr-21	180	85	43	12.47	23.59
15-May-21	196	103	38	18.37	27.01
29-May-21	159	85	30	15.29	23.12
14-Jun-21	143	86	31	18.17	25.69
30-Jun-21	178	108	39	17.47	26.27
15-Jul-21	132	84	35	15.83	16.4
29-Jul-21	155	98	39	12.89	16.36
06-Aug-21	90	49	24	12.68	25.46
20-Aug-21	140	82	31	12.19	20.28
04-Sep-21	88	45	25	15.42	13.73
21-Sep-21	189	125	39	11.51	18.46
16-Oct-21	244	151	45	14.47	21.89
28-Oct-21	244	177	49	14.66	22.17
05-Nov-21	297	185	55	17.51	22.32
23-Nov-21	317	206	58	9.95	20.41
14-Dec-21	173	124	52	17.73	29
25-Dec-21	184	93	53	21.6	29.71
15-Jan-22	175	108	50	18.26	25.31
31-Jan-22	233	145	59	16.45	20.46
15-Feb-22	174	105	40	15.21	21.96
23-Feb-22	188	126	40	8.45	16.48
10-Mar-22	180	128	54	16.06	22.58
26-Mar-22	175	137	44	15.26	22.36
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	317	206	59	21.6	29.71
Minimum	88	45	24	8.45	13.73
Average	184.3	113.5	42.5	15.1	22.3
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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JOB NO.750001

Table: 7.26

Area: Basundhara

Project: Garjanbahal OCP

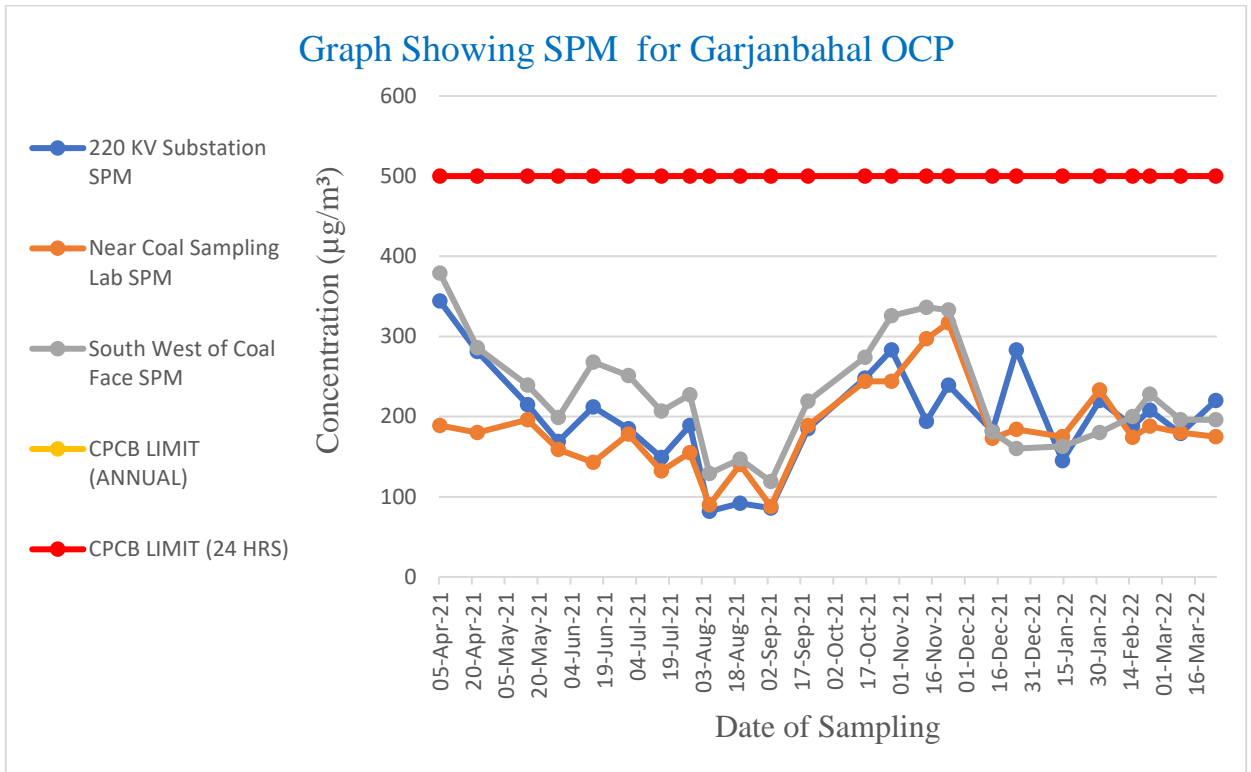
Monitoring Station: South West of Coal Face

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-21	379	193	61	13.72	26.41
30-Apr-21	286	161	54	16.42	31.57
15-May-21	239	134	43	20.77	21.55
29-May-21	199	107	36	22.29	34.52
14-Jun-21	268	139	51	24.29	24.22
30-Jun-21	251	157	49	18.81	41.28
07-Jul-21	207	118	40	14.82	20.21
29-Jul-21	227	131	37	10.88	20.25
06-Aug-21	129	67	32	11.04	18.37
20-Aug-21	147	85	36	11.46	19.07
04-Sep-21	119	71	34	12.27	12.78
21-Sep-21	219	144	44	17.13	25.59
16-Oct-21	274	169	52	15.23	21.45
28-Oct-21	326	194	56	15.25	23.06
13-Nov-21	336	204	66	14.63	26.46
23-Nov-21	333	198	61	11.82	27.59
14-Dec-21	181	129	62	17.11	23.08
24-Dec-21	160	123	52	14.98	27.01
15-Jan-22	163	98	45	21.31	26.89
31-Jan-22	180	112	40	18.75	29.32
15-Feb-22	200	129	55	14.13	26.39
23-Feb-22	228	144	53	10.89	22.76
09-Mar-22	196	133	58	16.89	30.31
26-Mar-22	196	122	40	11.23	20.39
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	379	204	66	24.29	41.28
Minimum	119	67	32	10.88	12.78
Average	226.8	135.9	48.2	15.7	25.0
Standard 24 hr	500	250		120	120
Standard Annual				80	80

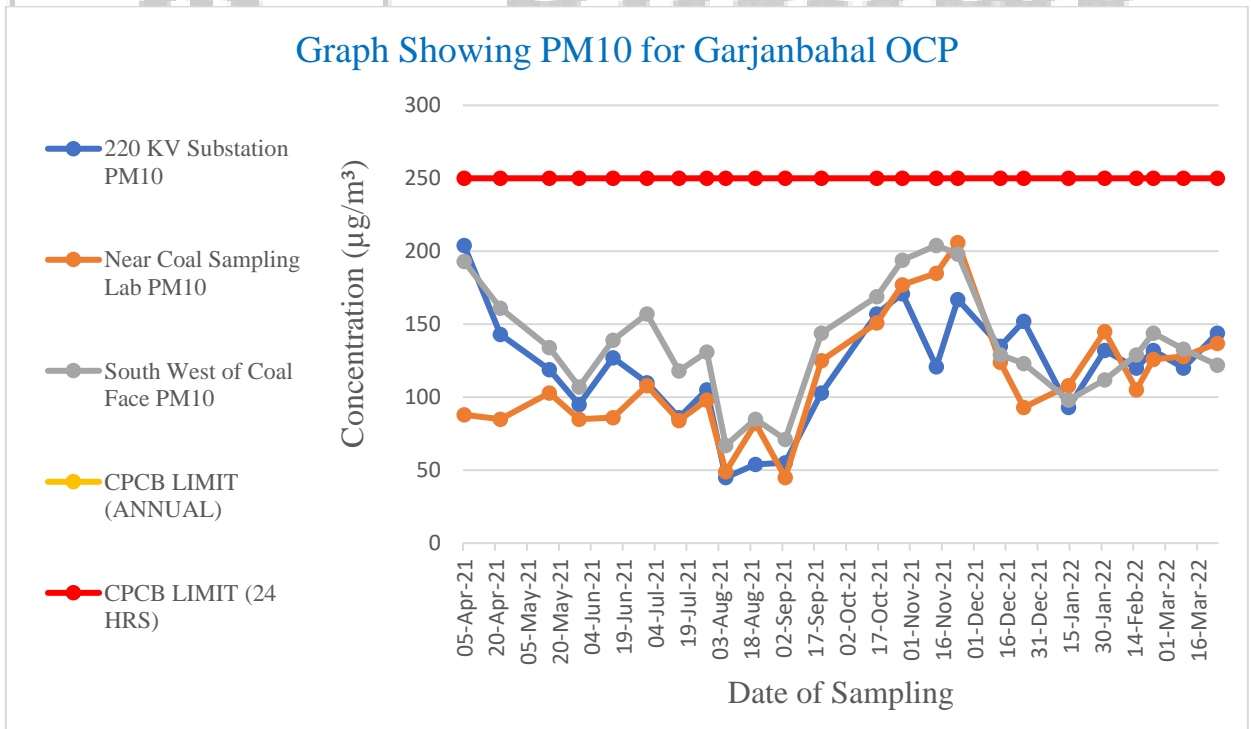
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Graph Showing SPM for Garjanbahal OCP



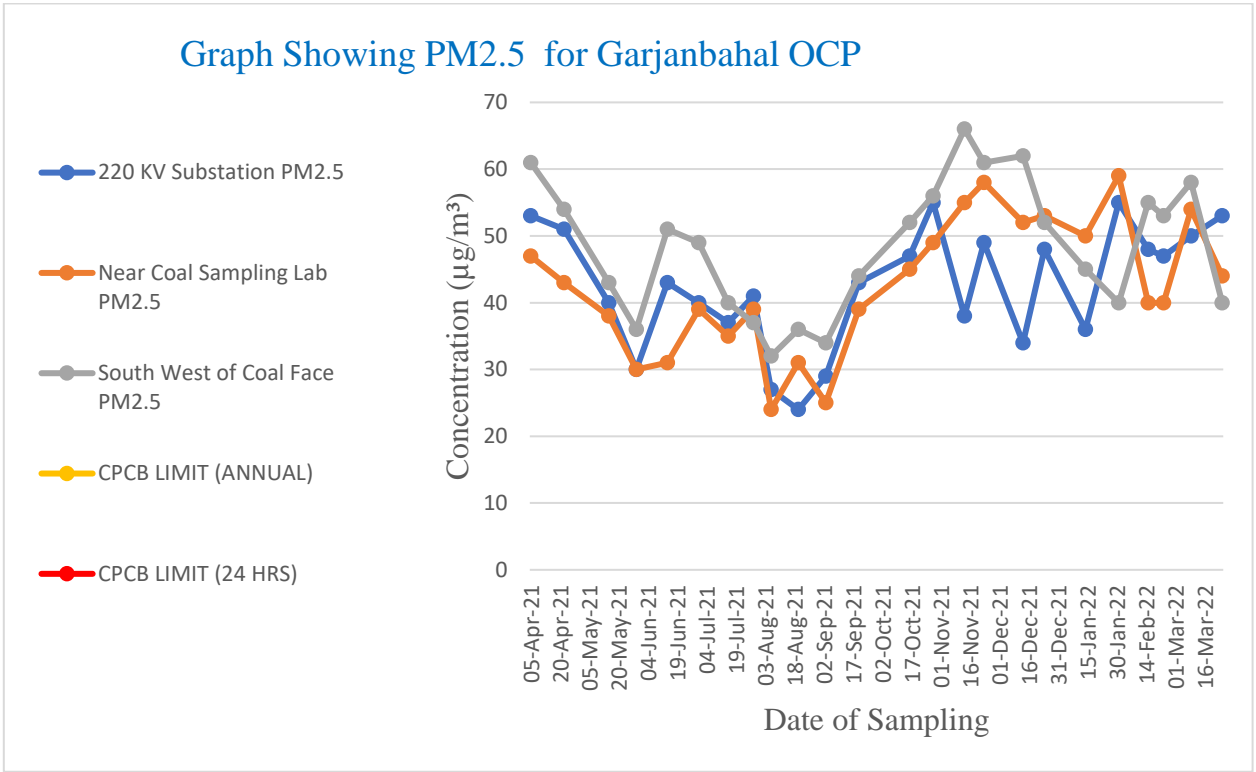
Graph Showing PM10 for Garjanbahal OCP



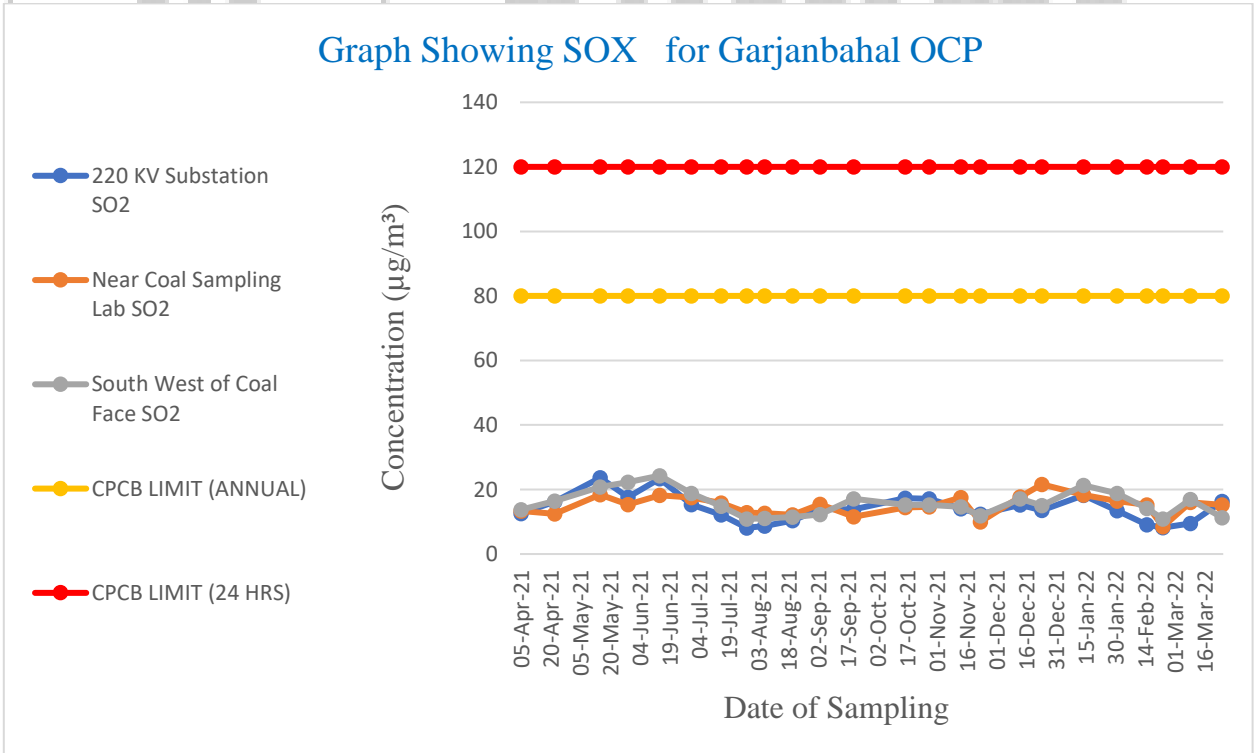
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Graph Showing PM2.5 for Garjanbahal OCP

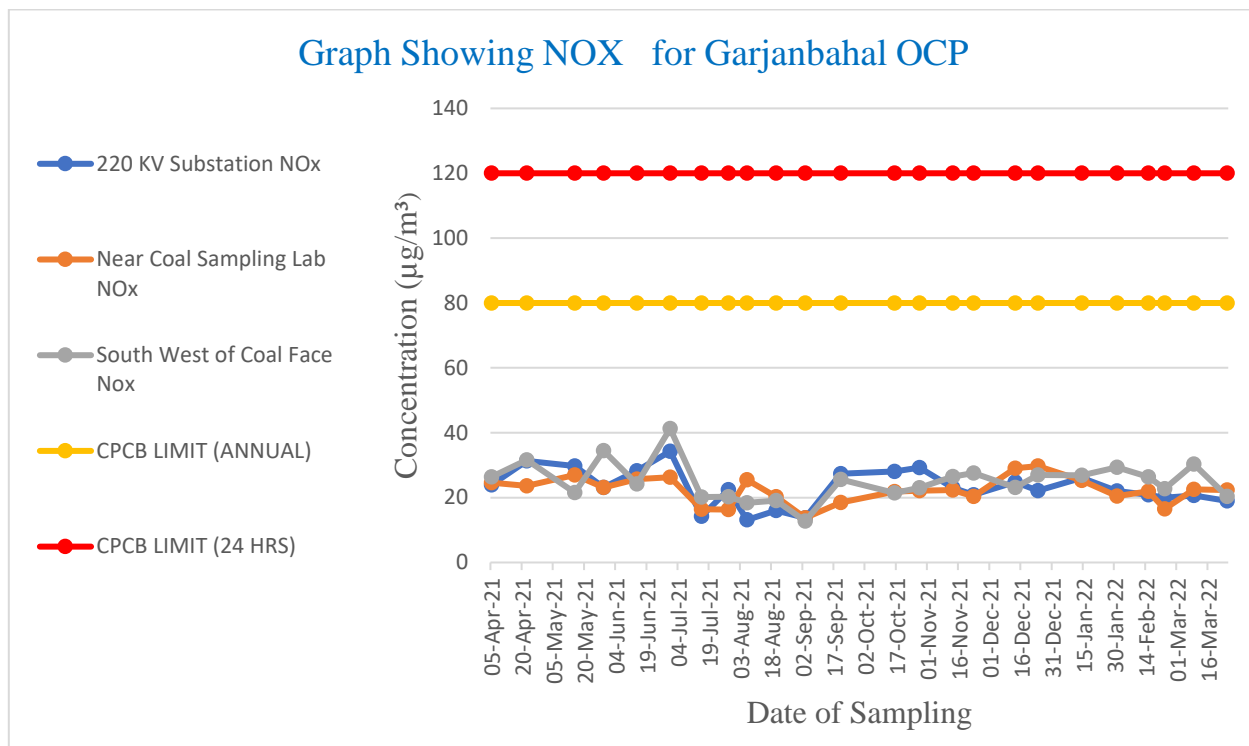


Graph Showing SOX for Garjanbahal OCP



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Table: 7.27

Area: Basundhara

Project: Garjanbahal OCP

Monitoring Station: Kaletpani Village

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-21	208	77	42	11.89	23.46
06-Apr-21	237	88	48	12.68	24.19
12-Apr-21	223	92	53	12.27	23.85
13-Apr-21	231	87	50	13.49	25.64
19-Apr-21	146	80	45	10.82	20.46
20-Apr-21	170	86	48	11.68	21.75
07-May-21	111	67	40	13.88	32.89
08-May-21	118	76	38	13.67	30.98
14-May-21	109	69	32	17.32	42.3
15-May-21	119	72	35	22.44	38.46
21-May-21	109	72	38	24.58	25.4
22-May-21	99	68	33	18.84	31.56
28-May-21	90	51	23	23.45	46.73
29-May-21	101	61	27	18.08	28.32
04-Jun-21	146	77	32	16.34	46.11
05-Jun-21	149	74	27	15.5	39.91
11-Jun-21	158	88	37	17.49	40.38
12-Jun-21	166	91	36	21.51	49.29
18-Jun-21	139	80	48	25.77	33.25
19-Jun-21	125	71	44	27.37	35.66
25-Jun-21	134	75	38	22.24	31.08
26-Jun-21	117	69	36	26.45	40.67
07-Jul-21	103	61	31	16.4	25.93
08-Jul-21	119	73	35	12.53	23.12
14-Jul-21	107	60	23	10.51	29.44
15-Jul-21	126	68	27	11.05	23.37
21-Jul-21	131	77	37	17.8	29.67
22-Jul-21	124	83	40	12.2	24.57
28-Jul-21	117	72	33	9.81	31.16
29-Jul-21	115	67	29	12	28.18
02-Aug-21	109	76	34	11.57	17.64
03-Aug-21	93	66	30	9.22	23.78
09-Aug-21	97	59	25	10.37	26.73
10-Aug-21	110	69	29	11.32	14.53
16-Aug-21	114	63	29	10.61	18.39
17-Aug-21	97	53	23	10.08	17.54
23-Aug-21	128	70	38	13.53	25.97
24-Aug-21	137	75	34	12.49	25.1
01-Sep-21	80	44	24	13.56	21.08
02-Sep-21	89	58	26	14.22	15.33

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08-Sep-21	108	69	30	13.71	20.99
09-Sep-21	121	87	34	17.89	20.76
17-Sep-21	112	64	30	16.81	23.98
18-Sep-21	129	73	34	9.54	27.8
24-Sep-21	159	91	42	11.11	28.42
25-Sep-21	140	87	45	12.18	27.29
04-Oct-21	94	60	33	15.54	24.66
05-Oct-21	83	58	30	13.02	25.55
08-Oct-21	123	79	40	16.44	32.53
09-Oct-21	139	85	43	13.8	25.69
18-Oct-21	119	73	34	15.43	24.5
19-Oct-21	133	81	37	12.49	24.5
25-Oct-21	141	82	41	11.91	27.95
26-Oct-21	161	89	46	13.15	23.39
05-Nov-21	144	73	40	13.35	25.75
06-Nov-21	156	79	42	18.04	19.26
10-Nov-21	170	91	53	21.02	37.2
11-Nov-21	157	83	49	20.22	28.55
18-Nov-21	140	73	42	14.23	24.42
19-Nov-21	149	78	40	13.07	20.86
26-Nov-21	168	83	50	15.12	34.73
27-Nov-21	143	89	46	15.87	30.57
03-Dec-21	131	75	49	12.27	26.03
04-Dec-21	137	93	41	18.35	22.8
10-Dec-21	119	79	44	21.34	35.15
11-Dec-21	151	94	40	21.83	26.48
20-Dec-21	167	93	45	12.01	32.03
21-Dec-21	170	95	48	16.05	26.25
27-Dec-21	156	98	41	15.7	23.7
28-Dec-21	196	94	39	17.28	28.63
05-Jan-22	144	85	33	15.07	28.41
06-Jan-22	136	80	32	18.8	19.63
12-Jan-22	140	82	28	19.35	27.76
13-Jan-22	137	89	30	21.66	27.34
19-Jan-22	132	79	30	11.94	33.8
20-Jan-22	145	96	33	16.77	23.53
27-Jan-22	152	90	36	20.4	37.22
28-Jan-22	145	99	32	20.93	29.75
03-Feb-22	148	85	40	12.93	23.46
04-Feb-22	126	71	30	15.96	20.83
11-Feb-22	112	80	32	19.57	32.61
12-Feb-22	136	85	36	13.2	31.3
16-Feb-22	129	78	30	9.63	21.05
17-Feb-22	108	62	23	14.99	20.89
25-Feb-22	125	73	24	15.73	30.12
26-Feb-22	100	61	19	14.26	27.28
03-Mar-22	140	83	36	14.54	25.43
04-Mar-22	127	81	33	16.3	20.95

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11-Mar-22	136	72	35	20.43	32.78
12-Mar-22	145	81	28	14.82	33.38
21-Mar-22	121	70	22	11.2	18.98
22-Mar-22	114	58	26	10.39	17.89
28-Mar-22	134	74	30	15.36	24.08
29-Mar-22	128	72	33	17.25	25.61
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	237	99	53	27.37	49.29
Minimum	80	44	19	9.22	14.53
Average	133.8	76.6	35.7	15.5	27.5
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40



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Table: 7.28

Area: Basundhara

Project: Garjanbahal OCP

Monitoring Station: North West of Working Face (Tumulia)

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-21	217	89	52	13.84	28.75
06-Apr-21	194	78	46	13.23	27.58
12-Apr-21	233	88	49	14.86	29.82
13-Apr-21	225	79	51	14.62	29.57
19-Apr-21	236	93	52	15.27	29.64
20-Apr-21	214	86	49	15.04	29.27
07-May-21	156	80	44	26.29	31.81
08-May-21	149	77	41	17.99	30
14-May-21	124	71	37	22.27	34.22
15-May-21	134	66	33	20.93	30.18
21-May-21	119	72	36	18.84	36.73
22-May-21	109	69	33	24.82	34.6
28-May-21	96	54	23	21.69	46.23
29-May-21	105	63	28	24.87	39.65
04-Jun-21	165	84	42	23.62	27.47
05-Jun-21	170	92	49	18.08	28.97
11-Jun-21	158	75	35	22.39	33.08
12-Jun-21	164	83	38	22.22	30.79
18-Jun-21	169	83	47	17.51	34.26
19-Jun-21	158	89	51	19.33	39.46
25-Jun-21	136	77	41	23.99	28.5
26-Jun-21	115	63	35	22.98	35.81
07-Jul-21	98	60	31	10.28	22.34
08-Jul-21	98	54	23	12.72	22.04
14-Jul-21	110	67	30	10.63	22.87
15-Jul-21	104	57	25	11.12	28.65
21-Jul-21	143	81	32	9.05	23.45
22-Jul-21	131	75	34	10.51	20.02
28-Jul-21	127	78	26	9.18	22.17
29-Jul-21	120	72	35	8.73	25.86
02-Aug-21	97	64	29	9.95	13.67
03-Aug-21	119	74	33	13.73	26.11
09-Aug-21	82	57	26	12.06	20.77
10-Aug-21	109	72	31	8.37	21.25
16-Aug-21	83	49	22	13.98	22.45
17-Aug-21	78	45	26	10.49	17.45
23-Aug-21	119	74	35	11.84	21.98
24-Aug-21	131	79	38	12.26	18.94
01-Sep-21	98	53	29	16.39	24.48
02-Sep-21	103	61	33	13.72	12.73

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08-Sep-21	127	73	37	18.51	17.16
09-Sep-21	108	70	36	13.03	19.15
17-Sep-21	129	74	35	12.13	24
18-Sep-21	98	58	24	15.95	23.35
24-Sep-21	136	76	32	14.13	27.46
25-Sep-21	151	80	39	13.96	28.32
04-Oct-21	120	79	38	14.77	30.25
05-Oct-21	133	83	41	15.06	31.1
08-Oct-21	157	95	47	16.12	25.23
09-Oct-21	146	91	45	14.52	31.56
18-Oct-21	139	77	41	15.8	32.35
19-Oct-21	147	85	44	14.24	29.4
25-Oct-21	177	92	52	16.95	26.52
26-Oct-21	159	84	49	13.98	30.4
05-Nov-21	137	72	41	15.84	23.56
06-Nov-21	134	75	46	21.68	33.23
10-Nov-21	153	84	49	18.22	26.89
11-Nov-21	165	88	47	23.96	26.21
18-Nov-21	131	70	44	17.31	24.47
19-Nov-21	140	75	46	14.32	31.95
26-Nov-21	163	84	51	13.26	29.99
27-Nov-21	175	91	53	13.96	22.64
03-Dec-21	148	92	45	15.8	37.96
04-Dec-21	130	90	42	24.74	33.88
10-Dec-21	116	81	52	17.9	23.04
11-Dec-21	150	97	57	21.61	23.52
20-Dec-21	146	98	57	16.61	26.87
21-Dec-21	165	97	56	15.18	38.46
27-Dec-21	148	90	52	18.02	23.98
28-Dec-21	186	91	51	14.36	27.49
05-Jan-22	169	75	27	16.25	35.68
06-Jan-22	152	80	20	15.36	32.45
12-Jan-22	160	86	23	19.8	34.65
13-Jan-22	188	77	22	24.28	25.96
19-Jan-22	190	83	26	19.62	24.04
20-Jan-22	145	72	30	16.35	24.47
27-Jan-22	174	88	40	19.17	31.04
28-Jan-22	165	76	28	19.44	27.89
03-Feb-22	149	90	45	21.77	23.8
04-Feb-22	159	89	39	16.74	31.66
11-Feb-22	145	80	35	18.47	28.04
12-Feb-22	121	71	30	16.07	23.86
16-Feb-22	136	86	33	15.19	22.94
17-Feb-22	125	80	28	10.62	19.42
25-Feb-22	103	70	20	12.84	24.23
26-Feb-22	119	79	25	13.56	22.63
03-Mar-22	145	66	26	21.98	23.73
04-Mar-22	168	86	36	17.43	31.63

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11-Mar-22	150	80	33	20.45	30.11
12-Mar-22	122	75	30	16.38	23.68
21-Mar-22	122	76	26	11.23	19.02
22-Mar-22	109	70	21	8.96	16.32
28-Mar-22	129	77	28	12.39	19.68
29-Mar-22	139	81	32	11.23	19.6
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	236	98	57	26.29	46.23
Minimum	78	45	20	8.37	12.73
Average	141.4	77.3	37.3	16.2	27.1
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

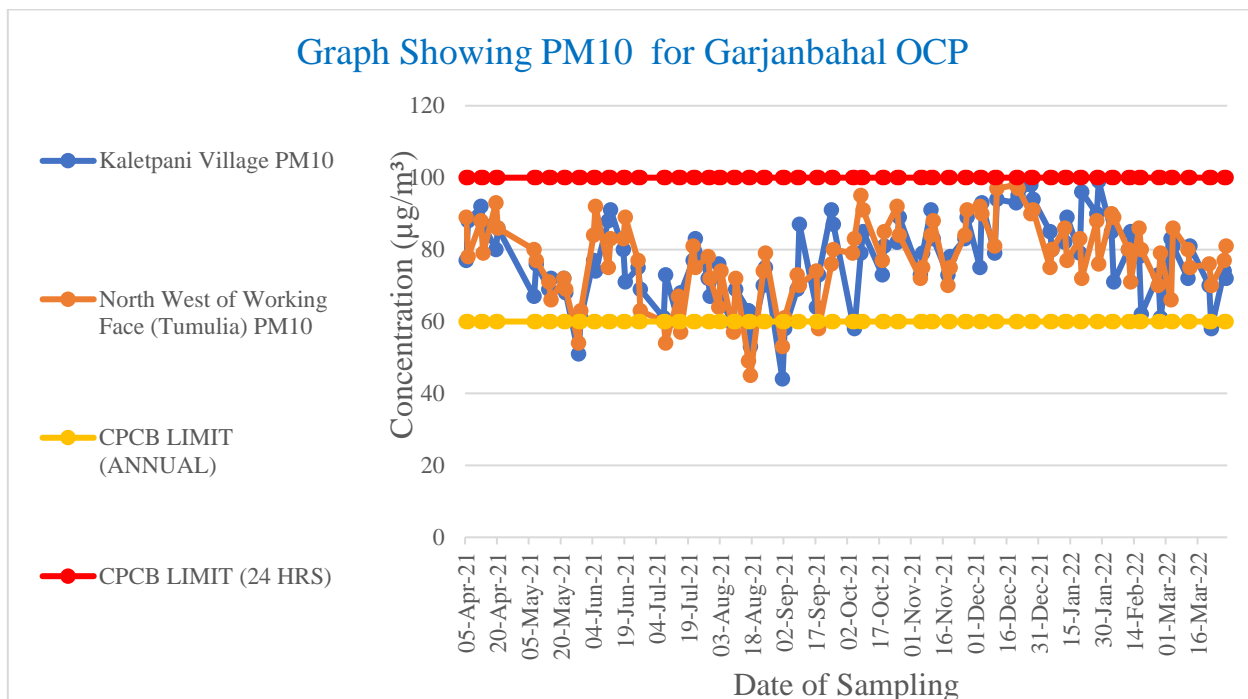


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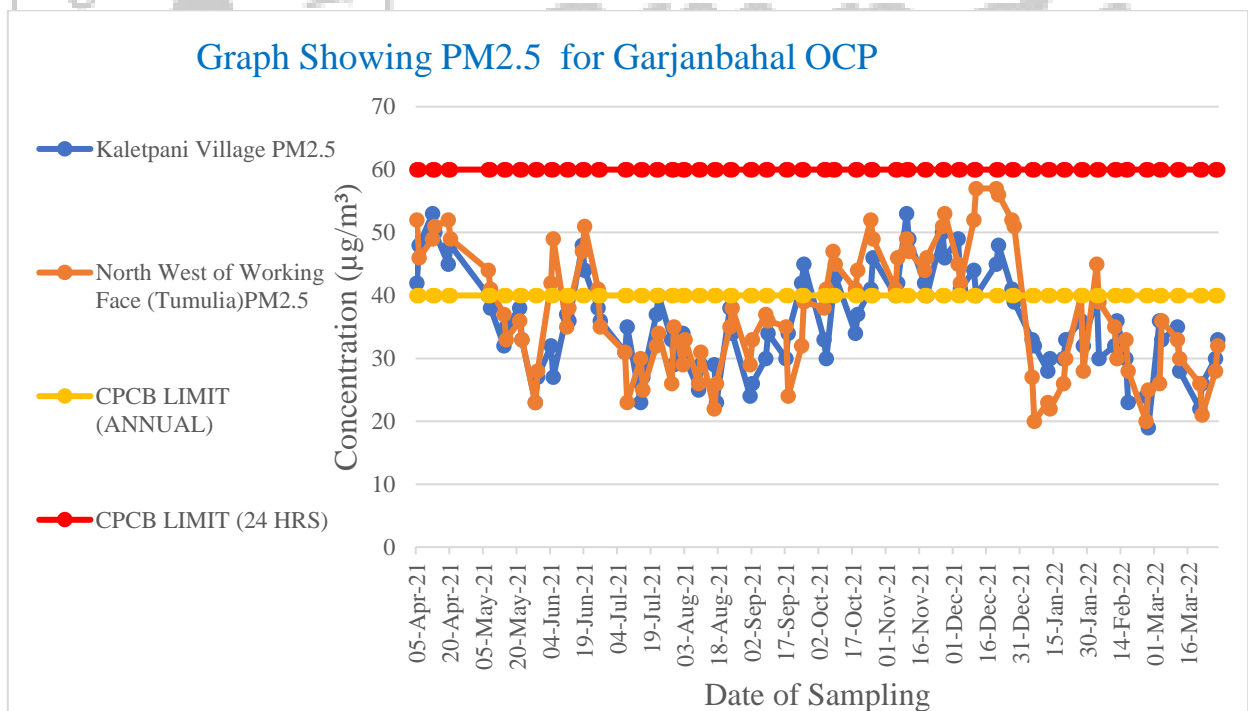
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Graph Showing PM10 for Garjanbahal OCP



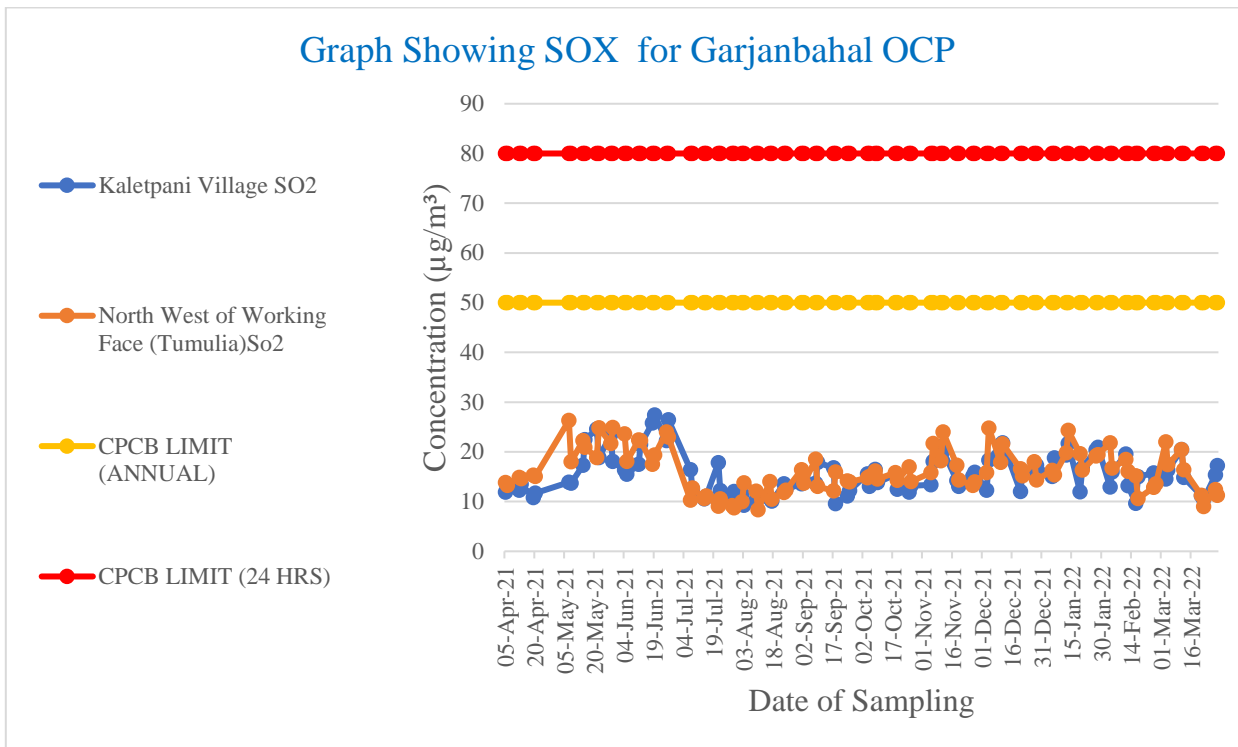
Graph Showing PM2.5 for Garjanbahal OCP



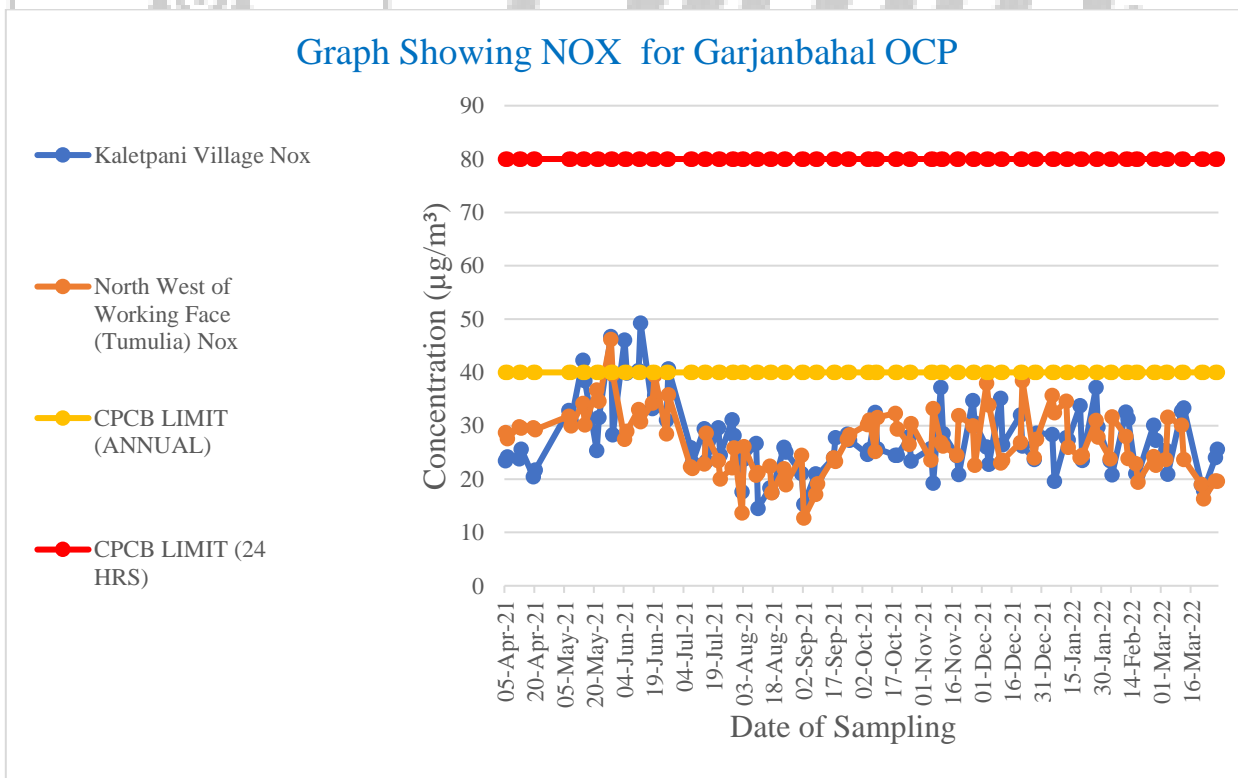
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Graph Showing SOX for Garjanbahal OCP



Graph Showing NOX for Garjanbahal OCP



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Table: 7.29

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** North of the Sardega Railway Siding

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Apr-21	374	218	63	16.59	33.81
16-Apr-21	352	197	54	15.31	31.1
14-May-21	205	103	37	19.22	31.41
28-May-21	159	83	30	19.76	36.85
12-Jun-21	238	142	47	21.58	33.89
29-Jun-21	323	193	52	25.35	33.19
07-Jul-21	244	135	47	11.68	21.71
27-Jul-21	265	148	49	15.22	22.3
04-Aug-21	108	67	35	10.38	15.11
18-Aug-21	169	101	37	14.82	21.75
07-Sep-21	214	124	41	14.8	26.39
22-Sep-21	223	126	45	12.87	31.82
16-Oct-21	278	162	48	19.32	28.44
27-Oct-21	301	183	57	15.84	28.84
12-Nov-21	279	168	49	23.03	22.85
22-Nov-21	309	193	59	11.79	19.34
09-Dec-21	236	160	42	17.48	30.62
22-Dec-21	261	152	32	18.14	28.93
11-Jan-22	222	149	44	15.31	33.23
31-Jan-22	200	136	47	19.28	25.85
10-Feb-22	184	122	52	20.79	20.09
23-Feb-22	183	133	50	13.11	22.71
07-Mar-22	160	108	44	19.09	18.14
24-Mar-22	200	136	55	18.34	27.36
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	374	218	63	25.35	36.85
Minimum	108	67	30	10.38	15.11
Average	237.0	143.3	46.5	17.0	26.9
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.30

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** South West of Working Face Gopalpur Village,
Near CMPDI Camp

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Apr-21	439	227	65	19.8	39.87
19-Apr-21	357	172	71	15.5	31.23
14-May-21	138	80	39	22.7	44.52
28-May-21	120	71	37	22.3	41.73
12-Jun-21	162	89	36	20.8	39.24
29-Jun-21	195	124	40	20.7	40.73
08-Jul-21	179	107	36	9.97	15.98
28-Jul-21	198	125	40	8.23	16.28
05-Aug-21	82	50	26	12.3	9.27
19-Aug-21	169	106	37	13.3	19.69
07-Sep-21	129	82	41	10	21.11
22-Sep-21	246	136	44	13	26.81
16-Oct-21	264	159	55	14.9	20.46
29-Oct-21	288	172	61	17.2	23.95
12-Nov-21	283	171	58	18.1	23.33
22-Nov-21	317	186	62	10.2	20.82
13-Dec-21	139	120	53	13.6	21.28
23-Dec-21	251	80	53	14.6	19.89
14-Jan-22	184	99	45	10.3	21.79
31-Jan-22	176	93	40	16.4	25.29
14-Feb-22	188	111	43	17.1	16.64
23-Feb-22	167	100	39	10.4	23.93
08-Mar-22	129	68	27	17.3	16.82
24-Mar-22	153	80	32	12.4	21.08
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	439	227	71	22.7	44.52
Minimum	82	50	26	8.23	9.27
Average	206.4	117.0	45.0	15.0	25.1
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.31

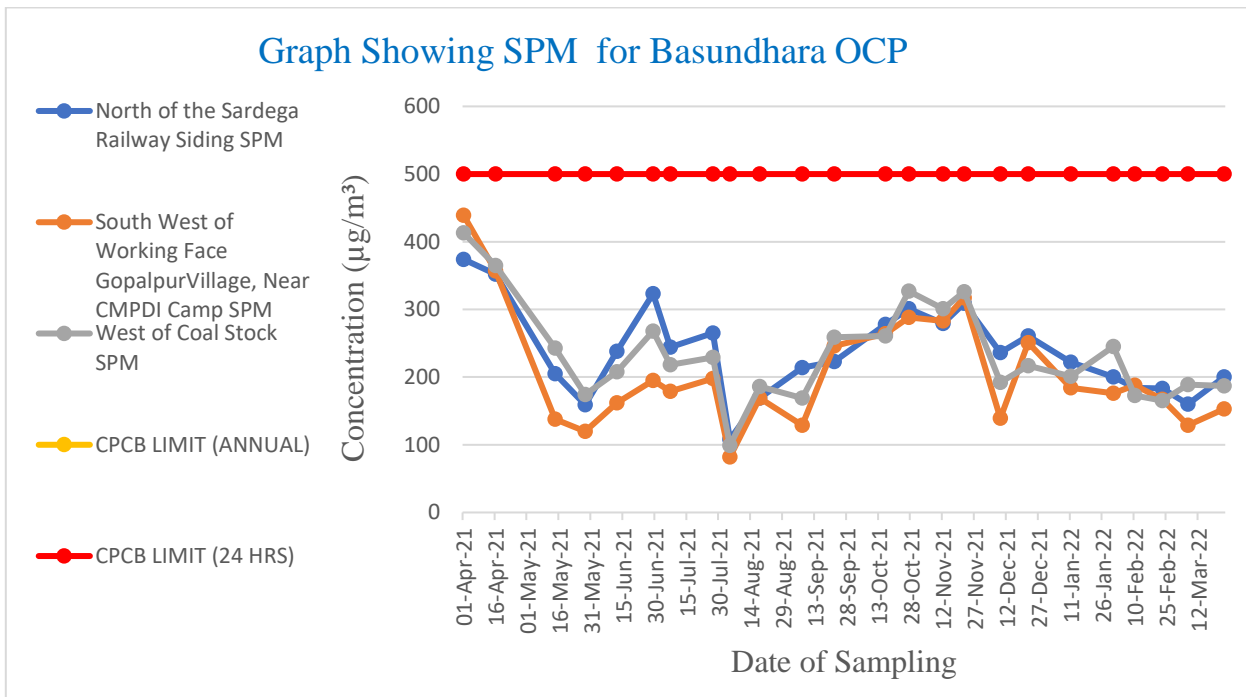
Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** West of Coal Stock

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Apr-21	413	188	67	19.25	39.74
17-Apr-21	365	166	59	15.79	31.58
14-May-21	243	112	40	15.02	30.89
28-May-21	174	94	29	21.99	37.08
12-Jun-21	208	138	39	16.02	31.68
29-Jun-21	268	177	56	19.91	23.31
08-Jul-21	218	131	45	11.35	19.62
27-Jul-21	229	140	47	9.15	18.63
04-Aug-21	99	59	34	10.54	12.42
18-Aug-21	186	125	46	13.33	19.89
07-Sep-21	169	91	36	13.11	23.88
22-Sep-21	259	146	49	12.79	26.63
16-Oct-21	261	169	51	12.92	25.87
29-Oct-21	327	198	63	11.12	25.57
12-Nov-21	301	183	61	15.09	27.65
22-Nov-21	326	209	66	8.78	14.16
09-Dec-21	192	132	48	12.02	24.81
23-Dec-21	217	123	56	12.64	24.4
11-Jan-22	201	130	59	9.03	23.23
31-Jan-22	245	145	55	17.93	31.53
10-Feb-22	173	136	56	15.84	13.91
23-Feb-22	165	111	51	10.25	18.75
08-Mar-22	189	133	48	16.43	14.62
24-Mar-22	187	122	56	18.7	25.23
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	413	209	67	21.99	39.74
Minimum	99	59	29	8.78	12.42
Average	234.0	139.9	50.7	14.1	24.4
Standard 24 hr	500	250		120	120
Standard Annual				80	80

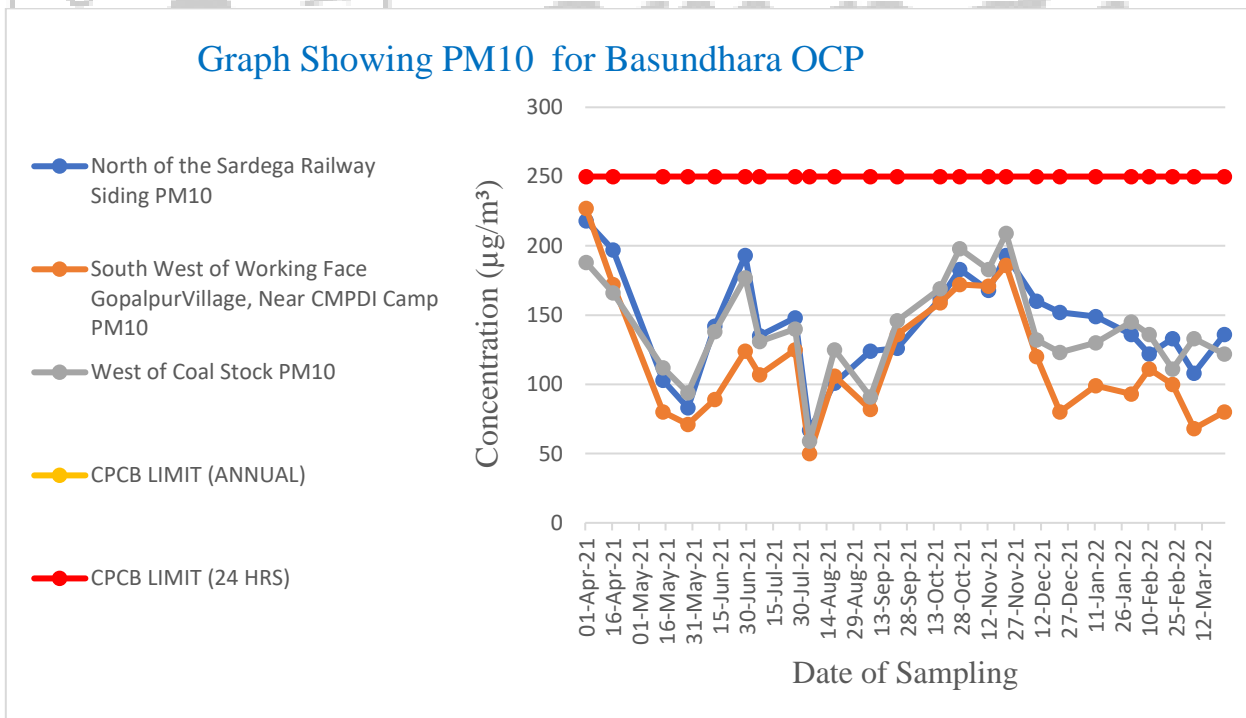
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Graph Showing SPM for Basundhara OCP

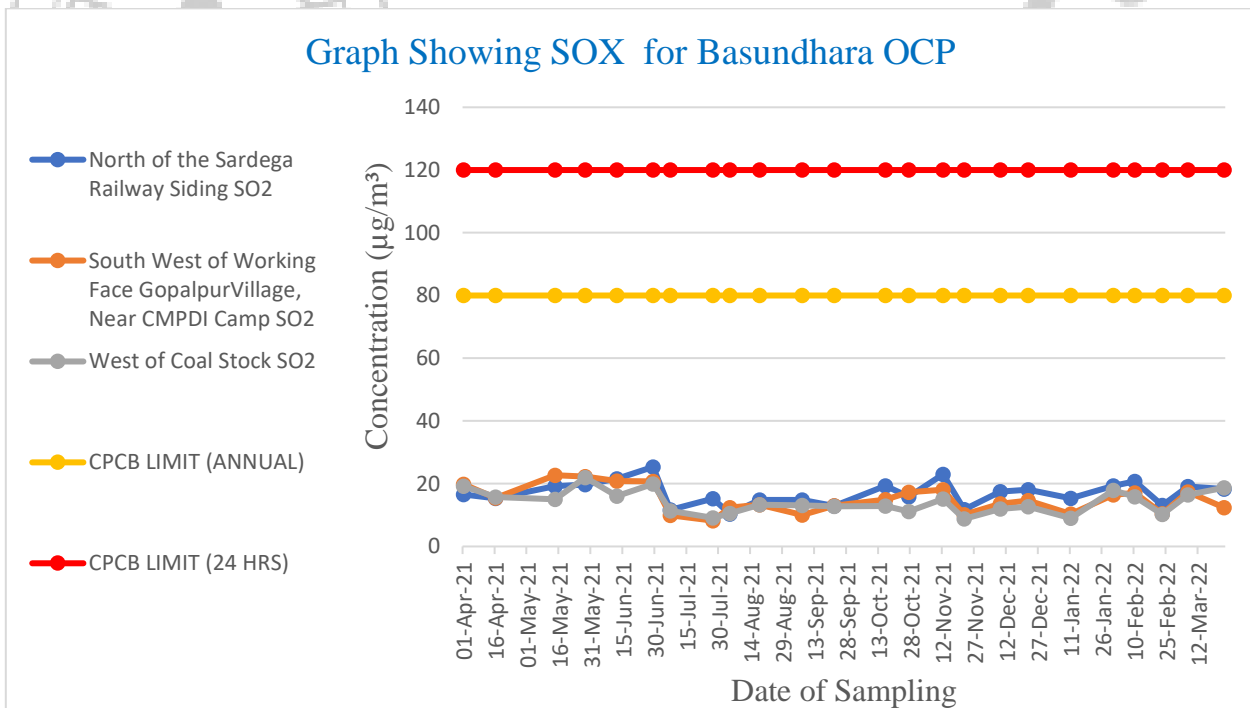
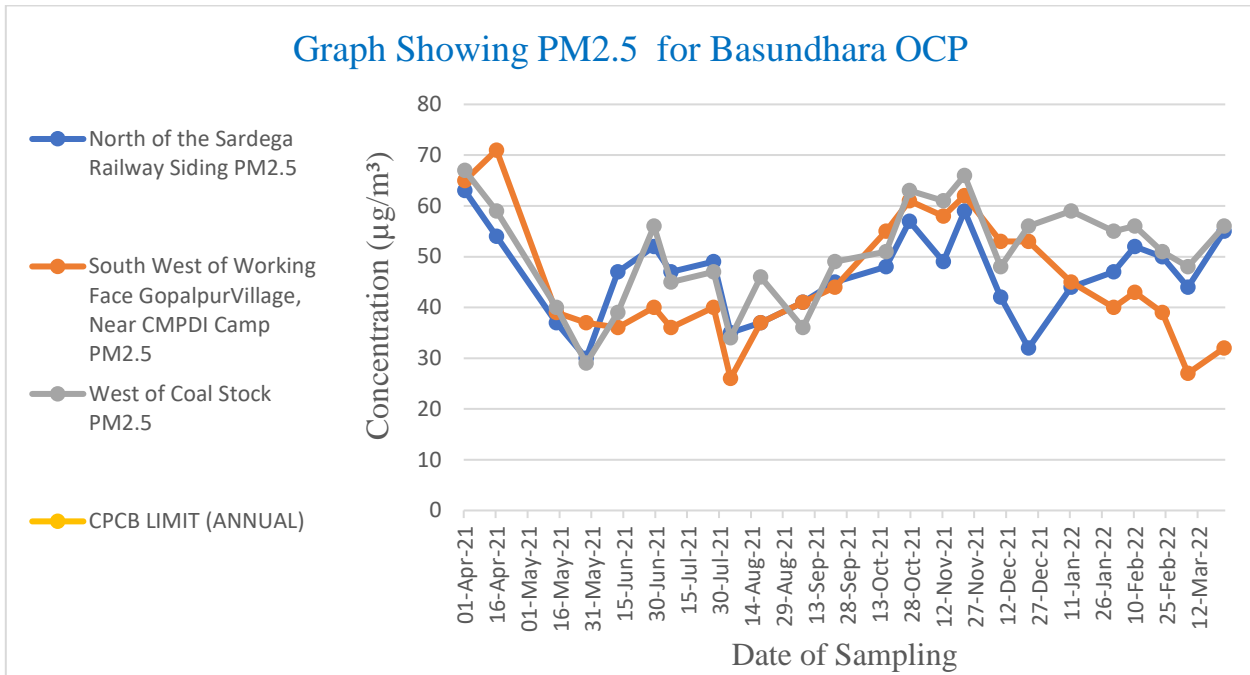


Graph Showing PM10 for Basundhara OCP



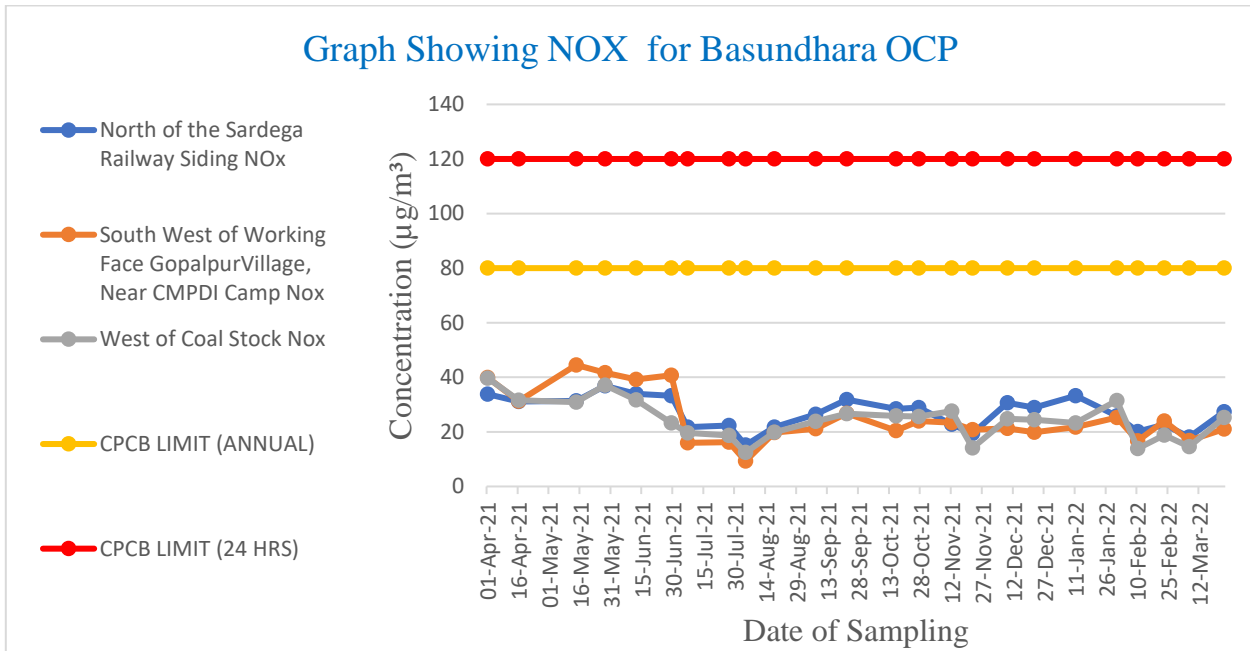
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Table: 7.32

Area: Mahalaxmi**Project:** Basundhara (w) OCP**Monitoring Station:** Sarangijharia Community Centre

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Apr-21	199	82	50	14.13	29.16
02-Apr-21	221	76	48	14.61	29.58
08-Apr-21	180	69	45	13.64	27.62
09-Apr-21	198	78	52	15.37	28.49
15-Apr-21	172	88	50	13.58	27.37
16-Apr-21	157	65	38	11.69	21.94
22-Apr-21	185	80	45	12.73	24.68
23-Apr-21	205	87	49	13.51	26.17
28-Apr-21	175	88	44	12.64	24.23
29-Apr-21	213	90	50	13.87	26.49
05-May-21	151	76	41	15.93	39.92
06-May-21	143	70	38	20.41	35.75
12-May-21	123	68	31	18.85	36.36
13-May-21	116	63	29	19.91	31.69
19-May-21	119	68	34	20.92	50.08
20-May-21	126	71	37	24.44	48.4
26-May-21	84	53	27	23.93	36.46
27-May-21	92	55	23	18.68	37.38
03-Jun-21	142	77	29	18.93	45.61
04-Jun-21	128	81	31	21.76	36.62
09-Jun-21	128	87	33	22.09	40.97
10-Jun-21	114	70	30	18.52	28.34
16-Jun-21	117	61	38	23.24	42.38
17-Jun-21	102	70	37	19.69	41.79
23-Jun-21	108	59	29	17.26	30.43
24-Jun-21	98	63	32	22.95	45.06
05-Jul-21	158	84	37	13.48	15.73
06-Jul-21	150	75	42	11.05	15.07
13-Jul-21	112	62	28	9.44	17.89
13-Jul-21	133	70	33	10.1	19.23
19-Jul-21	97	57	26	11.05	17.71
20-Jul-21	88	51	31	8.04	20.84
26-Jul-21	101	60	29	14.36	18.55
27-Jul-21	114	67	34	9.87	21.78
02-Aug-21	85	55	24	11.7	14.6
03-Aug-21	101	49	27	8.7	11.58
09-Aug-21	104	59	26	12.84	12.97
10-Aug-21	98	62	22	11.92	15.52
16-Aug-21	84	49	24	19.68	25.85
17-Aug-21	92	58	26	16.18	19.23

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23-Aug-21	105	69	31	13.78	17.57
24-Aug-21	121	73	34	14.55	32.85
01-Sep-21	79	46	23	14.67	25.78
02-Sep-21	99	57	29	15.43	25.44
08-Sep-21	116	68	33	17.25	25.59
09-Sep-21	128	71	35	15.66	23.41
17-Sep-21	113	63	29	18.16	17.96
18-Sep-21	121	72	32	12.1	22.63
24-Sep-21	135	81	35	14.84	24.17
25-Sep-21	138	79	38	15.35	31.77
04-Oct-21	87	51	27	11.88	30.64
05-Oct-21	96	58	29	17.86	24.75
08-Oct-21	111	68	34	11.43	30.19
09-Oct-21	127	78	39	14.03	30.37
18-Oct-21	101	57	35	14.81	29.12
19-Oct-21	116	70	38	17.35	33.98
25-Oct-21	126	77	41	15.45	35.16
26-Oct-21	128	73	40	34.59	81.78
01-Nov-21	109	64	37	18.01	28.68
02-Nov-21	126	69	39	17.16	33.04
08-Nov-21	139	77	43	17.86	36.76
09-Nov-21	133	80	46	13.53	32.38
16-Nov-21	104	63	35	13.1	23.95
17-Nov-21	124	78	38	11.17	23.2
24-Nov-21	137	84	43	11.9	23.58
25-Nov-21	141	80	44	12.29	21.6
01-Dec-21	104	64	30	13.44	35.48
02-Dec-21	152	98	37	16.19	33.63
08-Dec-21	135	91	38	11.51	34.74
09-Dec-21	154	95	46	14.96	30.03
16-Dec-21	177	87	52	20.85	20.78
17-Dec-21	167	82	42	15.96	28.48
24-Dec-21	180	89	41	17.92	29.68
25-Dec-21	182	98	36	22.09	35.71
03-Jan-22	165	90	55	15.51	22.39
04-Jan-22	159	85	50	16.65	26.45
10-Jan-22	165	96	44	16.21	31.53
11-Jan-22	142	88	35	16.96	29.92
17-Jan-22	185	92	52	15.32	25.16
18-Jan-22	160	82	44	14.68	24.88
24-Jan-22	159	73	37	17.09	23.23
25-Jan-22	133	90	32	16.93	23.95
01-Feb-22	129	69	26	15.52	21.5
02-Feb-22	139	77	38	14.45	23.49
09-Feb-22	155	85	34	11.25	24.01
10-Feb-22	168	80	29	16.48	19.68
18-Feb-22	120	88	33	12.52	23.74
19-Feb-22	115	76	23	12.92	21.01

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25-Feb-22	125	80	30	16.49	28.73
26-Feb-22	145	84	36	15.4	26.09
01-Mar-22	145	77	30	20.3	24.66
02-Mar-22	155	80	36	13.58	21.46
09-Mar-22	125	60	24	11.21	25.17
10-Mar-22	136	75	29	18.91	27.45
16-Mar-22	134	70	30	14.23	24.56
17-Mar-22	109	70	20	13.68	22.1
25-Mar-22	115	75	23	11.29	19.3
26-Mar-22	140	80	30	11.23	20.39
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	221	98	55	34.59	81.78
Minimum	79	46	20	8.04	11.58
Average	133.1	73.3	35.4	15.6	27.9
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

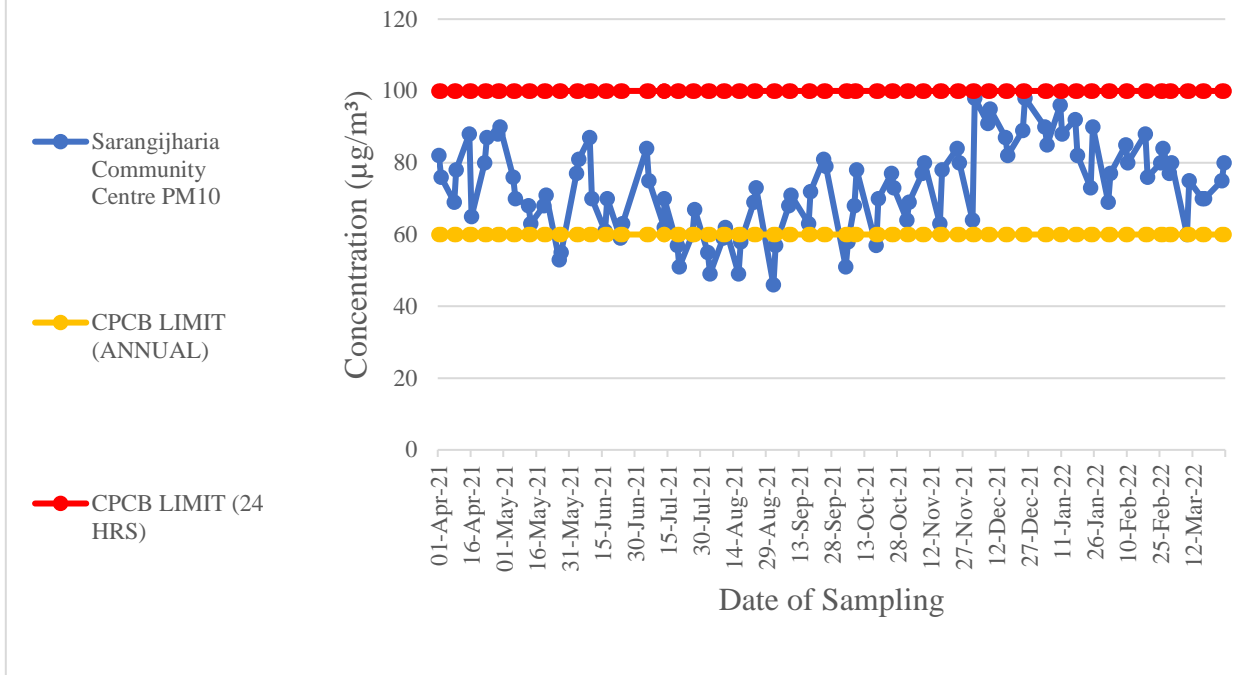


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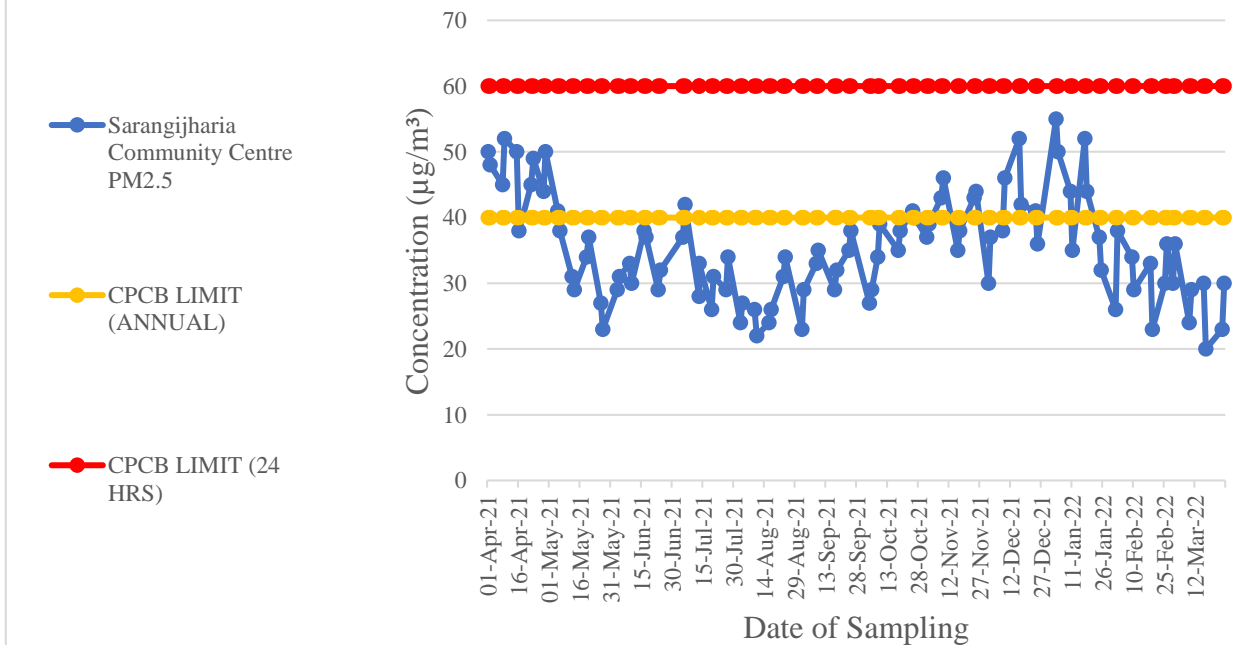
JOB NO.750001

Graph Showing PM10 for Basundhara OCP



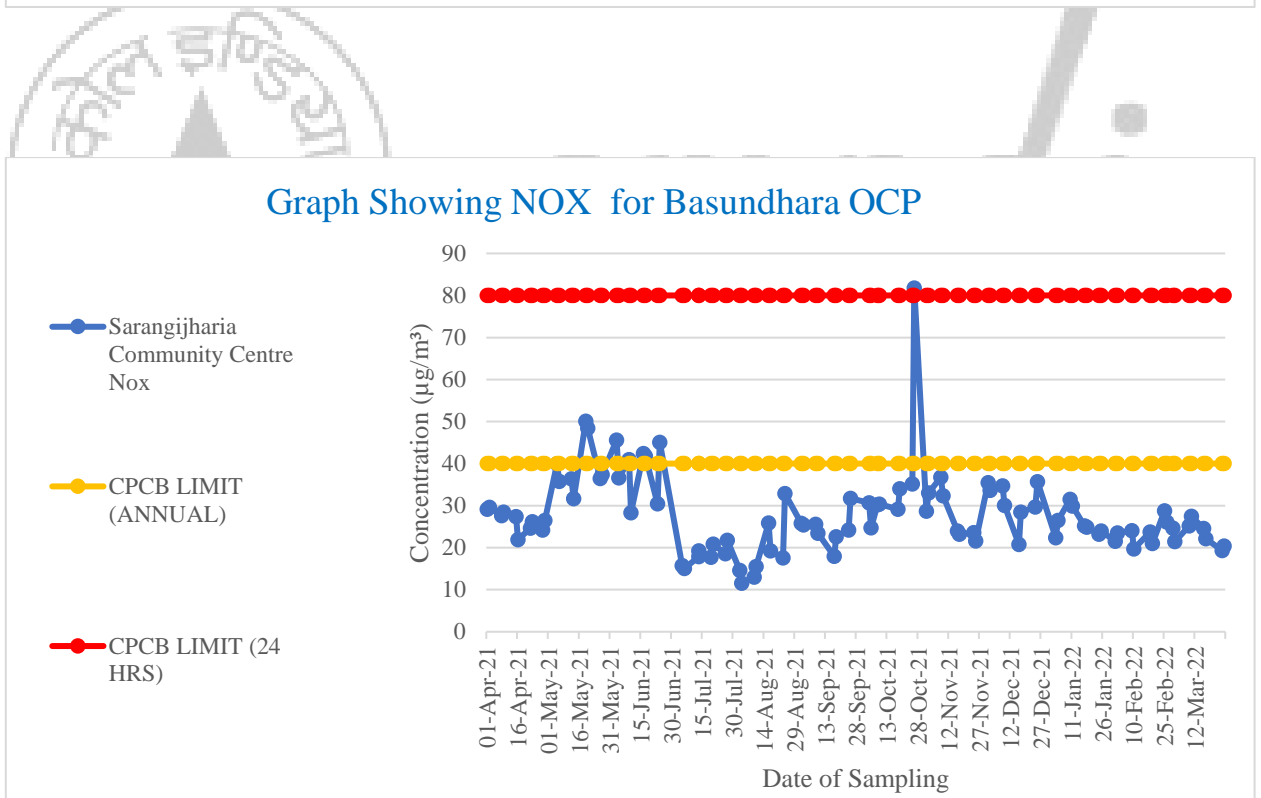
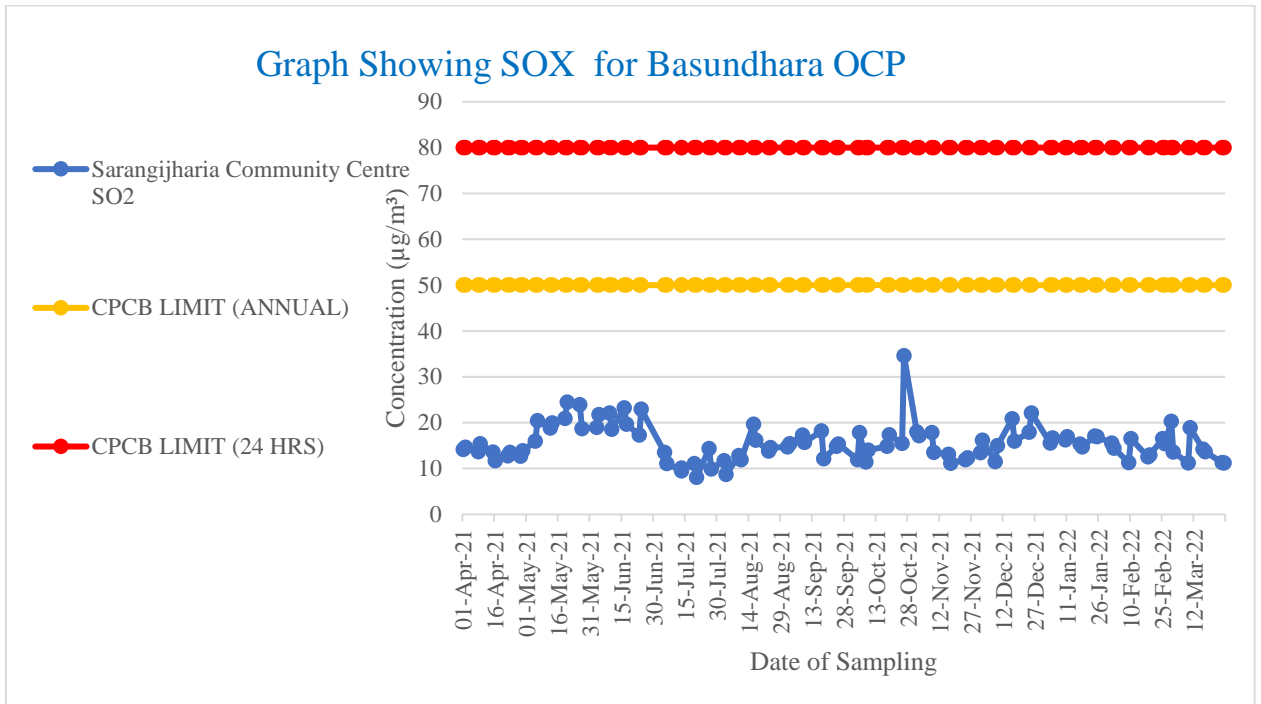
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Graph Showing PM2.5 for Basundhara OCP



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JOB NO.750001

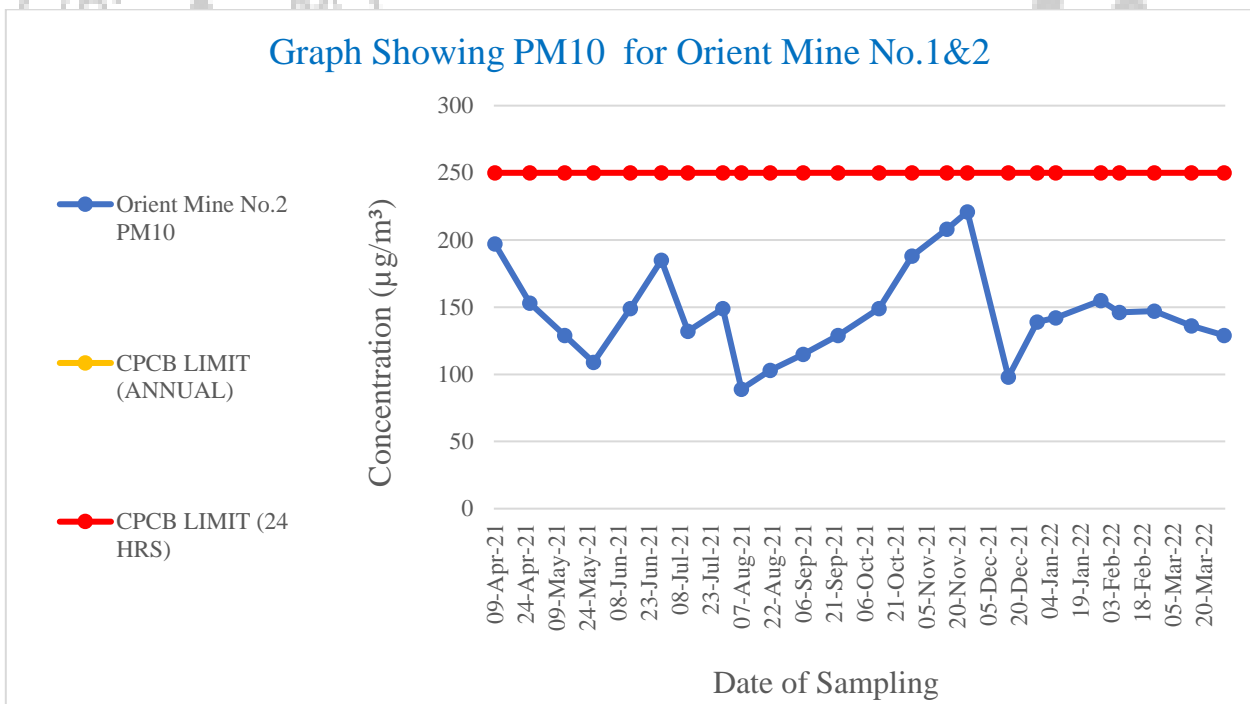
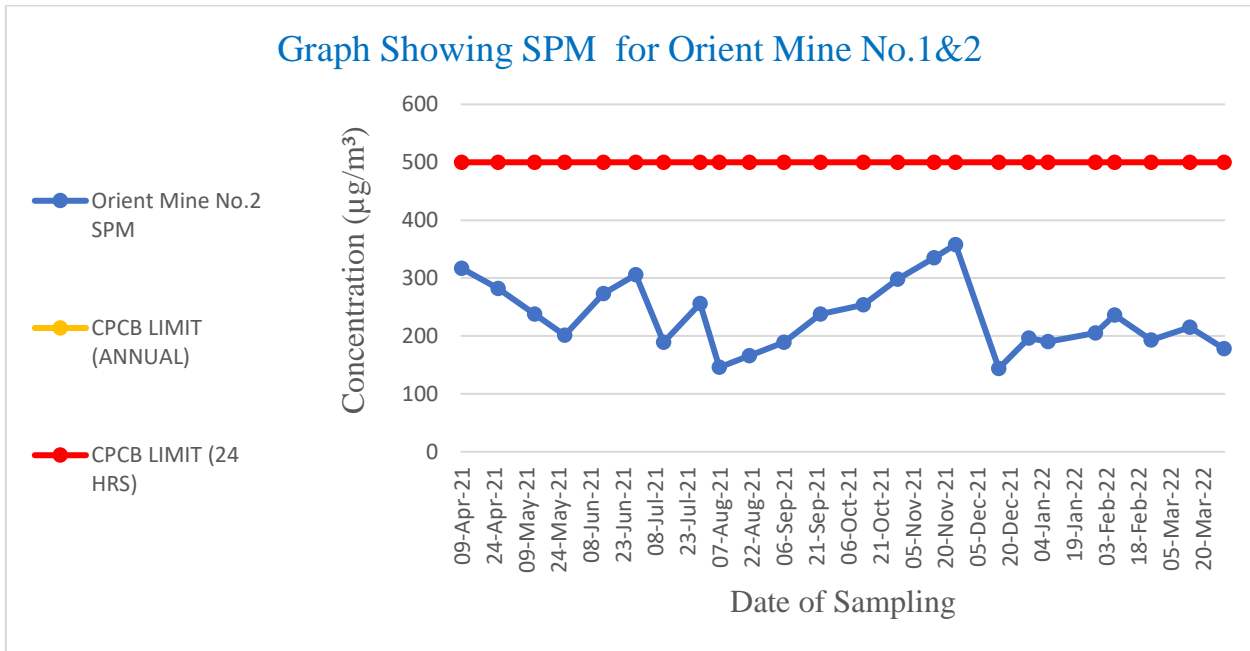
Table: 7.33

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
09-Apr-21	317	197	62	14.35	27.83
26-Apr-21	282	153	59	16.72	32.74
13-May-21	238	129	42	20.31	34.95
27-May-21	201	109	37	16.56	23.66
14-Jun-21	273	149	46	17.93	34.24
29-Jun-21	306	185	53	20.59	30.32
12-Jul-21	189	132	39	13.02	24.89
29-Jul-21	256	149	45	14.18	29.15
07-Aug-21	146	89	30	12.81	24.45
21-Aug-21	166	103	36	10.76	24.53
06-Sep-21	189	115	39	14.19	21.92
23-Sep-21	238	129	47	10.12	18.19
13-Oct-21	254	149	57	14	22.1
29-Oct-21	298	188	63	12.22	25.87
15-Nov-21	335	208	57	17.6	32.3
25-Nov-21	358	221	63	10.62	30.14
15-Dec-21	144	98	41	17.61	30.75
29-Dec-21	196	139	38	23.32	36.92
07-Jan-22	190	142	32	16.78	28.93
29-Jan-22	205	155	36	16.44	27.83
07-Feb-22	236	146	58	9	33.3
24-Feb-22	193	147	48	16.92	21.85
14-Mar-22	215	136	48	10.15	34.85
30-Mar-22	178	129	42	14.23	22.25
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	358	221	63	23.32	36.92
Minimum	144	89	30	9	18.19
Average	233.5	145.7	46.6	15.0	28.1
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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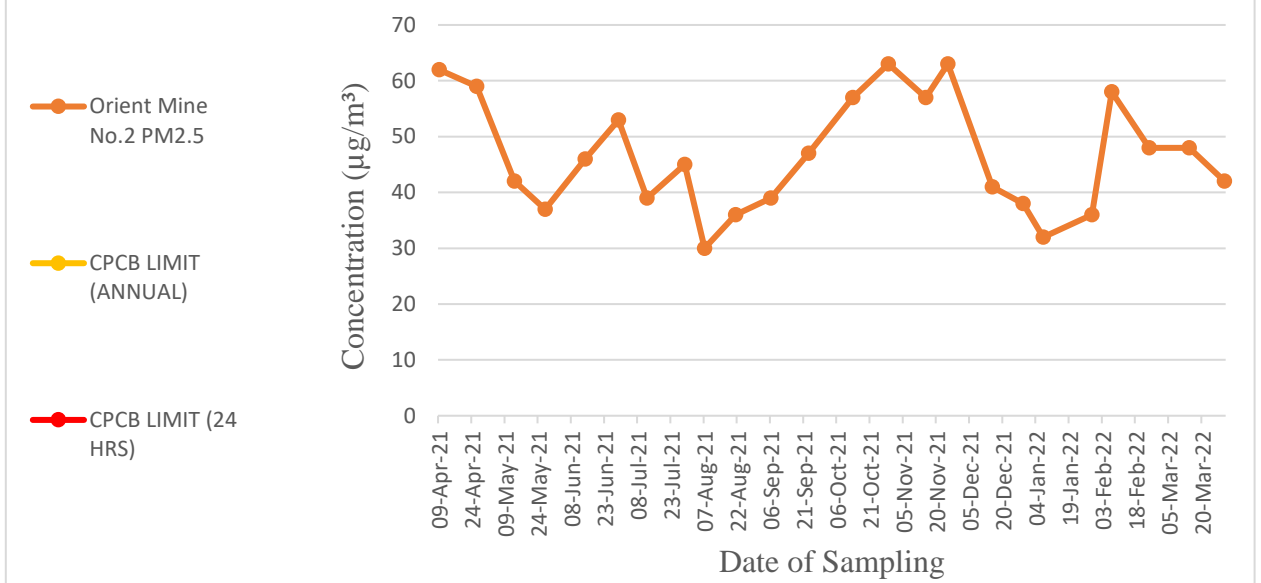
JOB NO.750001



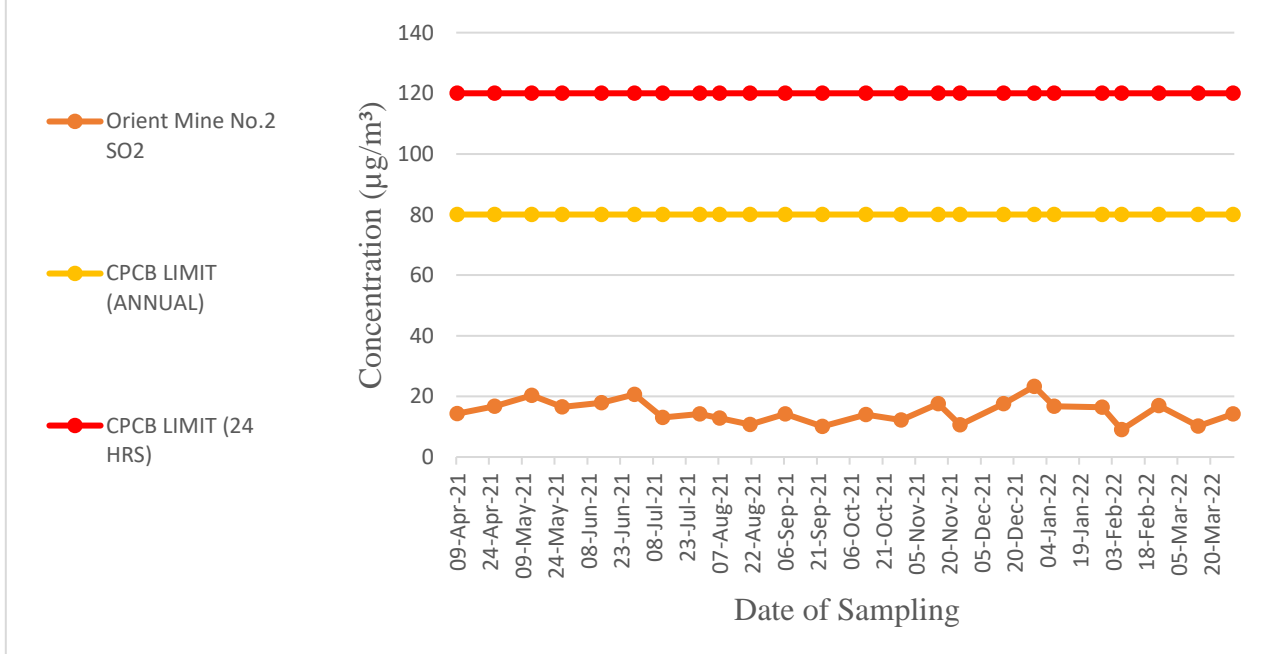
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Graph Showing PM2.5 for Orient Mine No.1&2

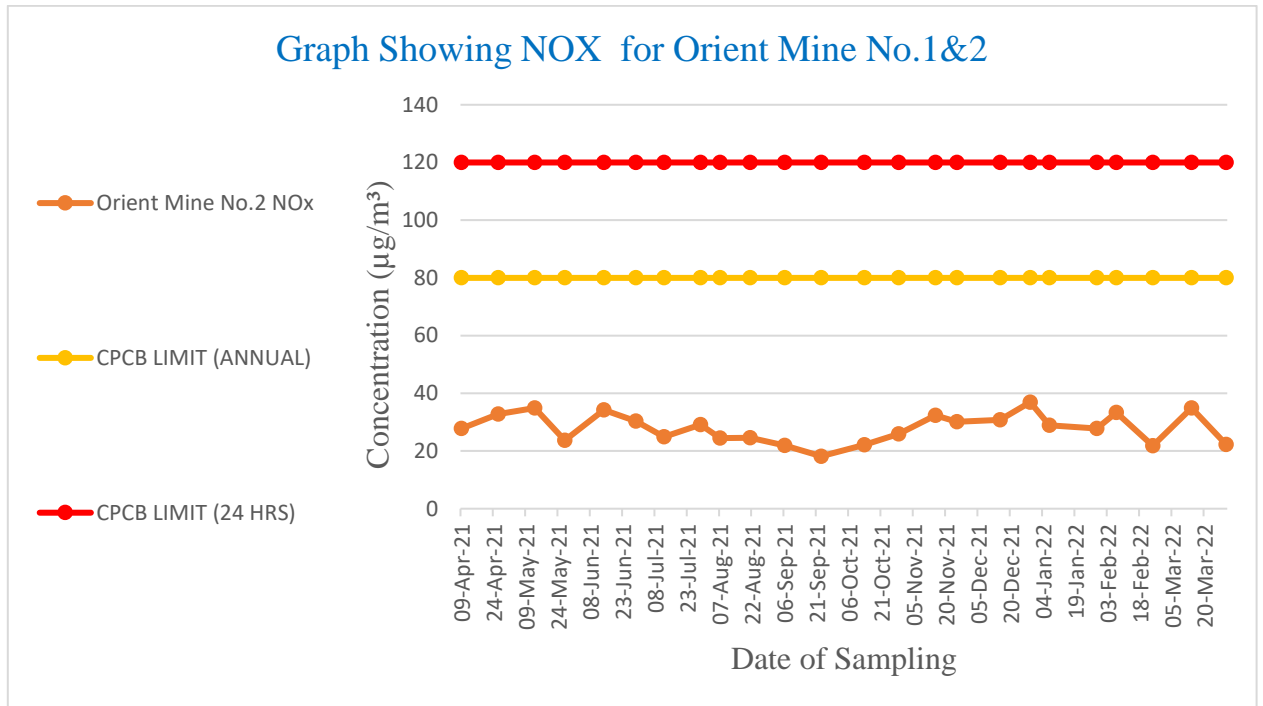


Graph Showing SOX for Orient Mine No.1&2



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Table: 7.34

Area: Orient**Project:** Orient Mine No.1 & 2**Monitoring Station:** VIP Guest House IB Valley

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
05-Apr-21	144	69	42	11.48	23.68
06-Apr-21	157	71	44	12.53	25.37
12-Apr-21	165	80	48	13.84	26.71
13-Apr-21	177	92	49	13.46	26.36
19-Apr-21	142	88	43	10.82	21.87
20-Apr-21	127	83	38	10.61	21.45
07-May-21	116	74	38	23.17	31.78
08-May-21	105	69	35	22.4	29.57
14-May-21	110	71	31	19.1	34.73
15-May-21	118	76	33	16.07	26.29
21-May-21	107	69	30	17.28	30.84
22-May-21	102	60	26	24.42	38.85
28-May-21	90	52	21	21.63	35.95
29-May-21	97	57	25	17.92	34.41
04-Jun-21	133	61	30	19.99	31.24
05-Jun-21	146	78	36	23.59	30.4
11-Jun-21	120	73	25	20.75	26.04
12-Jun-21	106	67	21	23.19	35.31
18-Jun-21	128	79	37	19.79	22.21
19-Jun-21	116	75	41	21.31	34.6
25-Jun-21	103	66	35	19	33.26
26-Jun-21	110	59	29	23.59	29.77
07-Jul-21	94	59	28	14.65	17.09
08-Jul-21	108	76	30	13.81	20.45
14-Jul-21	93	52	25	11.37	17.12
15-Jul-21	87	59	27	14.45	21.55
21-Jul-21	108	66	29	16.31	19.63
22-Jul-21	111	60	25	16.74	26.16
28-Jul-21	128	75	31	14.19	22.77
29-Jul-21	111	63	27	14.36	22.52
06-Aug-21	109	67	23	15.11	17.59
07-Aug-21	104	72	28	9.88	21.91
13-Aug-21	135	85	36	10.66	18.39
14-Aug-21	111	66	30	9.42	21.32
20-Aug-21	79	49	24	14.7	16.09
21-Aug-21	92	60	27	11.66	19.39
27-Aug-21	127	73	31	10.84	18.66
28-Aug-21	119	81	35	13.3	20.06
06-Sep-21	86	47	25	16.05	24.41
07-Sep-21	101	51	28	18.26	17.74

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15-Sep-21	120	63	31	9.97	15.49
16-Sep-21	133	79	36	11.57	18.06
22-Sep-21	97	61	28	12.82	19.63
23-Sep-21	86	55	24	15.82	26.07
29-Sep-21	139	75	38	10.71	21.93
30-Sep-21	118	68	35	13.21	27.64
06-Oct-21	99	64	31	12.1	25.24
07-Oct-21	106	62	34	12.58	27.64
13-Oct-21	123	77	39	15.3	39.9
14-Oct-21	129	80	41	13.16	31.4
22-Oct-21	106	65	33	12.63	18.97
23-Oct-21	111	69	39	9.92	21.81
29-Oct-21	133	79	41	13.15	27.29
30-Oct-21	149	83	44	11.31	22.35
01-Nov-21	121	76	30	13.26	32.64
02-Nov-21	128	81	34	11.87	26.35
12-Nov-21	130	86	40	15.13	21.07
13-Nov-21	121	80	36	14.63	26.46
22-Nov-21	105	69	43	12.7	34.98
23-Nov-21	121	77	40	11.22	28.35
29-Nov-21	135	71	39	10.8	21.93
30-Nov-21	141	80	45	13.45	25.73
06-Dec-21	127	86	47	15.05	31.2
07-Dec-21	112	82	41	13.95	24.61
13-Dec-21	119	84	41	12.91	19.85
14-Dec-21	115	87	47	14.58	25.39
22-Dec-21	165	93	36	10.48	22.87
23-Dec-21	193	98	48	11.81	24.23
29-Dec-21	214	92	49	15.34	20.99
30-Dec-21	183	98	47	11.93	22.12
07-Jan-22	169	96	33	15.05	22.62
08-Jan-22	172	82	37	12.43	18.97
14-Jan-22	180	75	32	15.57	23.23
15-Jan-22	166	70	34	14	20.2
21-Jan-22	158	69	31	15.6	28.75
22-Jan-22	160	75	36	19.96	28
24-Jan-22	193	83	40	15.96	31.48
25-Jan-22	200	64	28	17.18	25.55
07-Feb-22	135	74	28	18.03	37.45
08-Feb-22	111	65	22	12.42	26.07
14-Feb-22	126	61	30	10.25	23.54
15-Feb-22	158	69	36	15.53	26.28
18-Feb-22	130	70	26	17.56	23.79
19-Feb-22	117	62	22	16.31	23.87
25-Feb-22	138	80	36	13.57	27.09
26-Feb-22	155	84	41	13.12	22.86
07-Mar-22	120	84	24	16.75	33.22
08-Mar-22	135	74	30	13.46	26.99

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14-Mar-22	144	88	36	10.26	20.44
15-Mar-22	112	66	27	16.06	26.23
23-Mar-22	123	65	22	13.25	19.87
24-Mar-22	138	69	28	14.21	20.25
30-Mar-22	145	74	33	13.79	25.36
31-Mar-22	139	70	27	13.21	20.38
Basic Stats	SPM	PM10	PM2.5	SO ₂	NO _x
Maximum	214	98	49	24.42	39.9
Minimum	79	47	21	9.42	15.49
Average	127.9	72.5	33.6	14.8	25.2
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

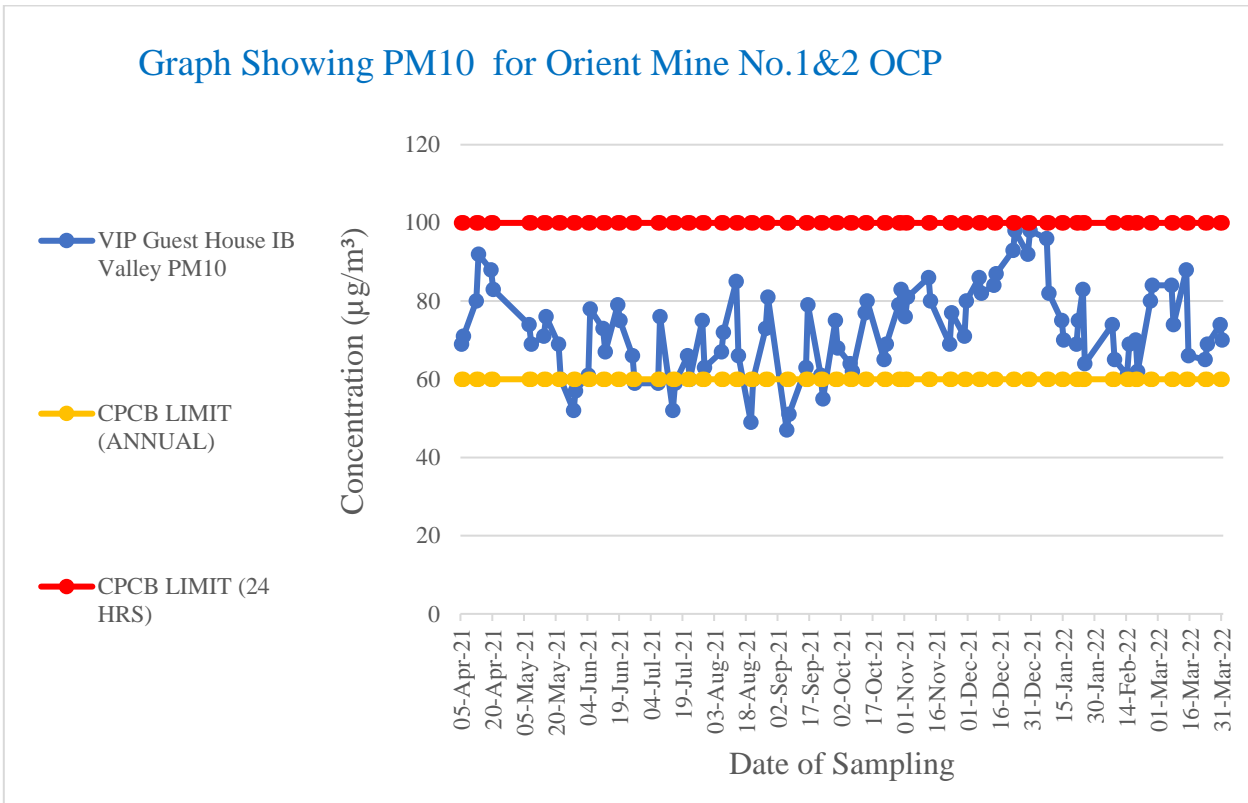


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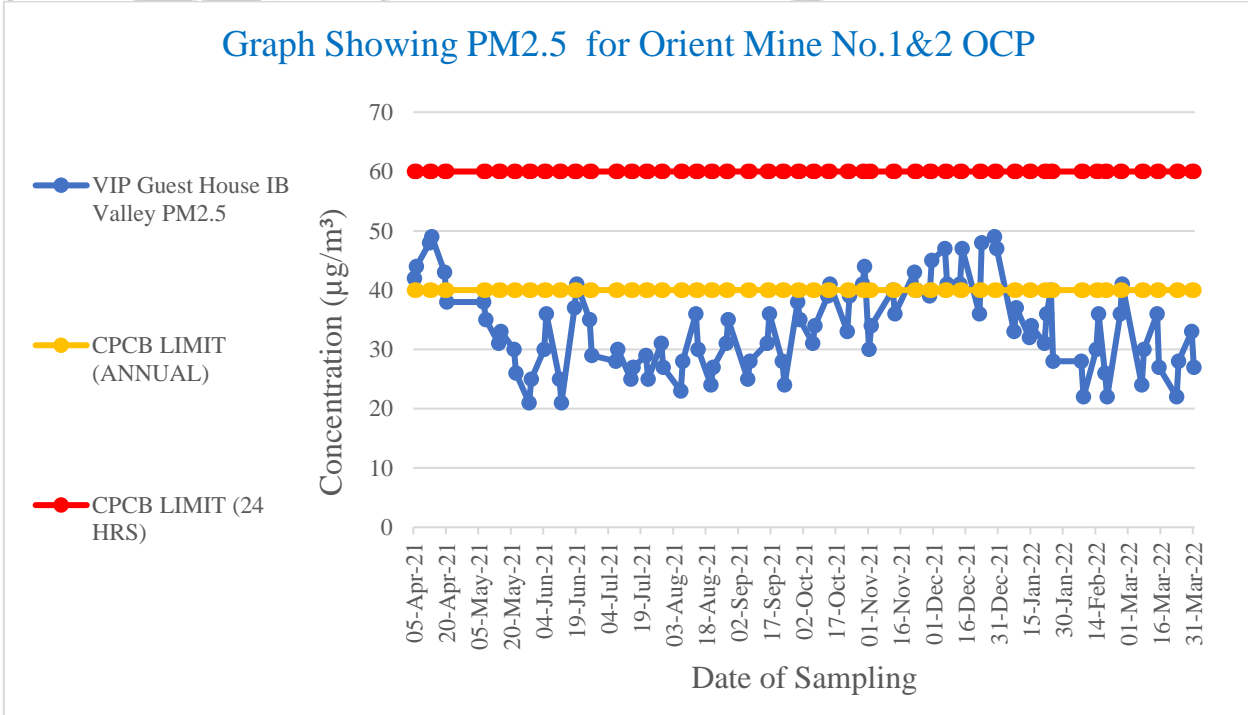
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JOB NO.750001

Graph Showing PM10 for Orient Mine No.1&2 OCP



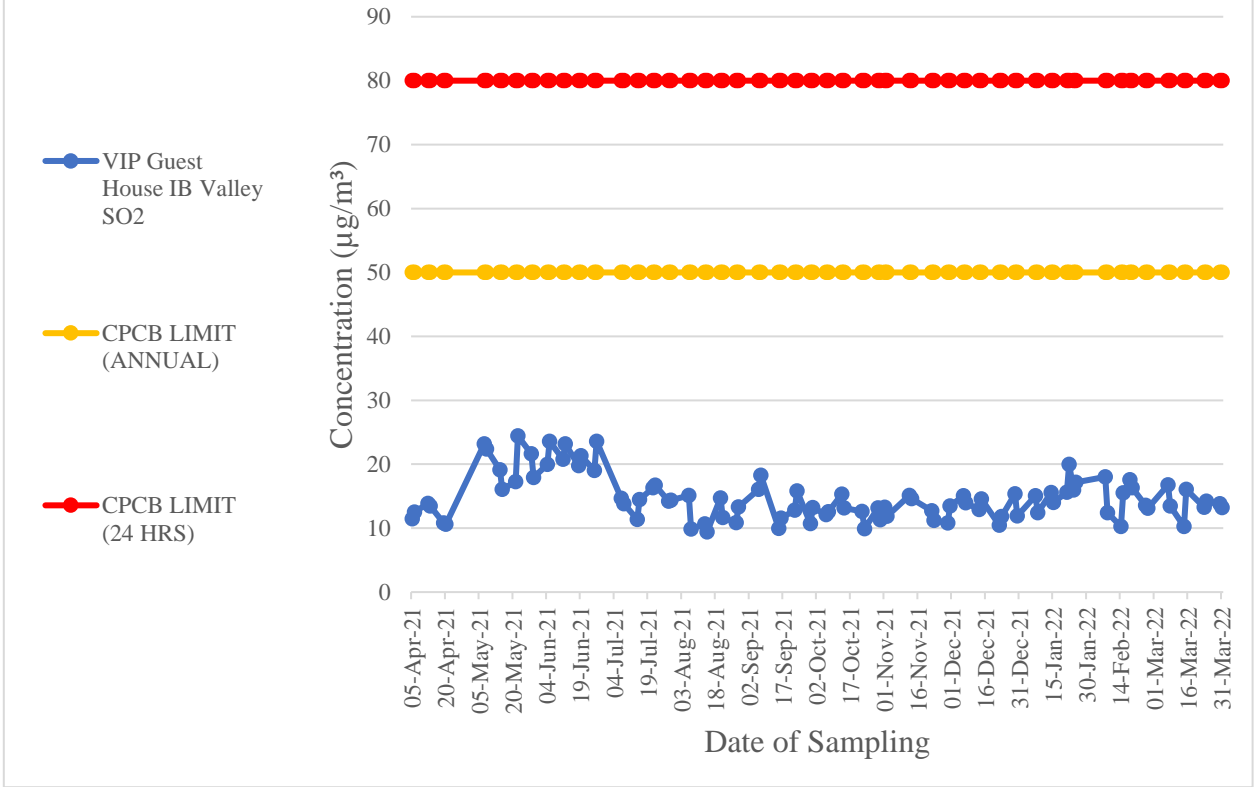
Graph Showing PM2.5 for Orient Mine No.1&2 OCP



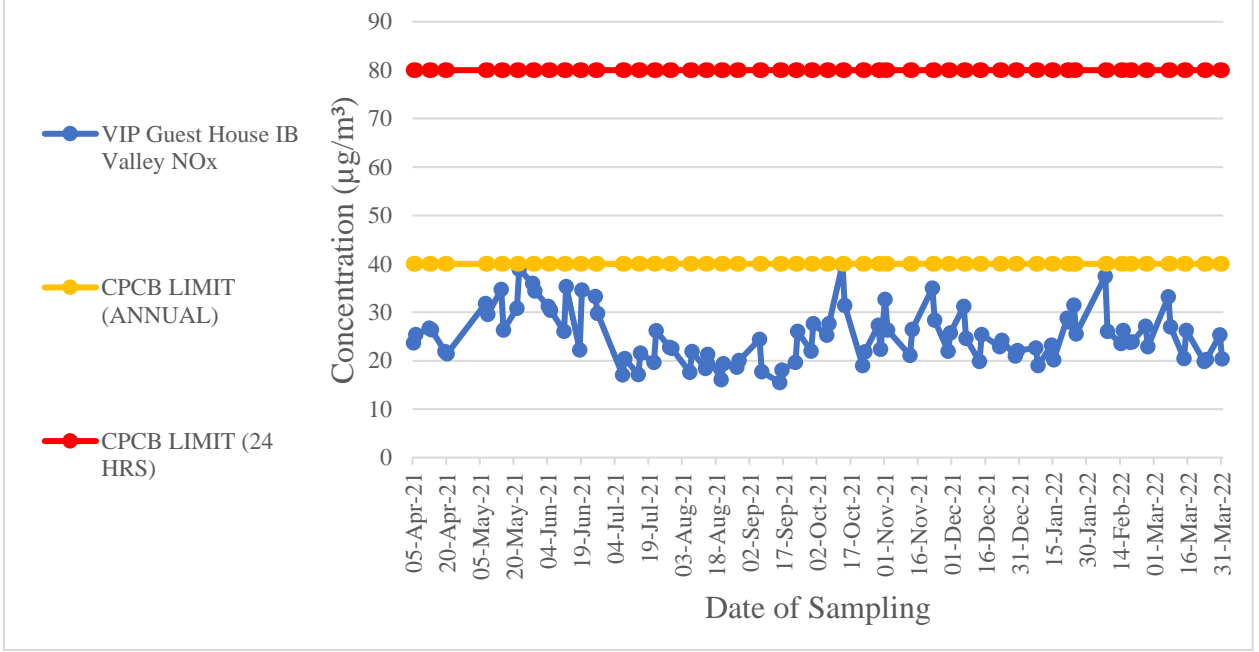
PREPARED BY: CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD., RI VII, BHUBANESWAR

JOB NO.750001

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



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



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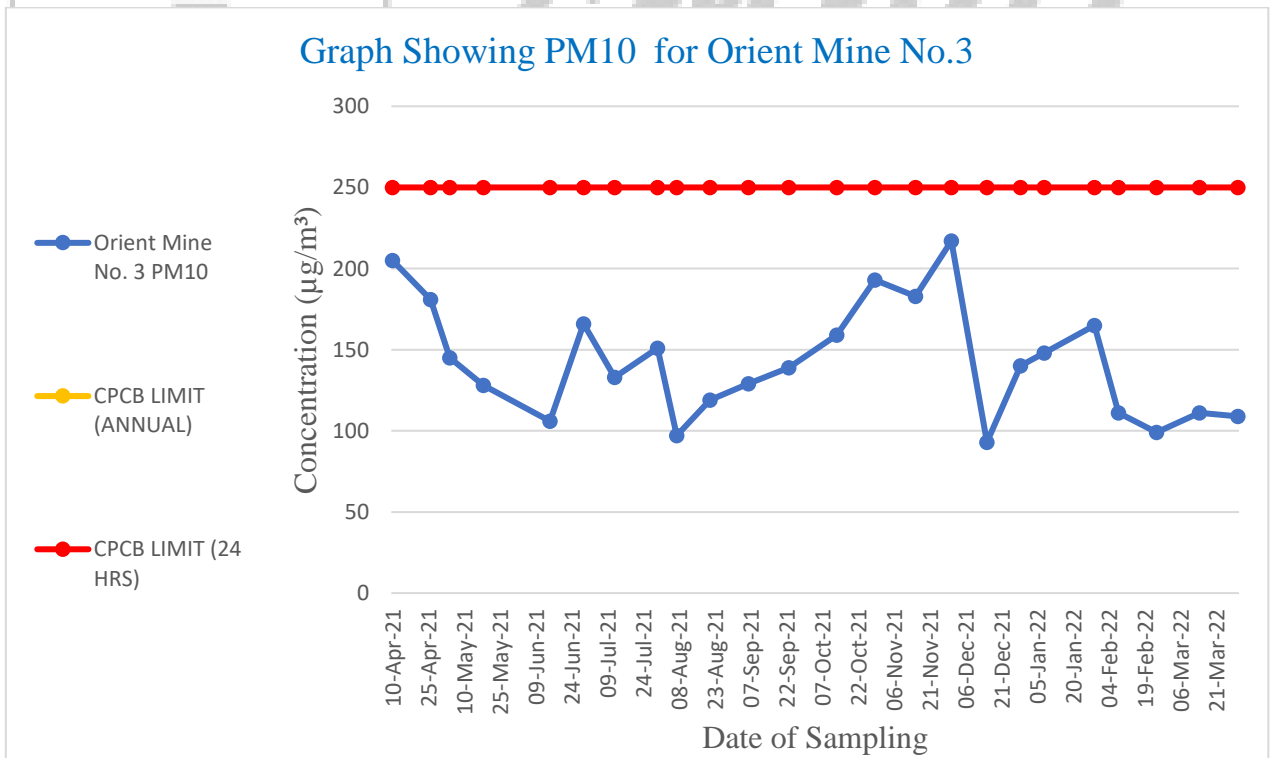
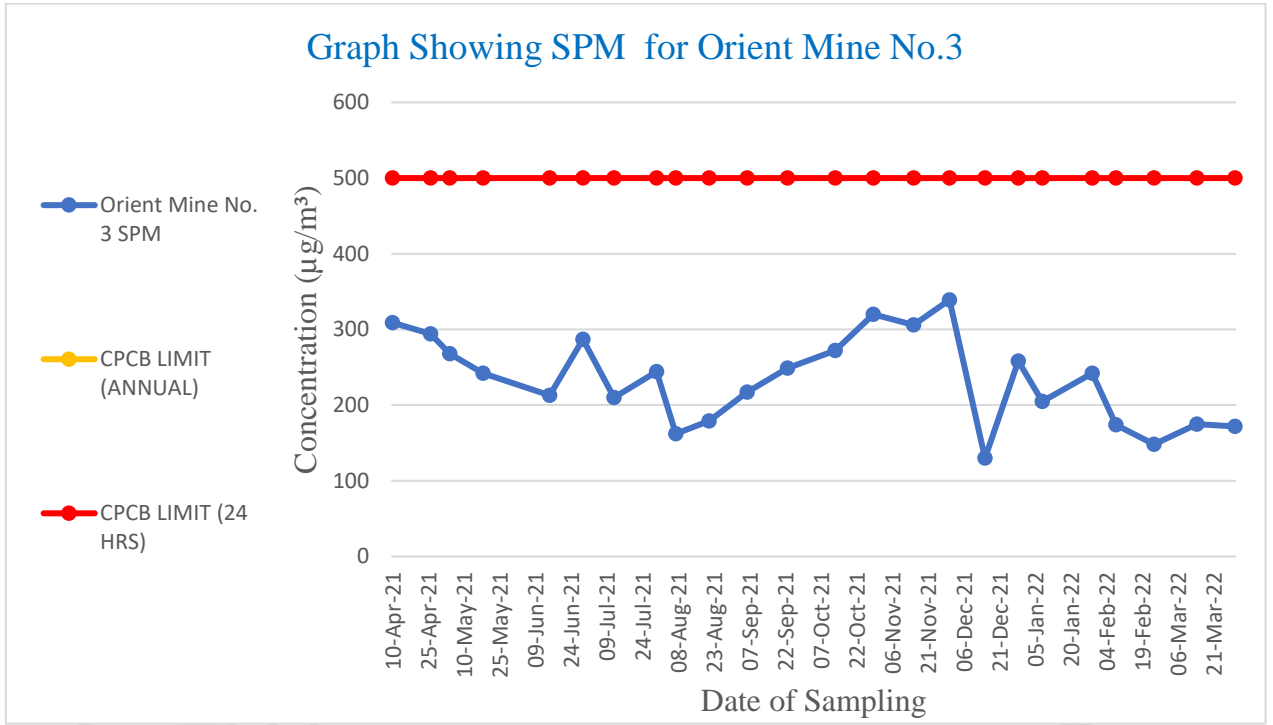
Table: 7.35

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

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
10-Apr-21	309	205	52	14.12	28.65
26-Apr-21	294	181	48	16.83	31.57
04-May-21	268	145	46	17.87	30.67
18-May-21	242	128	39	22.64	39.65
15-Jun-21	213	106	39	25.09	40.93
29-Jun-21	287	166	50	21.42	25.24
12-Jul-21	210	133	42	16.99	22.65
30-Jul-21	244	151	47	15.48	21.5
07-Aug-21	162	97	40	8.3	18.83
21-Aug-21	179	119	44	10.43	14.87
06-Sep-21	217	129	41	15.09	20.28
23-Sep-21	249	139	47	12.36	21.82
13-Oct-21	272	159	49	14.32	28.99
29-Oct-21	320	193	56	10.78	24.72
15-Nov-21	306	183	63	14.33	21.95
30-Nov-21	339	217	68	11.23	24.93
15-Dec-21	130	93	43	17.1	26.46
29-Dec-21	258	140	48	14.11	21.73
08-Jan-22	205	148	46	14.62	21.1
29-Jan-22	242	165	50	14.99	23.78
08-Feb-22	174	111	40	13.05	30.98
24-Feb-22	148	99	37	12.8	30.49
14-Mar-22	175	111	44	11.61	23.41
30-Mar-22	172	109	47	14.23	27.29
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	339	217	68	25.09	40.93
Minimum	130	93	37	8.3	14.87
Average	234.0	142.8	46.9	15.0	25.9
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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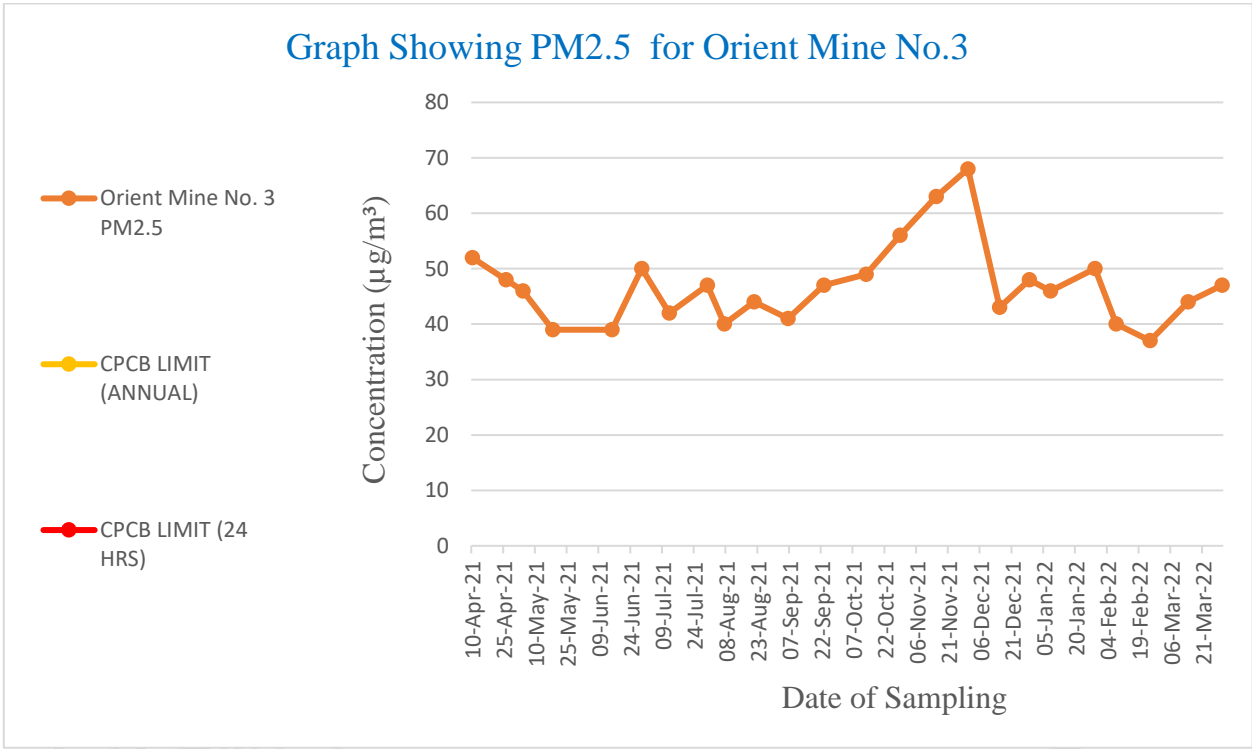
JOB NO.750001



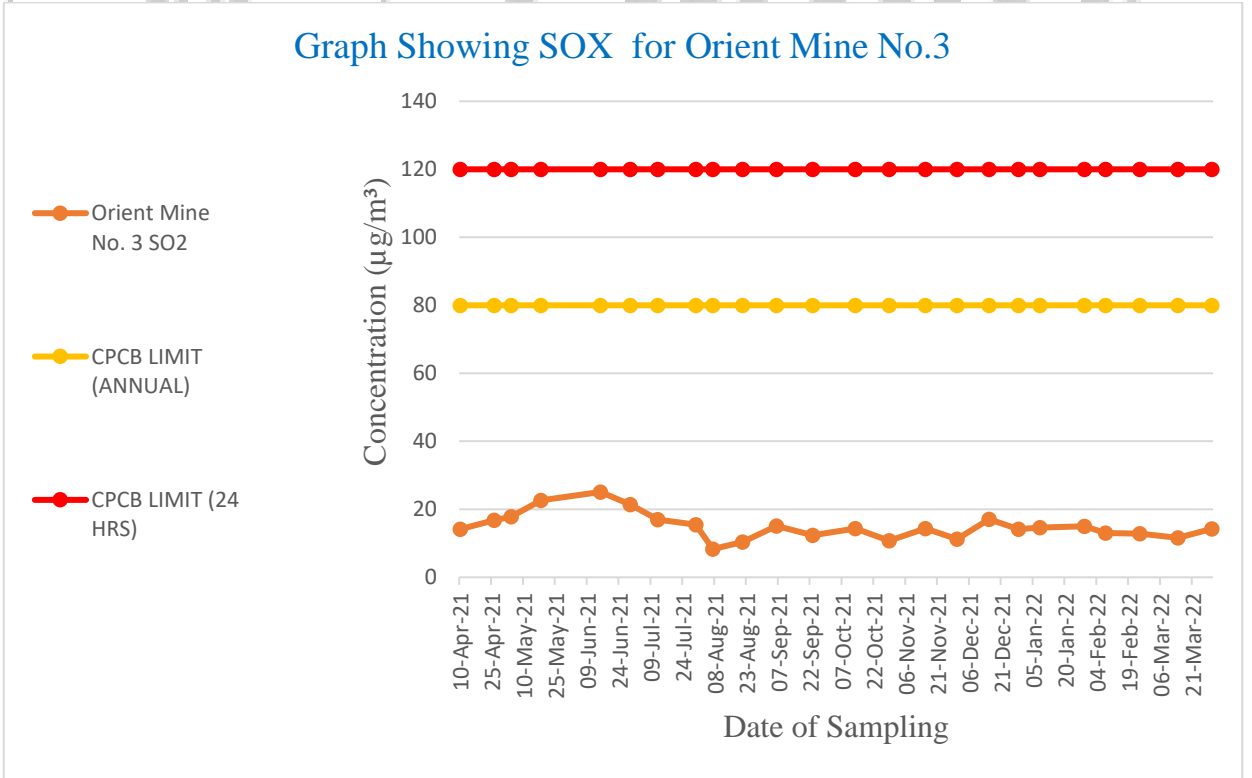
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Graph Showing PM2.5 for Orient Mine No.3

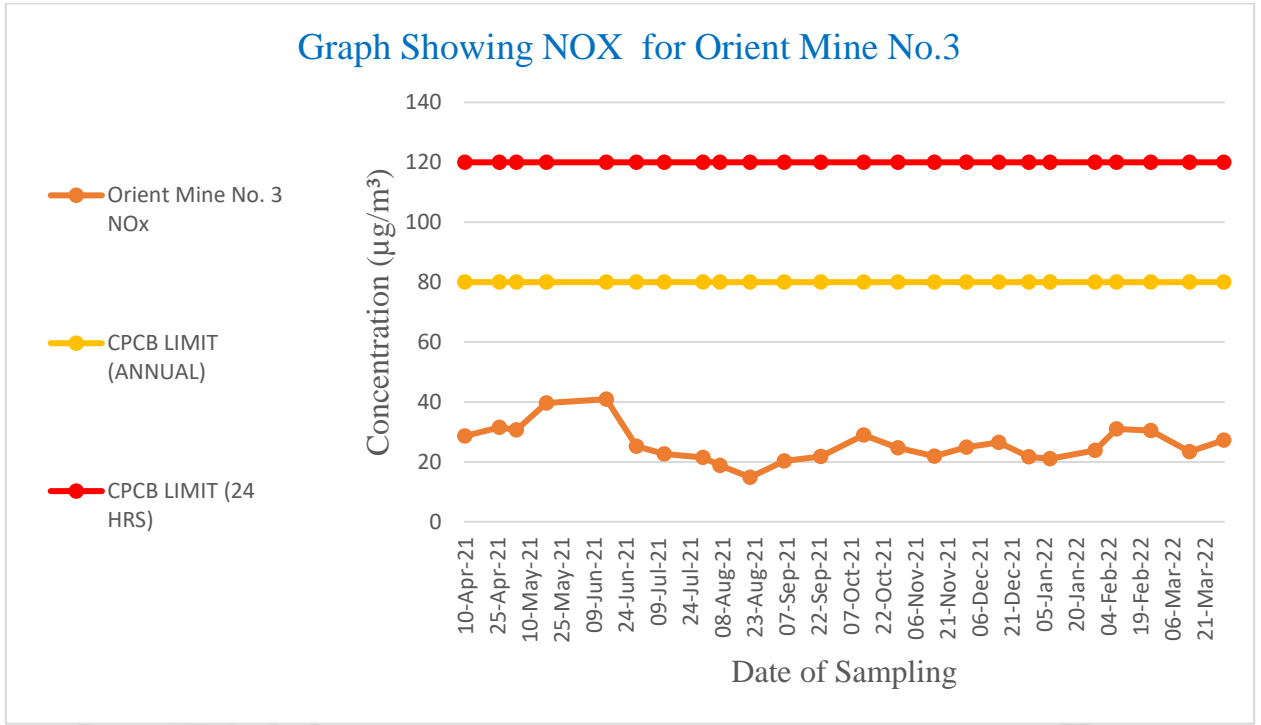


Graph Showing SOX for Orient Mine No.3



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Table: 7.36

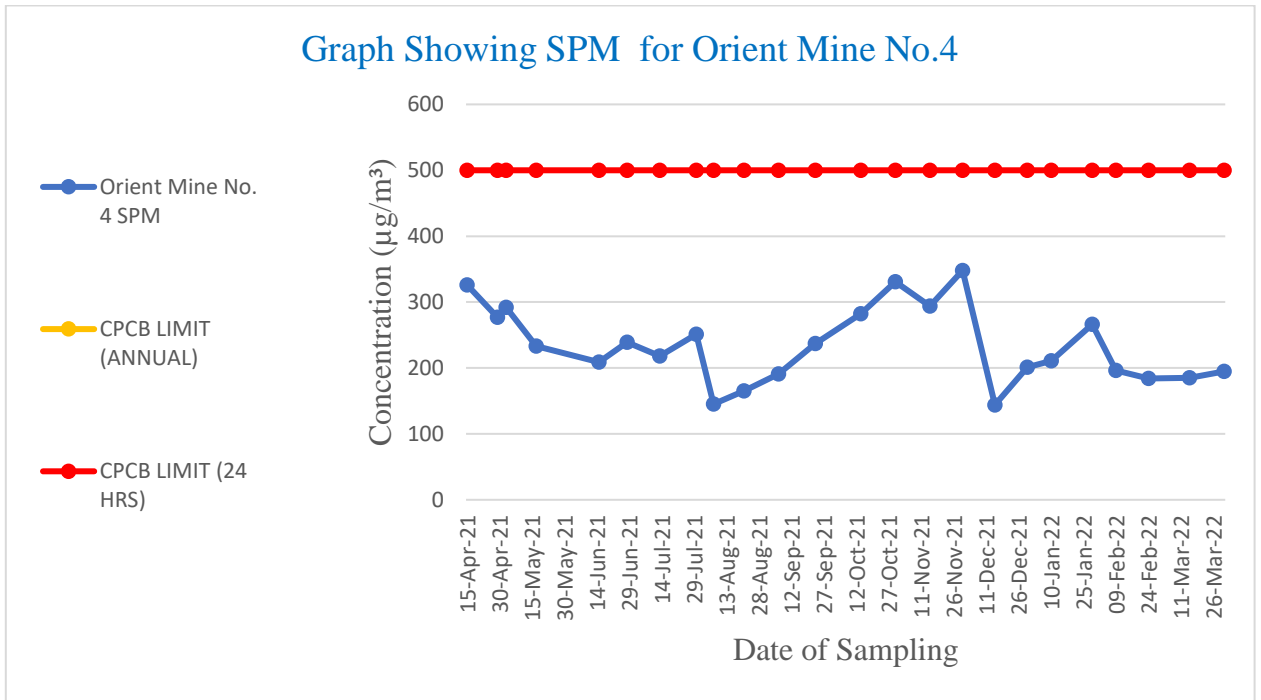
Area: Orient**Project:** Orient Mine No. 4**Monitoring Station:** Orient Mine No. 4

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
15-Apr-21	326	179	45	15.73	29.47
29-Apr-21	277	159	57	14.35	28.16
03-May-21	292	163	49	22.58	33.79
17-May-21	233	121	40	18.25	35.03
15-Jun-21	209	119	43	25.42	39.12
28-Jun-21	239	147	47	15.47	26.04
13-Jul-21	218	120	36	14.9	18.12
30-Jul-21	251	143	44	16.44	20.76
07-Aug-21	145	89	38	10.71	20.46
21-Aug-21	165	123	36	11.19	17.92
06-Sep-21	191	109	38	11.4	16.11
23-Sep-21	237	119	44	14.47	23.06
14-Oct-21	282	168	52	17.33	37.42
30-Oct-21	331	207	63	12.86	28.27
15-Nov-21	294	188	59	17.09	30.25
30-Nov-21	348	227	71	13.3	31.94
15-Dec-21	144	97	45	18.36	31.67
30-Dec-21	201	80	48	10.37	25.53
10-Jan-22	211	152	49	14.35	25.88
29-Jan-22	266	172	55	15.76	22.29
09-Feb-22	196	122	45	16.63	29.49
24-Feb-22	184	143	50	14.25	29.46
15-Mar-22	185	132	40	17.76	23.79
31-Mar-22	195	133	56	15.23	28.69
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	348	227	71	25.42	39.12
Minimum	144	80	36	10.37	16.11
Average	234.2	142.2	47.9	15.6	27.2
Standard 24 hr	500	250		120	120
Standard Annual				80	80

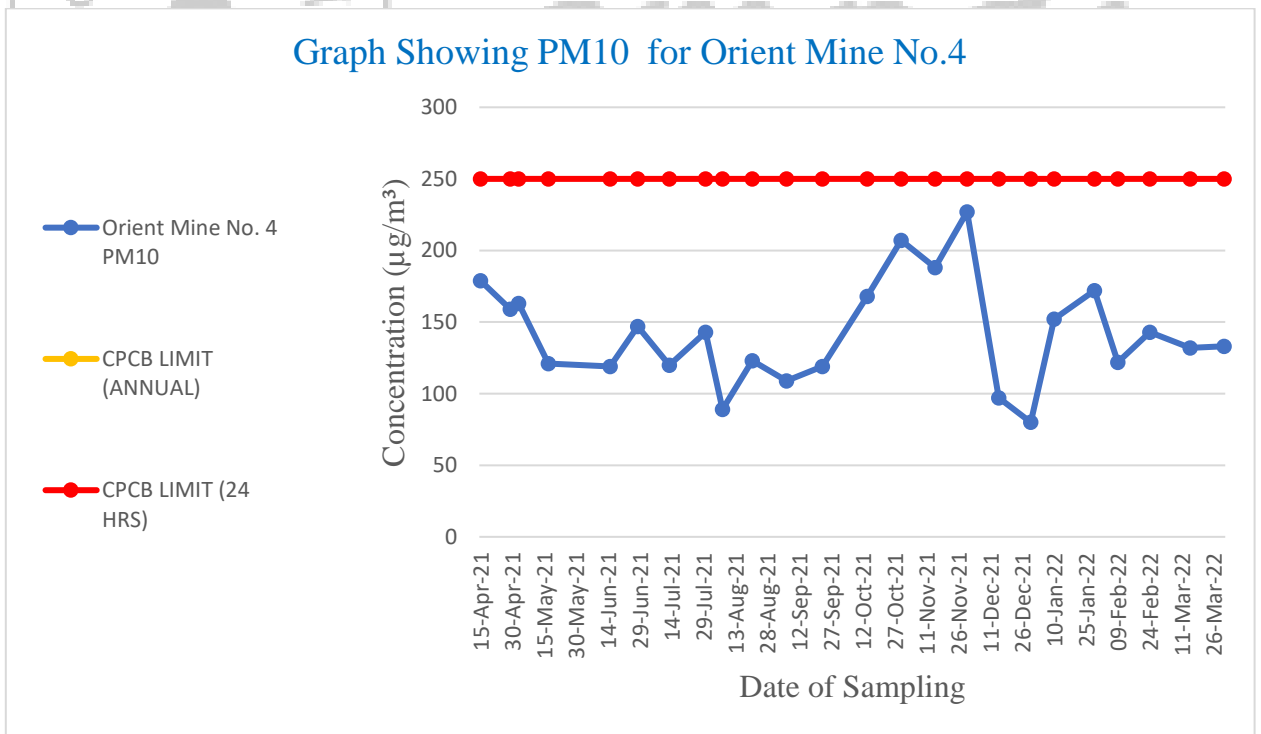
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Graph Showing SPM for Orient Mine No.4



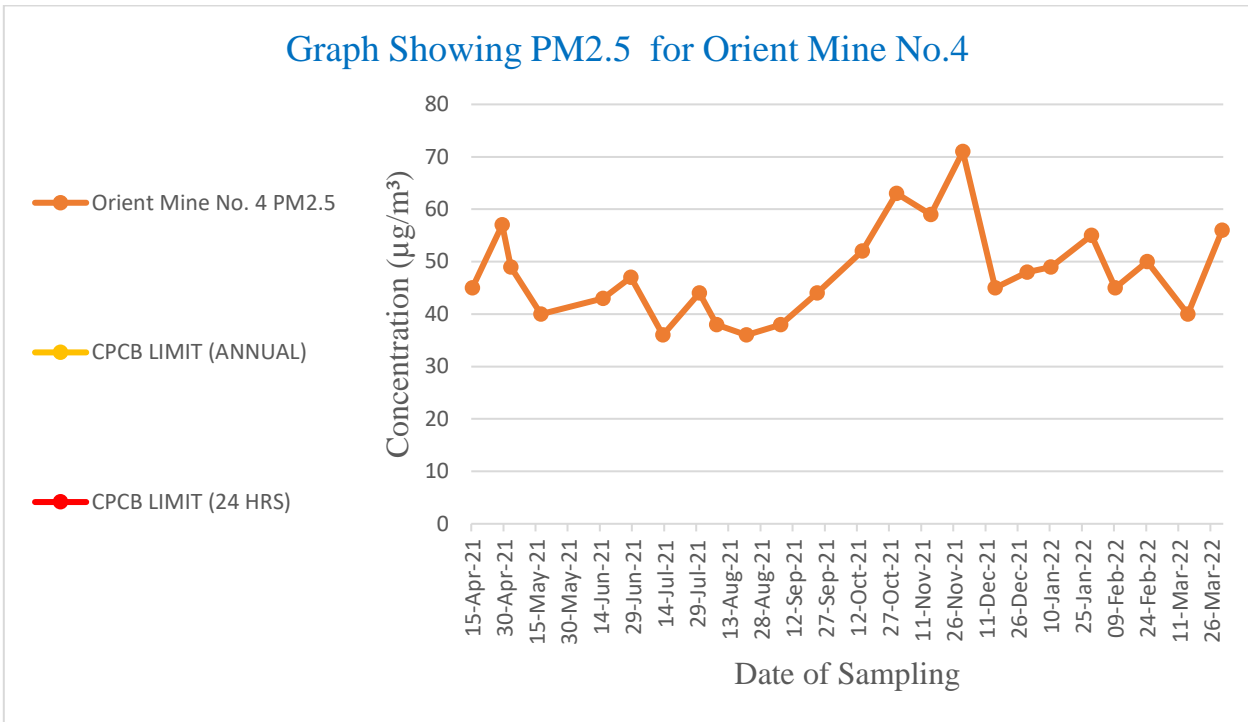
Graph Showing PM10 for Orient Mine No.4



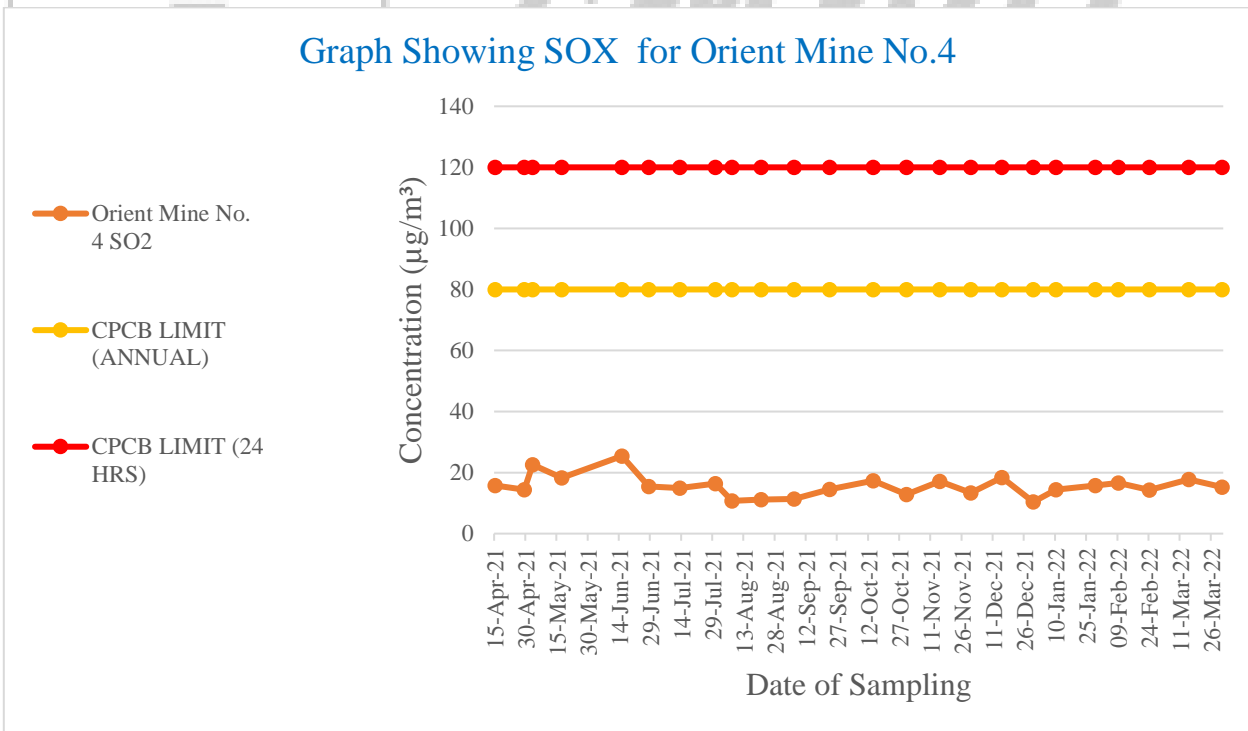
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JOB NO.750001

Graph Showing PM2.5 for Orient Mine No.4



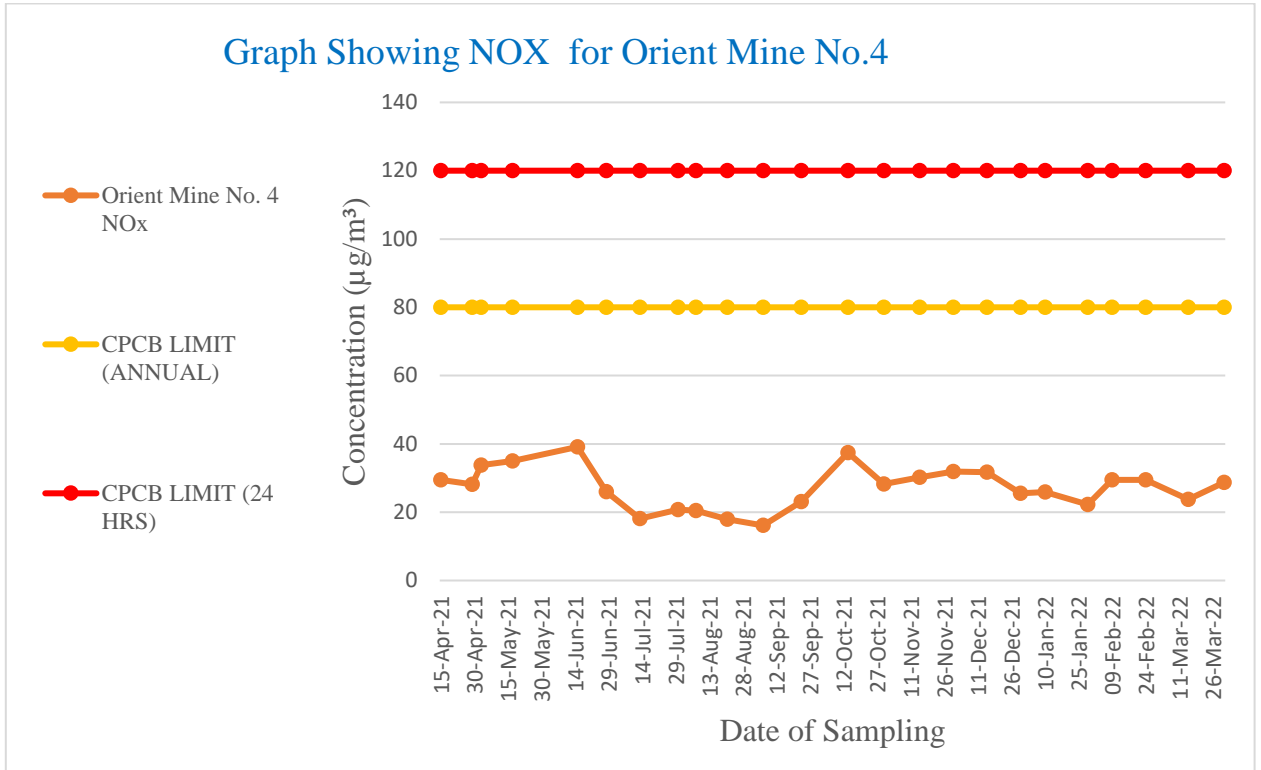
Graph Showing SOX for Orient Mine No.4



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Graph Showing NOX for Orient Mine No.4



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Table: 7.37

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** Bundia Colony Pump House

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
13-Apr-21	239	126	49	11.35	23.57
27-Apr-21	198	113	47	13.49	29.71
06-May-21	216	139	41	24.55	30.7
20-May-21	151	94	32	22.7	38.47
15-Jun-21	192	101	37	24.08	35.54
28-Jun-21	213	131	39	20.82	37.1
14-Jul-21	175	106	31	11.85	26.34
30-Jul-21	193	127	36	10.62	25.88
14-Aug-21	92	50	25	12.14	15.86
28-Aug-21	121	79	36	10.6	22.24
10-Sep-21	87	41	23	13.04	13.7
27-Sep-21	198	109	38	9.36	23.14
14-Oct-21	192	120	42	13.13	26.45
30-Oct-21	229	143	45	15.24	20.95
15-Nov-21	259	161	40	14.17	25.96
29-Nov-21	261	173	44	10.96	30.52
15-Dec-21	180	124	44	15.4	27.96
30-Dec-21	285	166	51	13.65	24.6
08-Jan-22	210	156	47	16.63	21.54
29-Jan-22	195	136	42	16.57	23
08-Feb-22	201	128	50	15.58	29.55
24-Feb-22	159	115	34	14.02	27.21
15-Mar-22	191	130	53	17.35	29.39
31-Mar-22	170	125	40	13.08	27.3
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	285	173	53	24.55	38.47
Minimum	87	41	23	9.36	13.7
Average	192.0	120.5	40.3	15.0	26.5
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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Table: 7.38

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** HBI Mine

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
13-Apr-21	364	209	64	16.81	31.52
26-Apr-21	332	198	63	18.72	37.64
05-May-21	317	187	49	23.76	39.67
19-May-21	253	140	43	20.52	32.08
15-Jun-21	263	149	52	17.22	30.76
28-Jun-21	306	173	48	16.1	30.8
14-Jul-21	238	129	43	12.27	15.98
30-Jul-21	269	158	49	16.21	22.19
14-Aug-21	134	77	36	9.54	16.53
28-Aug-21	197	116	42	12.74	19.87
10-Sep-21	90	50	41	9.92	16.82
27-Sep-21	259	129	50	13.69	17.69
14-Oct-21	296	173	55	18.28	30.5
30-Oct-21	357	216	64	13.26	23.08
15-Nov-21	318	200	63	16.09	28.72
29-Nov-21	379	234	75	11.07	27.97
15-Dec-21	230	192	65	17.48	26.01
29-Dec-21	231	145	52	11.03	25.84
08-Jan-22	241	166	55	13.4	28.19
29-Jan-22	225	146	44	16.27	18.12
08-Feb-22	225	145	59	14.36	28.18
24-Feb-22	176	133	45	16.87	30.28
14-Mar-22	160	120	37	13.84	26.02
30-Mar-22	169	112	40	14.23	29.21
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	379	234	75	23.76	39.67
Minimum	90	50	36	9.54	15.98
Average	251.2	154.0	51.4	15.2	26.4
Standard 24 hr	500	250		120	120
Standard Annual				80	80

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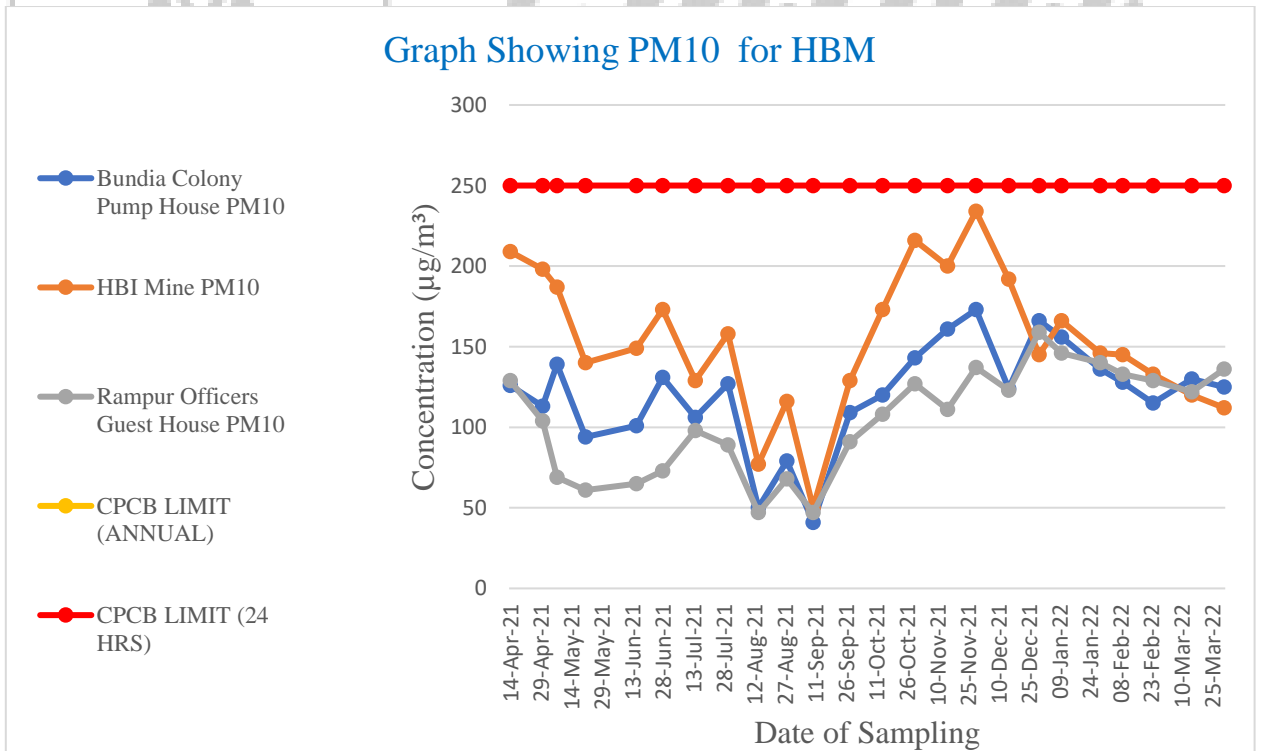
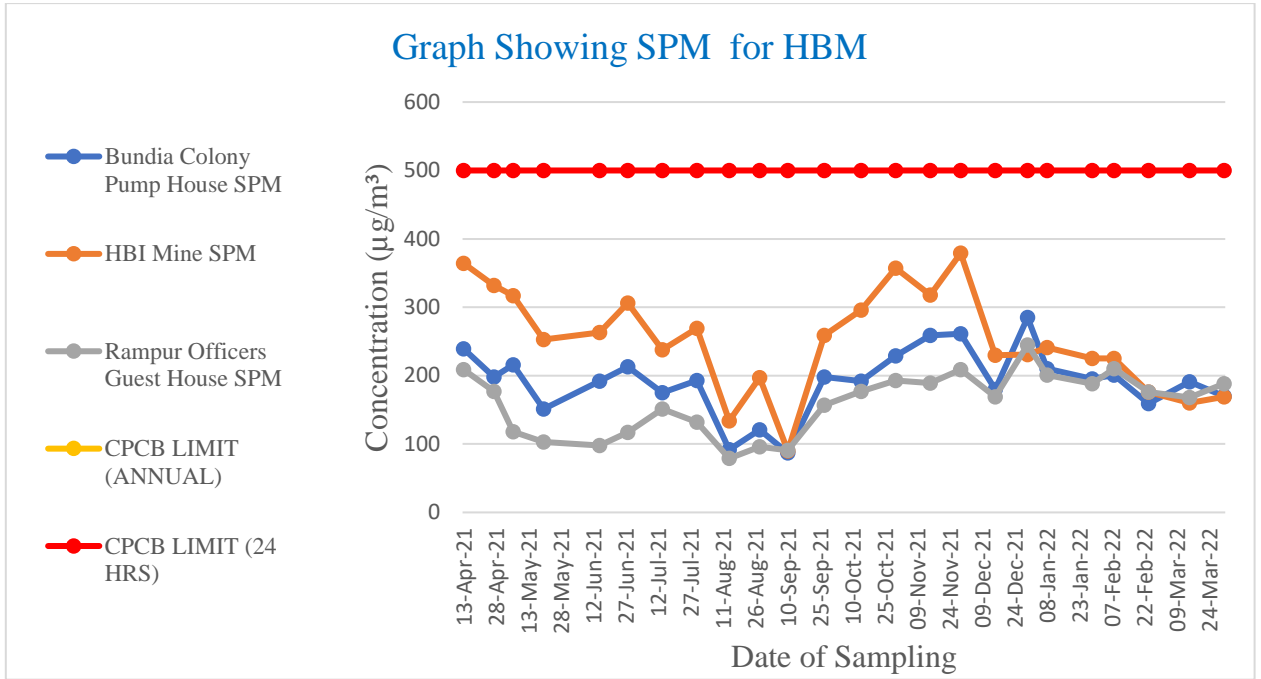
Table: 7.39

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** Rampur Officers Guest House

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
14-Apr-21	209	129	48	11.1	22.68
30-Apr-21	177	104	46	11.8	20.93
07-May-21	118	69	35	18.8	34.24
21-May-21	103	61	30	20.8	28.98
15-Jun-21	98	65	29	31.8	39.05
28-Jun-21	117	73	37	23.2	33.03
14-Jul-21	151	98	30	15	21.36
30-Jul-21	132	89	28	12.5	18.81
14-Aug-21	79	47	28	9.04	20.93
28-Aug-21	96	68	32	13.6	23.42
10-Sep-21	91	47	28	10.9	20.28
28-Sep-21	157	91	34	12.3	25.23
14-Oct-21	177	108	37	10.3	22.69
30-Oct-21	193	127	41	12.7	28.43
15-Nov-21	189	111	35	16.4	36.32
29-Nov-21	209	137	41	10.8	26.6
15-Dec-21	169	123	47	19.8	33.97
30-Dec-21	245	159	53	17.3	29.14
10-Jan-22	201	146	50	17.3	21.92
29-Jan-22	188	140	46	16.9	28.27
09-Feb-22	210	133	55	11.3	29.02
24-Feb-22	176	129	36	18	31.06
15-Mar-22	168	122	39	13.1	36.71
31-Mar-22	188	136	44	13.3	26.32
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	245	159	55	31.8	39.05
Minimum	79	47	28	9.04	18.81
Average	160.0	104.7	38.7	15.3	27.5
Standard 24 hr	500	250		120	120
Standard Annual				80	80

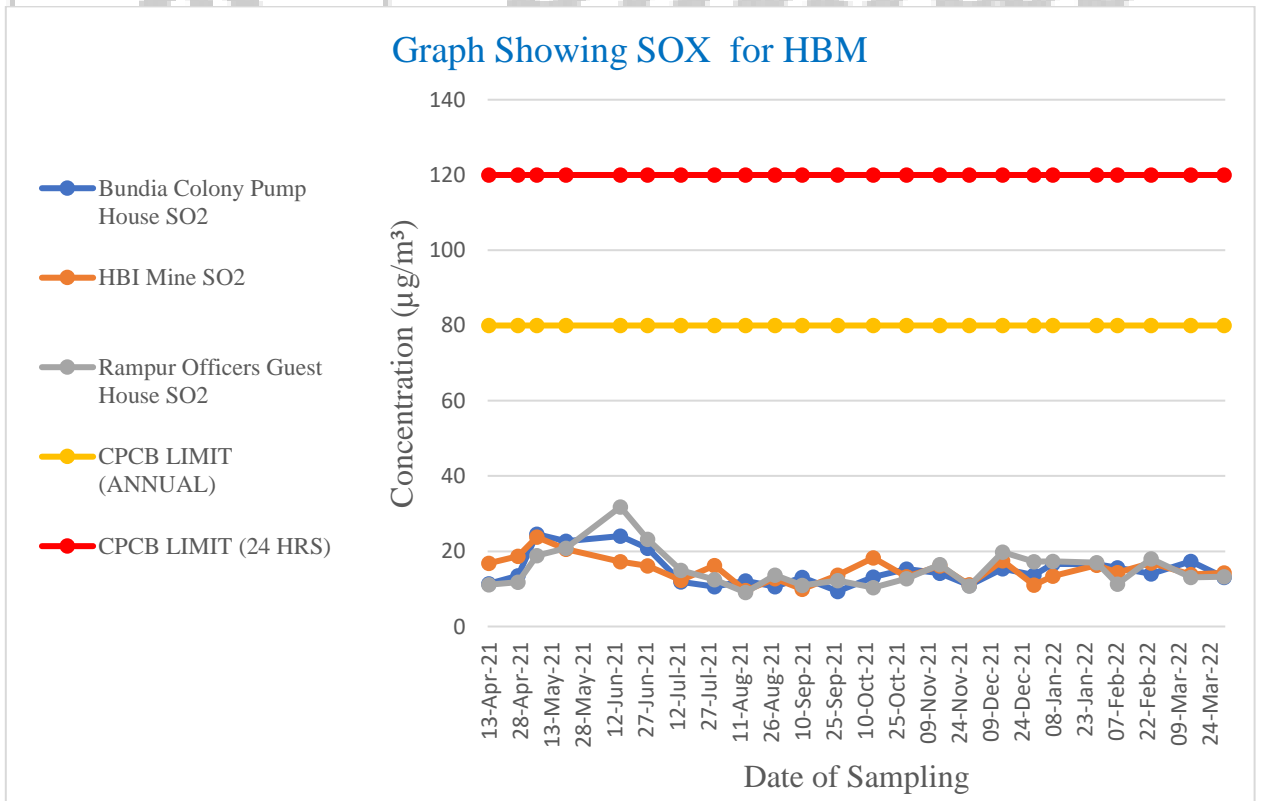
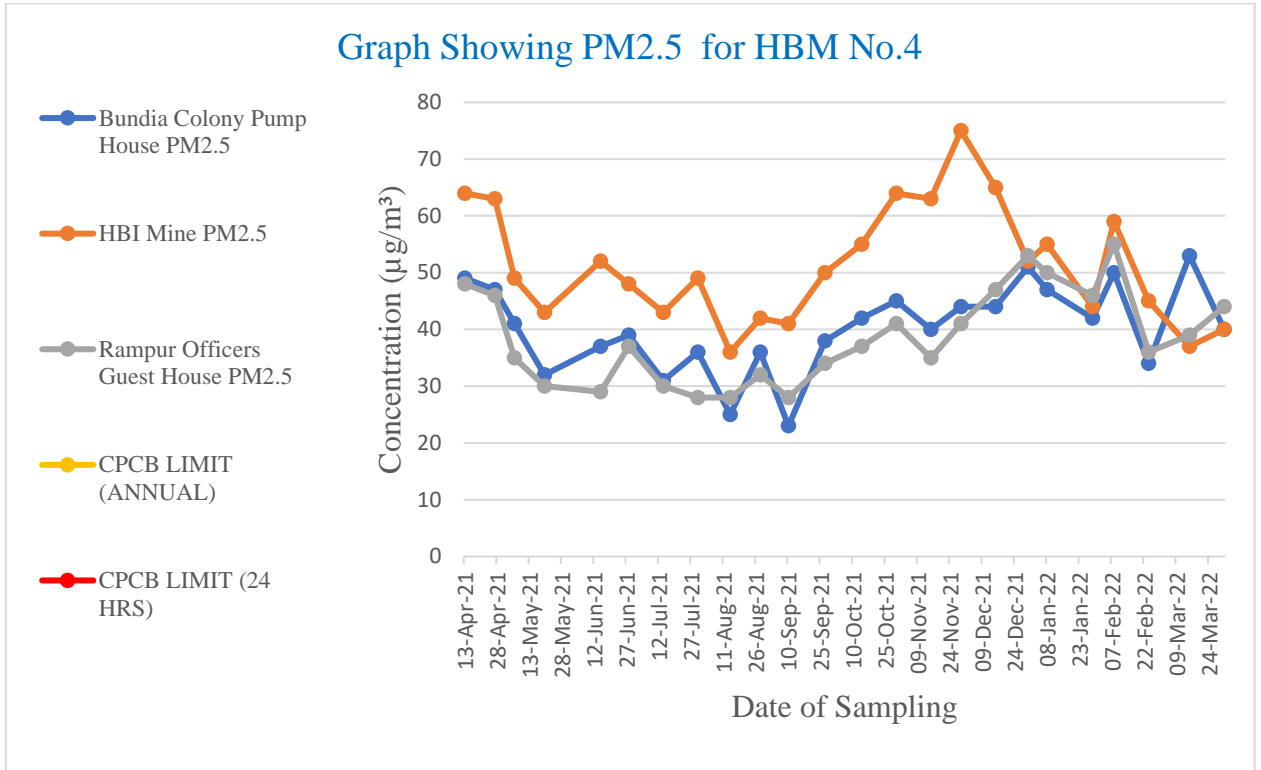
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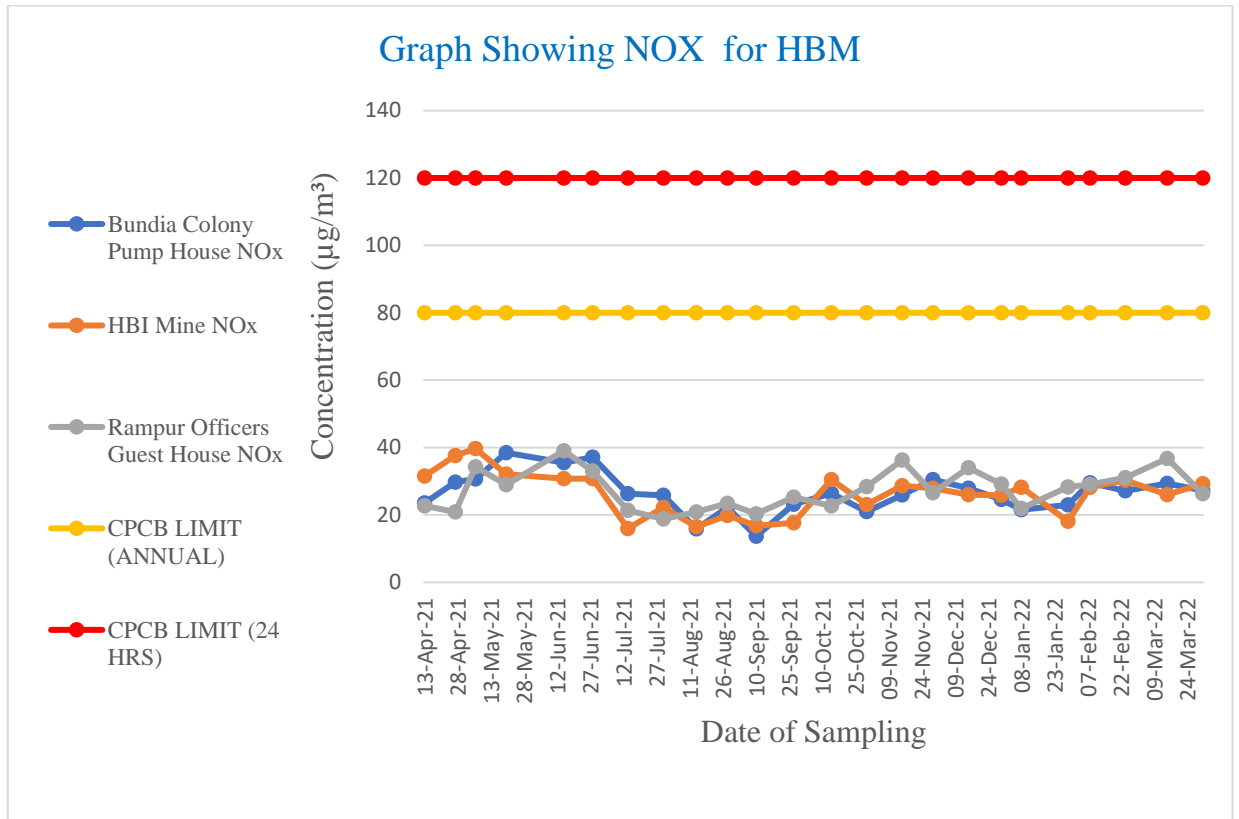
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Table: 7.40

Area: Orient**Project:** Hirakand Bundia Mine (HBM)**Monitoring Station:** Rampur Sub Area

Date of Sampling	SPM	PM10	PM2.5	SO2	NOx
01-Jul-21	153	81	46	10.26	13.44
02-Jul-21	144	76	41	11.97	17.96
09-Jul-21	121	70	37	10.9	20.44
10-Jul-21	107	66	30	9.42	14.72
16-Jul-21	115	62	34	8.84	23.87
17-Jul-21	102	53	30	12.05	16.31
23-Jul-21	108	70	33	8.99	18.74
24-Jul-21	114	66	29	10.29	17.46
06-Aug-21	97	60	25	9.77	14.3
07-Aug-21	117	69	29	10.38	19.43
13-Aug-21	101	53	23	12.69	17.48
14-Aug-21	98	59	27	9.42	13.79
20-Aug-21	103	64	30	9.95	17.21
21-Aug-21	99	50	29	10.56	16.83
27-Aug-21	139	82	36	11.22	16.67
28-Aug-21	154	79	32	7.89	18.37
06-Sep-21	102	61	30	14.6	20.63
07-Sep-21	83	50	27	16.38	21.06
15-Sep-21	113	70	34	11.58	16.16
16-Sep-21	129	75	37	9.11	16.9
22-Sep-21	114	70	28	10.26	25.37
23-Sep-21	123	61	31	13.32	16.88
29-Sep-21	151	79	39	16.11	20.71
30-Sep-21	143	73	36	16.66	29.42
06-Oct-21	103	63	33	12.44	16.83
07-Oct-21	97	52	28	10.9	25.58
13-Oct-21	128	77	39	15.54	19.83
14-Oct-21	137	80	41	10.1	30.34
22-Oct-21	113	76	39	11.51	21.23
23-Oct-21	129	85	41	11.03	23.67
29-Oct-21	120	83	47	10.27	22.5
30-Oct-21	114	77	45	9.41	20.41
01-Nov-21	103	66	35	6.86	18.35
02-Nov-21	123	76	39	12.37	14.88
12-Nov-21	141	80	43	9.98	20.84
13-Nov-21	153	86	46	14.23	21.55
22-Nov-21	149	78	43	10.09	18.79
23-Nov-21	140	89	46	9.12	16.13
29-Nov-21	161	84	40	11.08	19.09
30-Nov-21	147	81	44	10.36	21.23

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06-Dec-21	105	66	40	13.66	24.6
07-Dec-21	118	70	29	15.12	24.08
13-Dec-21	135	91	41	18.79	20.26
14-Dec-21	105	65	45	15.77	19.74
22-Dec-21	134	91	44	10.98	23.92
23-Dec-21	151	87	42	14.17	23.94
29-Dec-21	125	86	45	11.98	25.58
30-Dec-21	236	89	43	14.09	17.7
07-Jan-22	155	88	36	13.01	23.66
08-Jan-22	163	90	32	16.32	20.02
14-Jan-22	140	96	35	9.74	19.17
15-Jan-22	164	81	30	13.83	15.61
21-Jan-22	145	71	30	16.41	19
22-Jan-22	150	82	34	15.17	25.85
24-Jan-22	166	77	40	11.57	27.83
25-Jan-22	178	84	37	14.56	22.41
07-Feb-22	155	85	33	12.36	18.93
08-Feb-22	145	80	26	14.37	16.4
14-Feb-22	136	75	30	18.84	24.32
15-Feb-22	166	90	37	16.35	23.6
18-Feb-22	137	96	33	11.98	20.45
19-Feb-22	149	83	28	13.94	24.29
25-Feb-22	139	87	34	10.42	21.79
26-Feb-22	126	80	30	12.74	20.72
07-Mar-22	120	60	22	13.46	25.12
08-Mar-22	145	72	30	15.8	19.39
14-Mar-22	150	88	36	20.15	25.51
15-Mar-22	133	63	26	16.22	23.74
23-Mar-22	126	80	32	10.56	19.89
24-Mar-22	120	77	28	11.05	21.45
30-Mar-22	121	70	22	10.23	18.23
31-Mar-22	133	75	33	17.56	28.63
07-Apr-21	185	78	44	17.4	36.12
08-Apr-21	196	73	49	17.89	36.59
14-Apr-21	178	77	47	16.73	35.75
15-Apr-21	198	85	51	18.27	37.64
21-Apr-21	134	65	37	13.81	25.67
22-Apr-21	149	74	39	13.24	25.16
27-Apr-21	186	86	44	12.73	24.51
28-Apr-21	174	90	49	15.26	29.73
03-May-21	167	78	45	22.52	34.88
04-May-21	146	71	42	16.13	32.1
10-May-21	121	64	39	23.44	25.35
11-May-21	100	52	35	25.47	33.78
17-May-21	114	67	37	24.25	28.3
18-May-21	108	68	33	24.97	28.01
24-May-21	92	57	29	18.21	23.91
25-May-21	98	55	30	16.34	35.11

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01-Jun-21	88	52	27	23.51	33.48
02-Jun-21	206	60	32	16.83	42.13
07-Jun-21	123	74	34	17.08	36.28
08-Jun-21	118	71	37	19.74	29.96
18-Jun-21	151	84	47	16.92	36.62
19-Jun-21	155	76	41	15.66	26.35
21-Jun-21	124	69	39	21.84	25.5
22-Jun-21	111	62	36	20.26	35.55
Basic Stats	SPM	PM10	PM2.5	SO2	NOx
Maximum	236	96	51	25.47	42.13
Minimum	83	50	22	6.86	13.44
Average	134.2	73.9	35.9	14.0	23.3
Standard 24 hr		100	60	80	80
Standard Annual		60	40	50	40

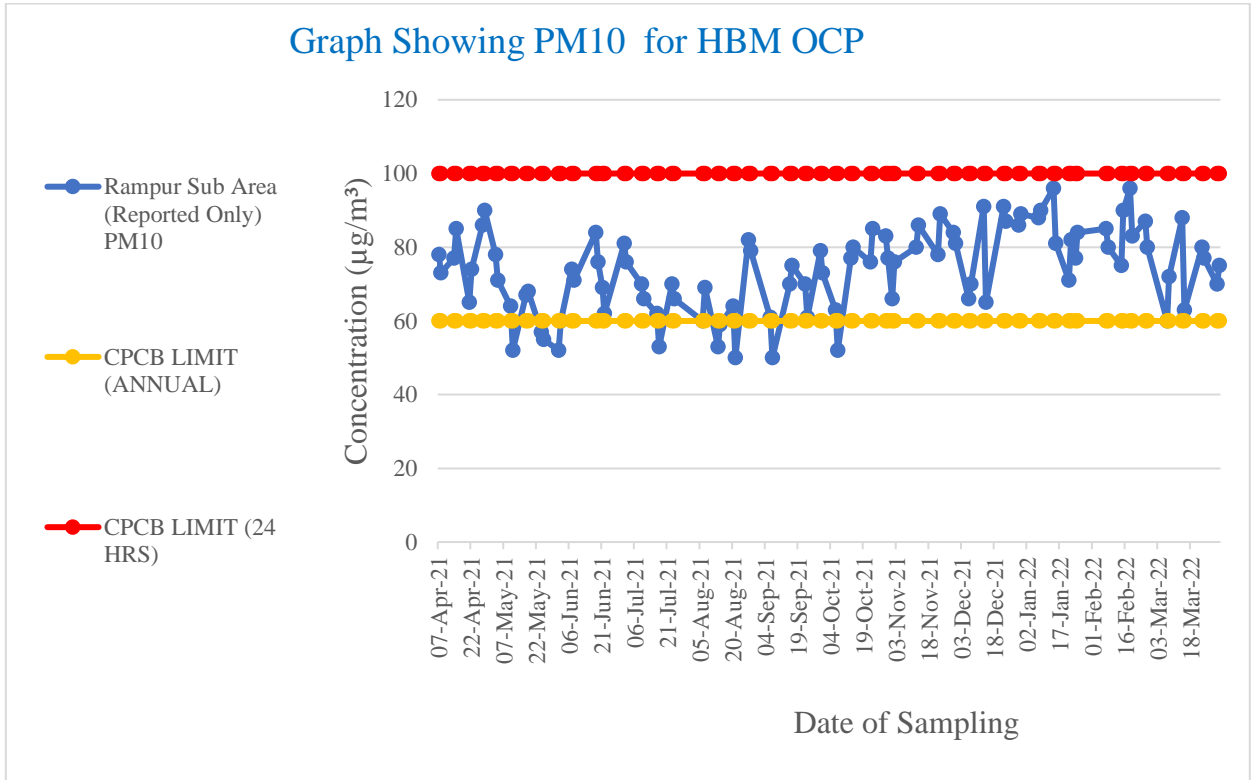


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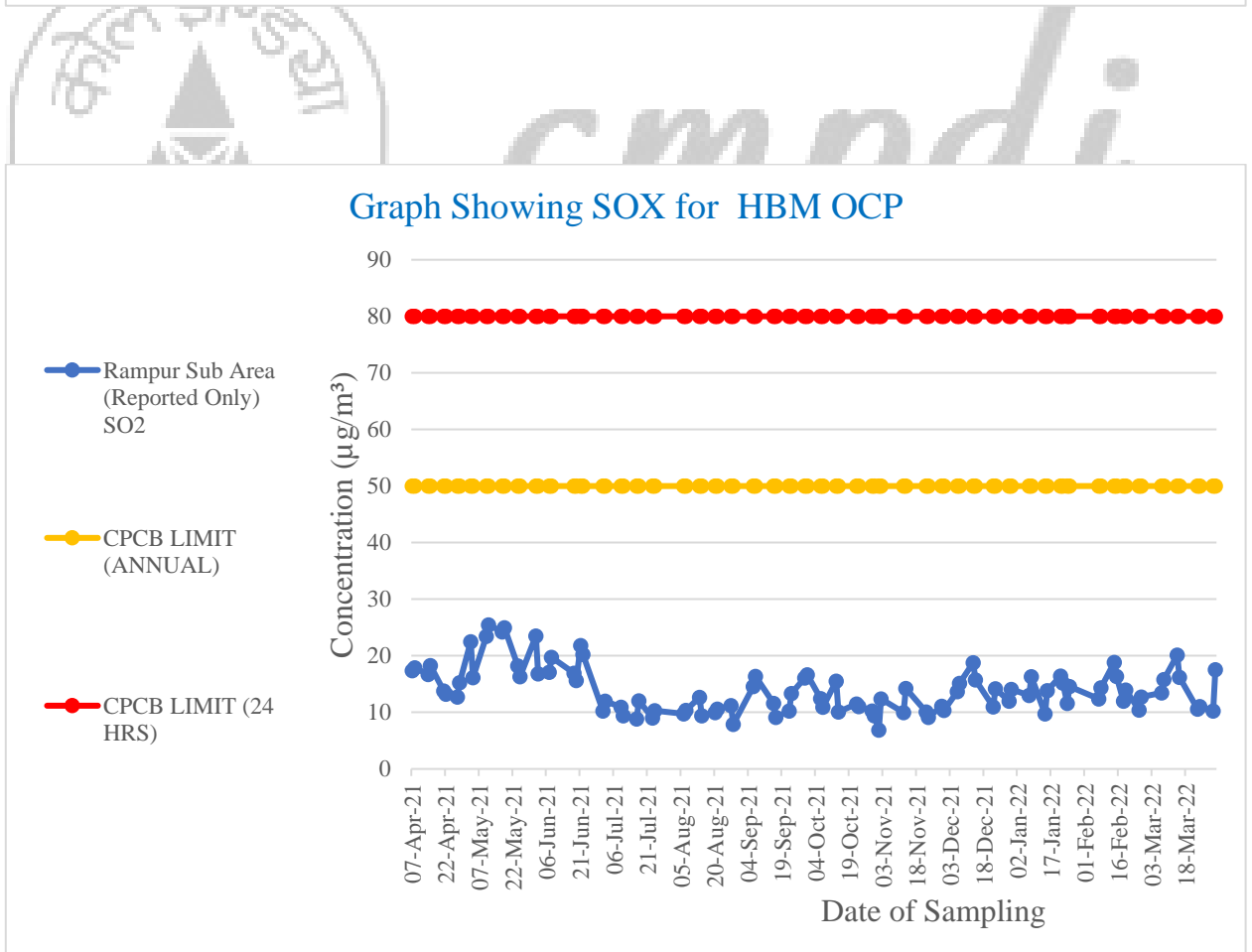
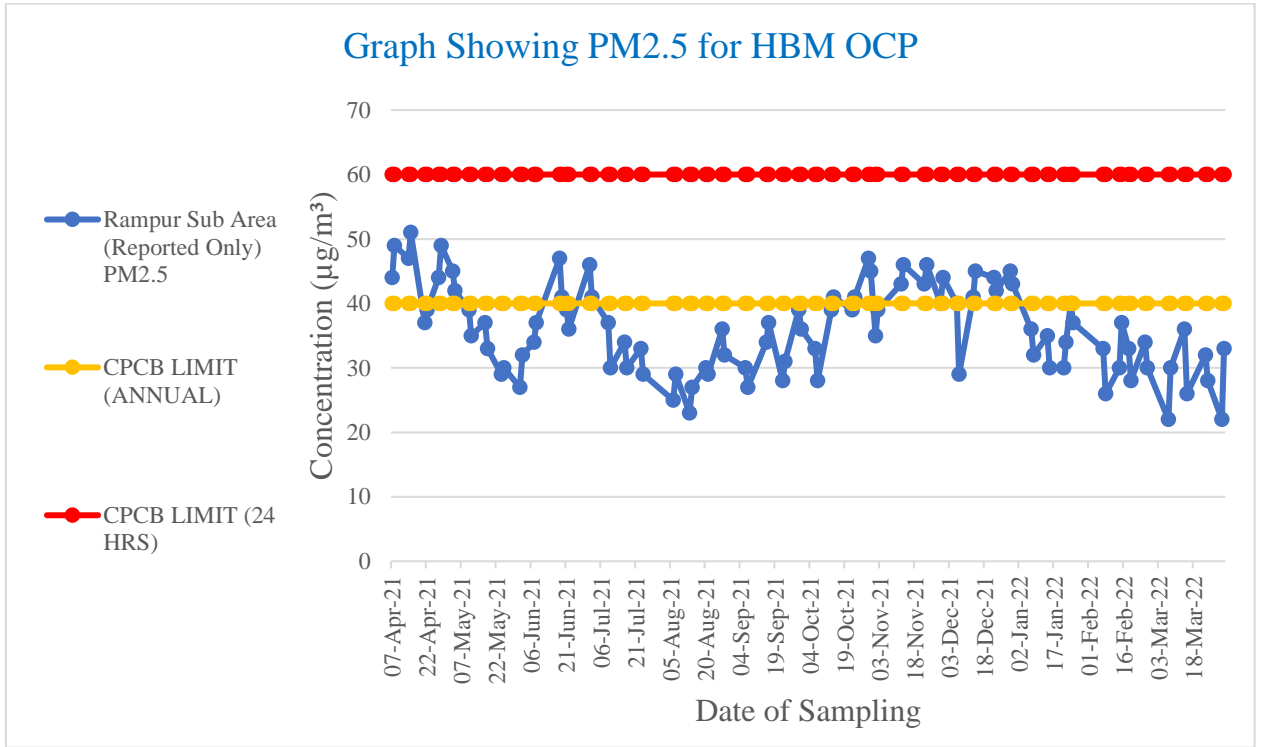
Graph Showing PM10 for HBM OCP



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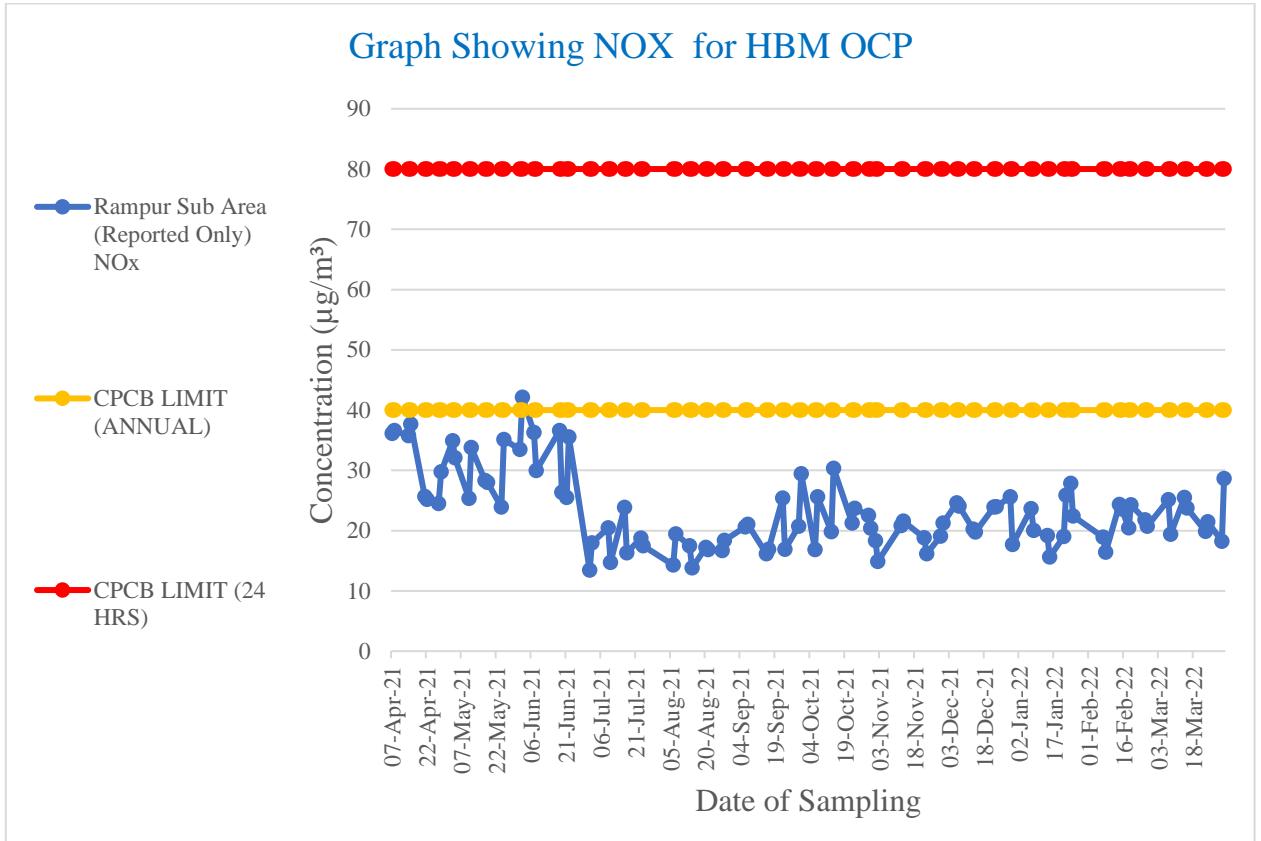
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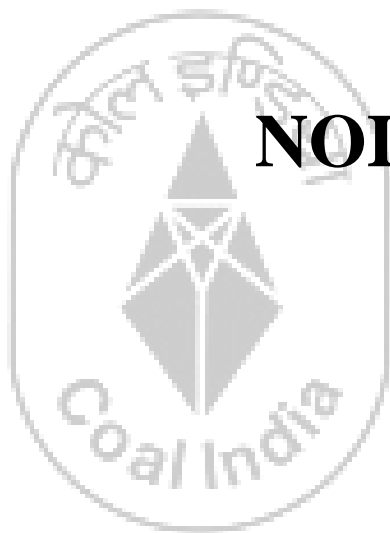
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NOISE QUALITY

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TABLE NO 8 FOR NOISE LEVEL MONITORING DATA

Table:8.1

Area: Ib Valley Area

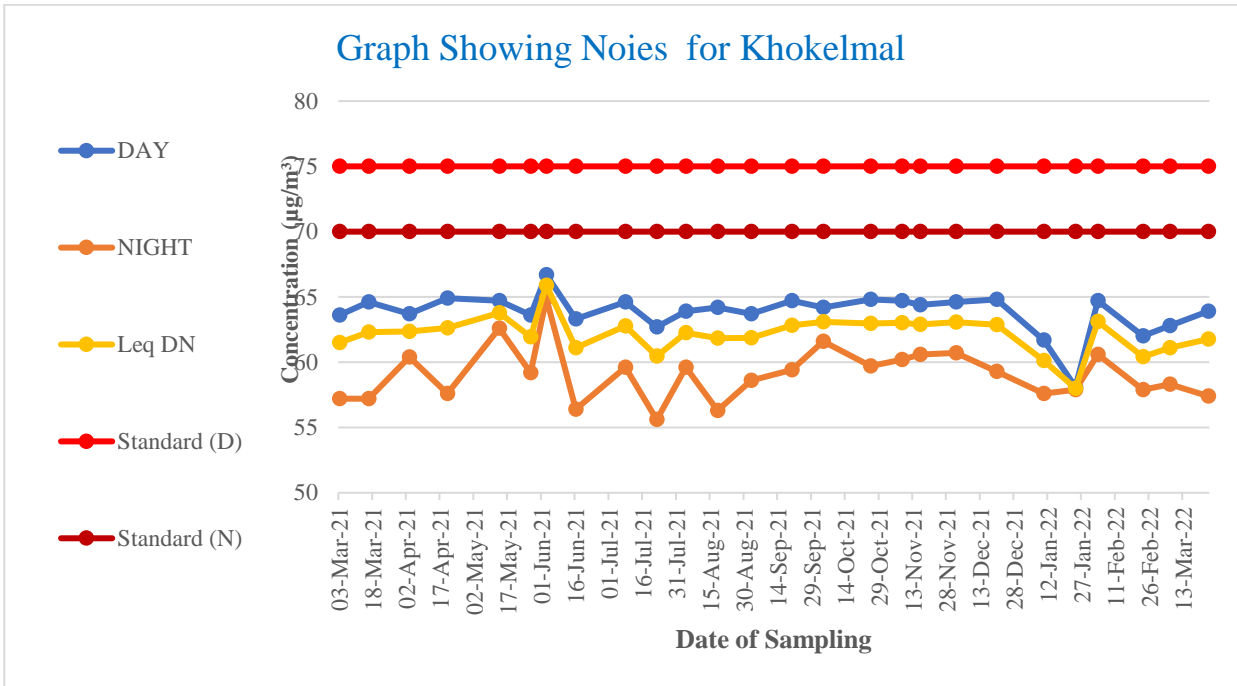
Project: Lajkura OCP

Monitoring Station: Khokelmal

DATE	DAY	NIGHT	Leq DN
03-Mar-21	63.6	57.2	61.5
16-Mar-21	64.6	57.2	62.3
03-Apr-21	63.7	60.4	62.4
20-Apr-21	64.9	57.6	62.6
13-May-21	64.7	62.6	63.8
27-May-21	63.6	59.2	61.9
03-Jun-21	66.7	64.9	65.9
16-Jun-21	63.3	56.4	61.1
08-Jul-21	64.6	59.6	62.8
22-Jul-21	62.7	55.6	60.5
04-Aug-21	63.9	59.6	62.3
18-Aug-21	64.2	56.3	61.8
02-Sep-21	63.7	58.6	61.9
20-Sep-21	64.7	59.4	62.8
04-Oct-21	64.2	61.6	63.1
25-Oct-21	64.8	59.7	63.0
08-Nov-21	64.7	60.2	63.0
16-Nov-21	64.4	60.6	62.9
02-Dec-21	64.6	60.7	63.1
20-Dec-21	64.8	59.3	62.9
10-Jan-22	61.7	57.6	60.1
24-Jan-22	58.1	57.9	58.0
03-Feb-22	64.7	60.6	63.1
23-Feb-22	62	57.9	60.4
07-Mar-22	62.8	58.3	61.1
24-Mar-22	63.9	57.4	61.8
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	58.1	55.6	58.0
Maximum	66.7	64.9	65.9
Mean	63.8	59.1	62.2
Noise Standard	75	70	

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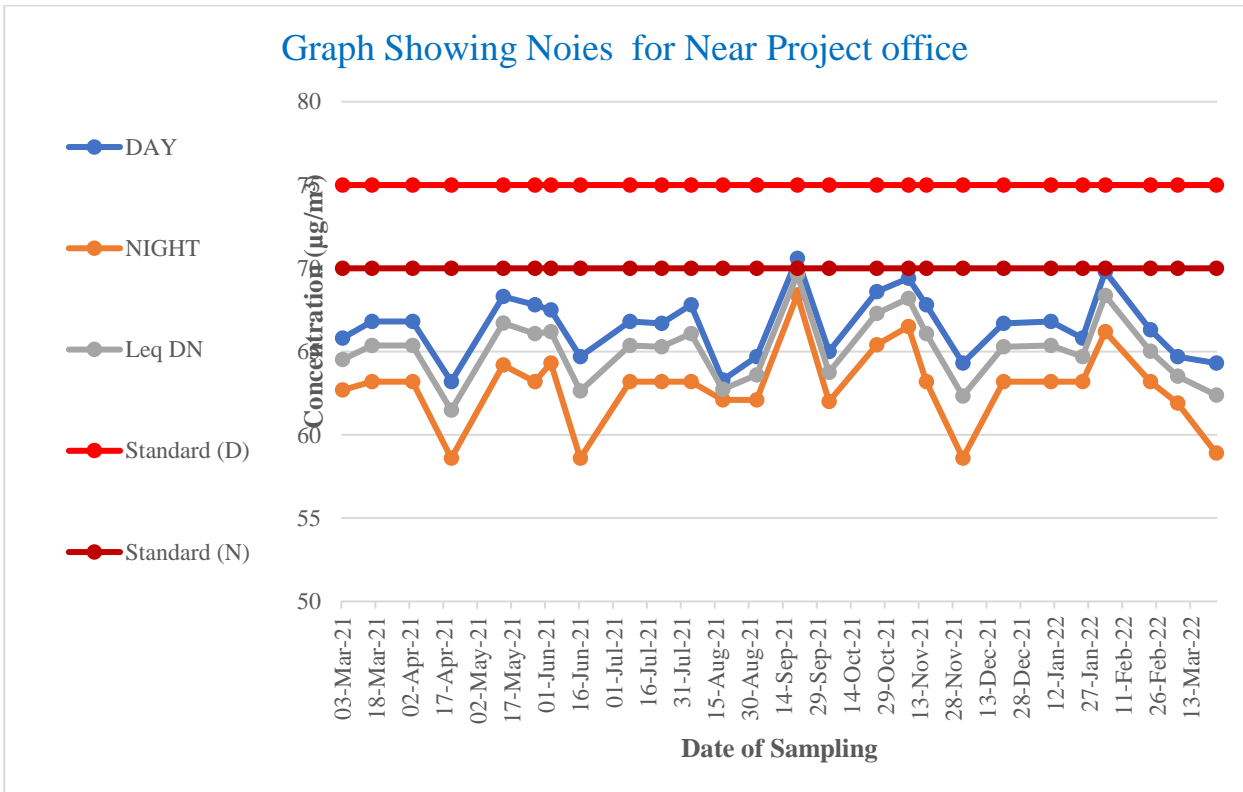
JOB NO.750001

Table:8.2
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: Near Project Office

DATE	DAY	NIGHT	Leq DN(dB)
03-Mar-21	65.8	62.7	64.5
16-Mar-21	66.8	63.2	65.4
03-Apr-21	66.8	63.2	65.4
20-Apr-21	63.2	58.6	61.5
13-May-21	68.3	64.2	66.7
27-May-21	67.8	63.2	66.1
03-Jun-21	67.5	64.3	66.2
16-Jun-21	64.7	58.6	62.6
08-Jul-21	66.8	63.2	65.4
22-Jul-21	66.7	63.2	65.3
04-Aug-21	67.8	63.2	66.1
18-Aug-21	63.3	62.1	62.7
02-Sep-21	64.7	62.1	63.6
20-Sep-21	70.6	68.4	69.6
04-Oct-21	65	62	63.8
25-Oct-21	68.6	65.4	67.3
08-Nov-21	69.4	66.5	68.2
16-Nov-21	67.8	63.2	66.1
02-Dec-21	64.3	58.6	62.3
20-Dec-21	66.7	63.2	65.3
10-Jan-22	66.8	63.2	65.4
24-Jan-22	65.8	63.2	64.7
03-Feb-22	69.8	66.2	68.4
23-Feb-22	66.3	63.2	65.0
07-Mar-22	64.7	61.9	63.5
24-Mar-22	64.3	58.9	62.4
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	63.2	58.6	61.5
Maximum	70.6	68.4	69.6
Mean	66.6	62.9	65.1
Noise Standard	75	70	

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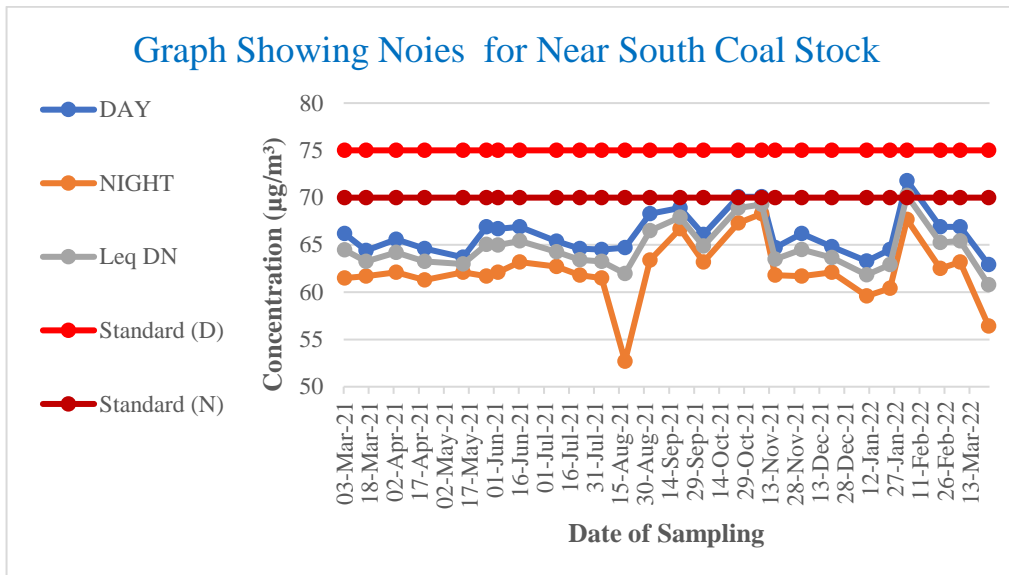
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Table:8.3
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: Near South Coal Stock

DATE	DAY	NIGHT	Leq DN(dB)
03-Mar-21	66.2	61.5	64.5
16-Mar-21	64.4	61.7	63.3
03-Apr-21	65.6	62.1	64.2
20-Apr-21	64.6	61.3	63.3
13-May-21	63.7	62.1	63.0
27-May-21	66.9	61.7	65.0
03-Jun-21	66.7	62.1	65.0
16-Jun-21	66.9	63.2	65.4
08-Jul-21	65.4	62.7	64.3
22-Jul-21	64.6	61.8	63.4
04-Aug-21	64.5	61.5	63.3
18-Aug-21	64.7	52.7	62.0
02-Sep-21	68.3	63.4	66.5
20-Sep-21	68.9	66.7	67.9
04-Oct-21	66.1	63.2	64.9
25-Oct-21	70.1	67.3	68.9
08-Nov-21	70.1	68.3	69.3
16-Nov-21	64.7	61.8	63.5
02-Dec-21	66.2	61.7	64.5
20-Dec-21	64.8	62.1	63.7
10-Jan-22	63.3	59.6	61.8
24-Jan-22	64.5	60.4	62.9
03-Feb-22	71.8	67.7	70.2
23-Feb-22	66.9	62.5	65.2
07-Mar-22	66.9	63.2	65.4
24-Mar-22	62.9	56.4	60.8
Brief Statistic	DAY	NIGHT	Leq DN
Minimum	62.9	52.7	60.8
Maximum	71.8	68.3	70.2
Mean	66.1	62.3	64.7
Noise Standard	75	70	

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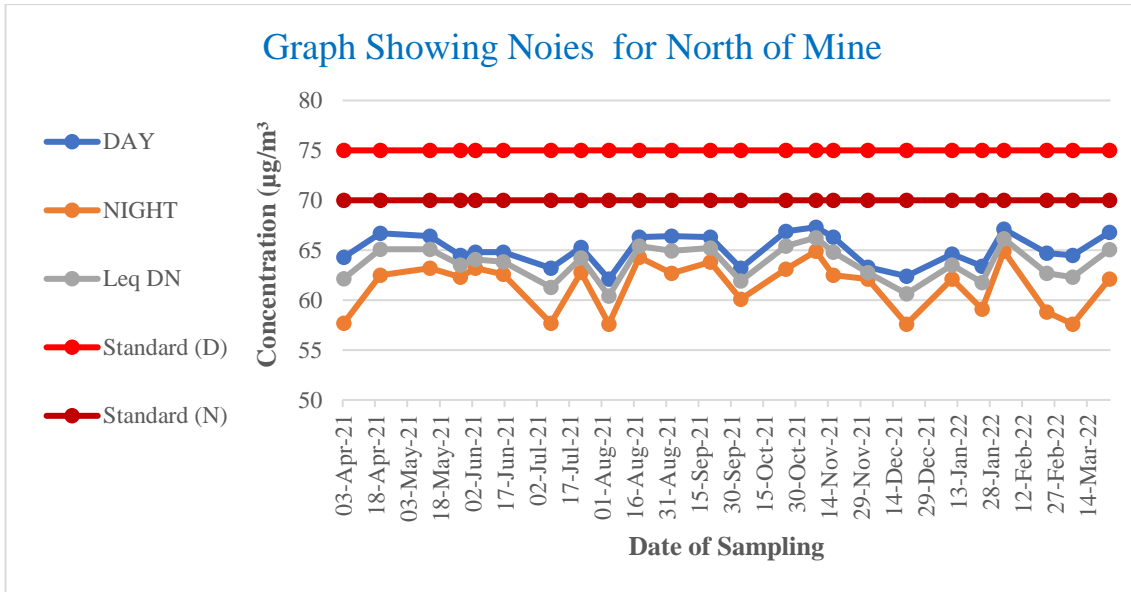
JOB NO.750001

Table:8.4
Area: Ib Valley Area
Project: Lajkura OCP
Monitoring Station: North of Mine

DATE	DAY	NIGHT	Leq DN(dB)
03-Apr-21	64.3	57.7	62.1
20-Apr-21	66.7	62.5	65.1
13-May-21	66.4	63.2	65.1
27-May-21	64.5	62.3	63.5
03-Jun-21	64.8	63.2	64.1
16-Jun-21	64.8	62.6	63.8
08-Jul-21	63.2	57.7	61.3
22-Jul-21	65.3	62.8	64.2
04-Aug-21	62.1	57.6	60.4
18-Aug-21	66.3	64.3	65.4
02-Sep-21	66.4	62.7	64.9
20-Sep-21	66.3	63.8	65.2
04-Oct-21	63.2	60.1	61.9
25-Oct-21	66.9	63.1	65.4
08-Nov-21	67.3	64.9	66.3
16-Nov-21	66.3	62.5	64.8
02-Dec-21	63.3	62.1	62.7
20-Dec-21	62.4	57.6	60.6
10-Jan-22	64.6	62.1	63.5
24-Jan-22	63.4	59.1	61.8
03-Feb-22	67.1	64.9	66.1
23-Feb-22	64.7	58.8	62.7
07-Mar-22	64.5	57.6	62.3
24-Mar-22	66.8	62.1	65.1
Brief Statistic	Day	Night	Leq DN
Minimum	62.1	57.6	60.4
Maximum	67.3	64.9	66.3
Mean	65.1	61.5	63.7
Noise Standard	75	70	

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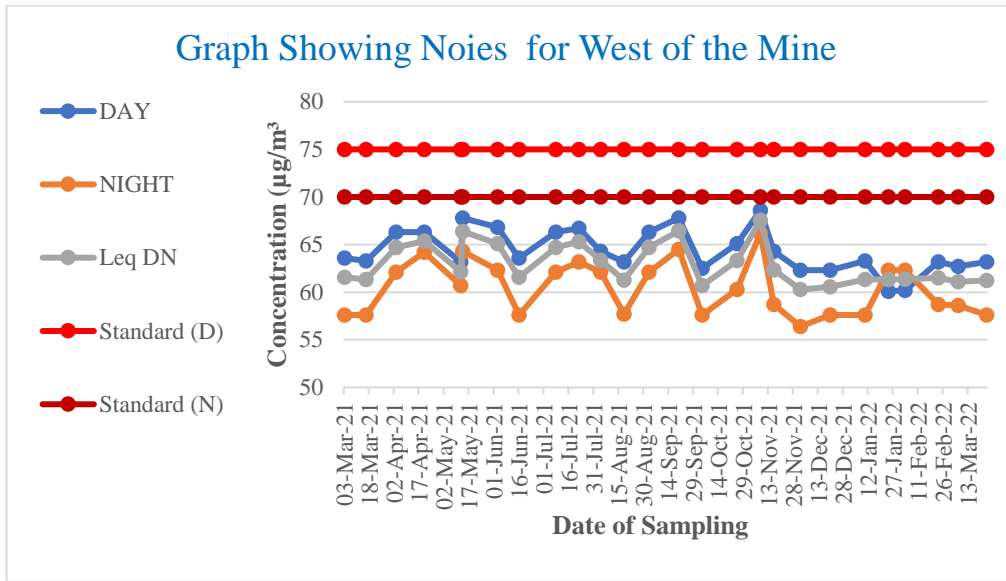
JOB NO.750001

Table:8.5
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: West of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
03-Mar-21	63.6	57.6	61.6
16-Mar-21	63.3	57.6	61.3
03-Apr-21	66.3	62.1	64.7
20-Apr-21	66.3	64.2	65.4
12-May-21	63.2	60.7	62.1
13-May-21	67.8	64.3	66.4
03-Jun-21	66.8	62.3	65.1
16-Jun-21	63.6	57.6	61.6
08-Jul-21	66.3	62.1	64.7
22-Jul-21	66.7	63.2	65.3
04-Aug-21	64.3	62.1	63.3
18-Aug-21	63.2	57.7	61.3
02-Sep-21	66.3	62.1	64.7
20-Sep-21	67.8	64.5	66.5
04-Oct-21	62.5	57.6	60.7
25-Oct-21	65.1	60.3	63.3
08-Nov-21	68.6	66.2	67.6
16-Nov-21	64.3	58.7	62.3
02-Dec-21	62.3	56.4	60.3
20-Dec-21	62.3	57.6	60.6
10-Jan-22	63.3	57.6	61.3
24-Jan-22	60.1	62.3	61.3
03-Feb-22	60.2	62.3	61.4
23-Feb-22	63.2	58.7	61.5
07-Mar-22	62.7	58.6	61.1
24-Mar-22	63.2	57.6	61.2
Brief Statistic	Day	Night	Leq DN
Minimum	60.1	56.4	60.3
Maximum	68.6	66.2	67.6
Mean	64.4	60.5	62.9
Noise Standard	75	70	

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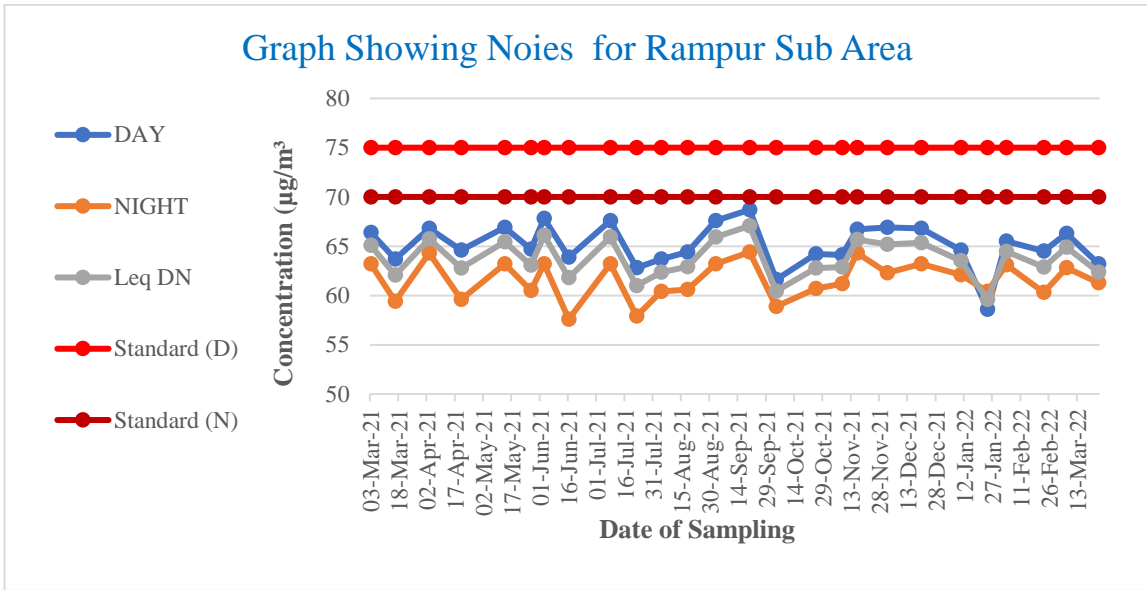
JOB NO.750001

Table:8.6
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: Rampur Sub Area

DATE	DAY	NIGHT	Leq DN(dB)
03-Mar-21	66.4	63.2	65.1
16-Mar-21	63.7	59.4	62.1
03-Apr-21	66.8	64.3	65.7
20-Apr-21	64.6	59.6	62.8
13-May-21	66.9	63.2	65.4
27-May-21	64.7	60.5	63.1
03-Jun-21	67.8	63.2	66.1
16-Jun-21	63.9	57.6	61.8
08-Jul-21	67.6	63.2	65.9
22-Jul-21	62.8	57.9	61.0
04-Aug-21	63.7	60.4	62.4
18-Aug-21	64.4	60.6	62.9
02-Sep-21	67.6	63.2	65.9
20-Sep-21	68.7	64.4	67.1
04-Oct-21	61.6	58.9	60.5
25-Oct-21	64.2	60.7	62.8
08-Nov-21	64.1	61.2	62.9
16-Nov-21	66.7	64.3	65.7
02-Dec-21	66.9	62.3	65.2
20-Dec-21	66.8	63.2	65.4
10-Jan-22	64.6	62.1	63.5
24-Jan-22	58.6	60.4	59.6
03-Feb-22	65.5	63.1	64.5
23-Feb-22	64.5	60.3	62.9
07-Mar-22	66.3	62.8	64.9
24-Mar-22	63.2	61.3	62.4
Brief Statistic	Day	Night	Leq DN
Minimum	58.6	57.6	59.6
Maximum	68.7	64.4	67.1
Mean	65.1	61.6	63.7
Noise Standard	75	70	

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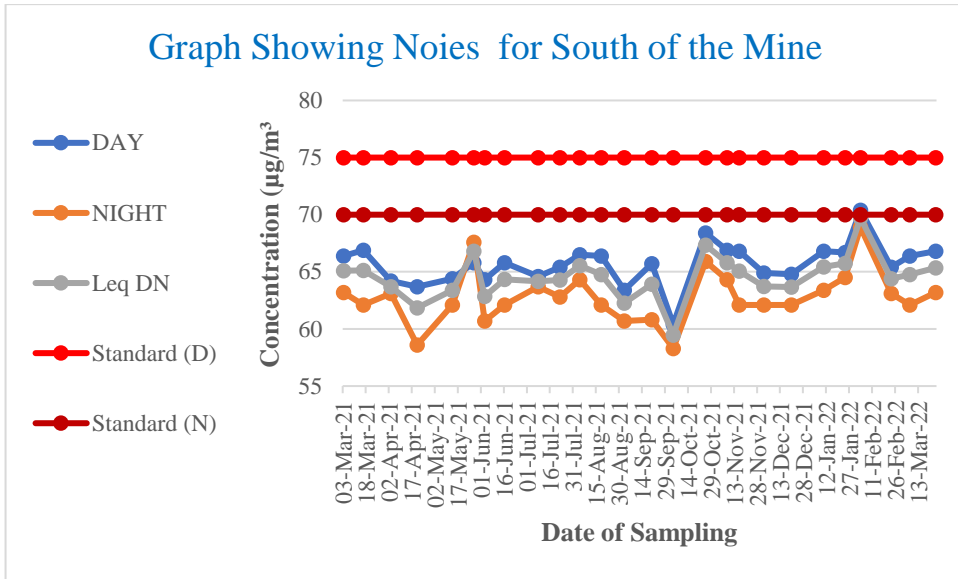
JOB NO.750001

Table8.7
Area: Ib Valley Area
Project: Samaleswari OCP
Monitoring Station: South of the Mine

DATE	DAY	NIGHT	Leq DN(dB)
03-Mar-21	66.4	63.2	65.1
16-Mar-21	66.9	62.1	65.1
03-Apr-21	64.2	63.1	63.7
20-Apr-21	63.7	58.6	61.9
13-May-21	64.4	62.1	63.4
27-May-21	65.8	67.6	66.8
03-Jun-21	64.3	60.7	62.9
16-Jun-21	65.8	62.1	64.3
08-Jul-21	64.6	63.7	64.2
22-Jul-21	65.4	62.8	64.3
04-Aug-21	66.5	64.3	65.5
18-Aug-21	66.4	62.1	64.8
02-Sep-21	63.4	60.7	62.3
20-Sep-21	65.7	60.8	63.9
04-Oct-21	60.4	58.3	59.5
25-Oct-21	68.4	65.9	67.3
08-Nov-21	66.9	64.3	65.8
16-Nov-21	66.8	62.1	65.1
02-Dec-21	64.9	62.1	63.7
20-Dec-21	64.8	62.1	63.7
10-Jan-22	66.8	63.4	65.4
24-Jan-22	66.7	64.5	65.7
03-Feb-22	70.4	68.9	69.7
23-Feb-22	65.4	63.1	64.4
07-Mar-22	66.4	62.1	64.8
24-Mar-22	66.8	63.2	65.4
Brief Statistic	Day	Night	Night
Minimum	60.4	58.3	59.5
Maximum	70.4	68.9	69.7
Mean	65.7	62.8	64.6
Noise Standard	75	70	

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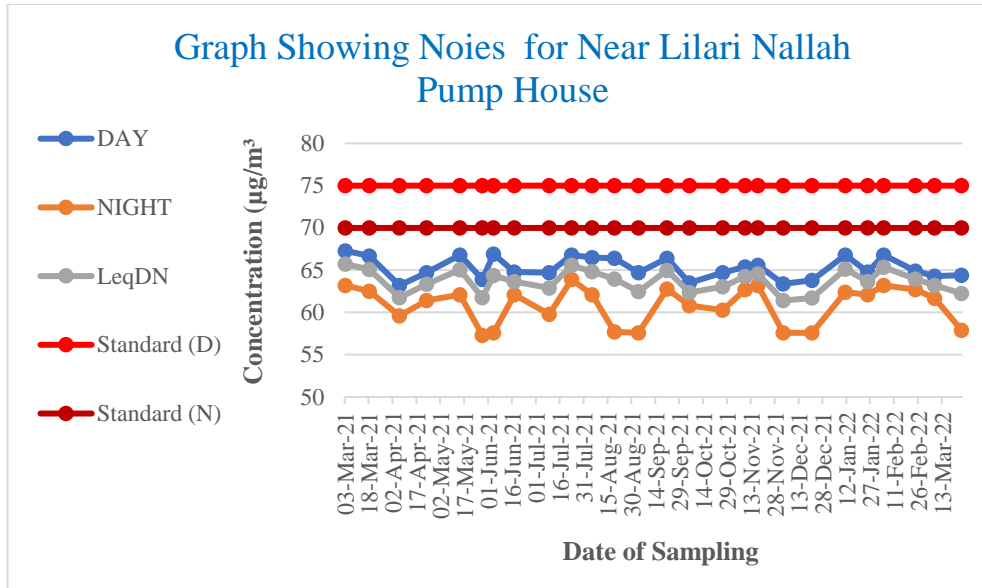
JOB NO.750001

Table:8.8
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: Near Lilari Nallah Pump House

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	67.3	63.2	65.7
18-Mar-21	66.7	62.5	65.1
06-Apr-21	63.2	59.6	61.8
23-Apr-21	64.7	61.4	63.4
14-May-21	66.8	62.1	65.1
28-May-21	63.9	57.3	61.7
04-Jun-21	66.9	57.6	64.4
17-Jun-21	64.8	62.1	63.7
09-Jul-21	64.7	59.8	62.9
23-Jul-21	66.8	63.9	65.6
05-Aug-21	66.5	62.1	64.8
19-Aug-21	66.4	57.7	63.9
03-Sep-21	64.7	57.6	62.5
21-Sep-21	66.4	62.8	65.0
05-Oct-21	63.5	60.8	62.4
26-Oct-21	64.7	60.3	63.0
09-Nov-21	65.4	62.7	64.3
17-Nov-21	65.6	63.2	64.6
03-Dec-21	63.4	57.6	61.4
21-Dec-21	63.8	57.6	61.7
11-Jan-22	66.8	62.4	65.1
25-Jan-22	64.8	62.1	63.7
04-Feb-22	66.8	63.2	65.4
24-Feb-22	64.9	62.7	63.9
08-Mar-22	64.3	61.7	63.2
25-Mar-22	64.4	57.9	62.3
Brief Statistic	Day	Night	Leq DN
Minimum	63.2	57.3	61.4
Maximum	67.3	63.9	65.7
Mean	65.3	60.8	63.7
Noise Standard	75	70	

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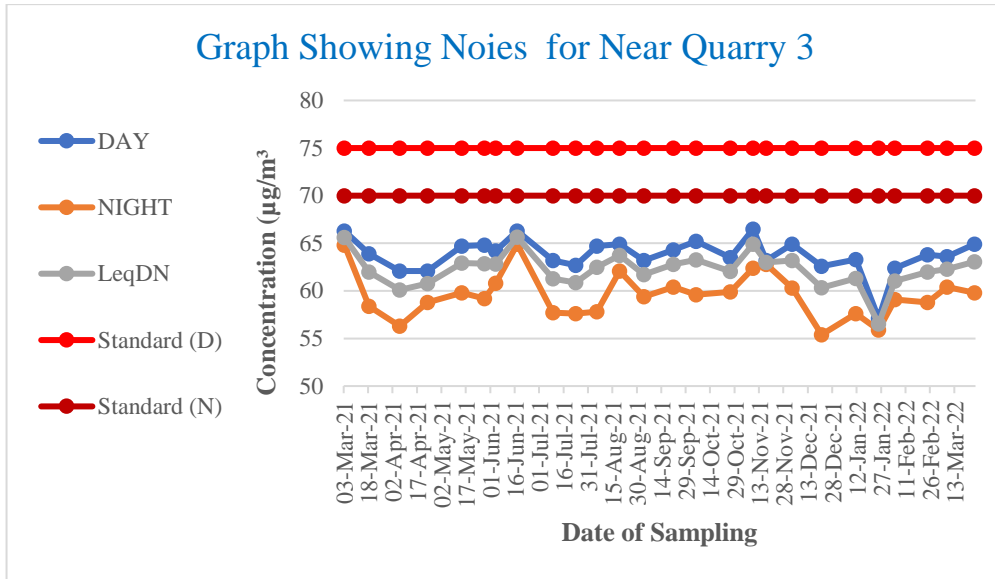
JOB NO.750001

Table:8.9
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: Near Quarry 3

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	66.3	64.8	65.6
18-Mar-21	63.9	58.4	62.0
06-Apr-21	62.1	56.3	60.1
23-Apr-21	62.1	58.8	60.8
14-May-21	64.7	59.8	62.9
28-May-21	64.8	59.2	62.8
04-Jun-21	64.2	60.8	62.8
17-Jun-21	66.3	64.9	65.7
09-Jul-21	63.2	57.7	61.3
23-Jul-21	62.7	57.6	60.9
05-Aug-21	64.7	57.8	62.5
19-Aug-21	64.9	62.1	63.7
03-Sep-21	63.2	59.4	61.7
21-Sep-21	64.3	60.4	62.8
05-Oct-21	65.2	59.6	63.2
26-Oct-21	63.5	59.9	62.1
09-Nov-21	66.5	62.4	64.9
17-Nov-21	63.2	62.8	63.0
03-Dec-21	64.9	60.3	63.2
21-Dec-21	62.6	55.4	60.3
11-Jan-22	63.3	57.6	61.3
25-Jan-22	57.1	55.9	56.5
04-Feb-22	62.4	59.1	61.1
24-Feb-22	63.8	58.8	62.0
08-Mar-22	63.6	60.4	62.3
25-Mar-22	64.9	59.8	63.1
Brief Statistic	Day	Night	Leq DN
Minimum	57.1	55.4	56.5
Maximum	66.5	64.9	65.7
Mean	63.8	59.6	62.3
Noise Standard	75	70	

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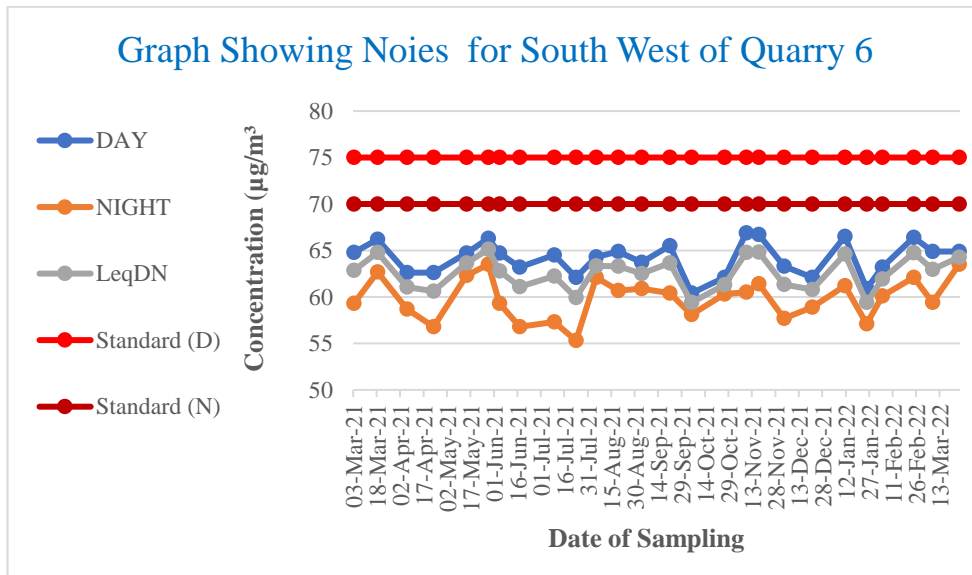
JOB NO.750001

Table:8.10
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: South West of Quarry 6

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	64.8	59.3	62.9
18-Mar-21	66.2	62.7	64.8
06-Apr-21	62.6	58.7	61.1
23-Apr-21	62.6	56.8	60.6
14-May-21	64.7	62.3	63.7
28-May-21	66.3	63.5	65.1
04-Jun-21	64.7	59.3	62.8
17-Jun-21	63.2	56.8	61.1
09-Jul-21	64.5	57.3	62.2
23-Jul-21	62.1	55.3	59.9
05-Aug-21	64.3	62.1	63.3
19-Aug-21	64.9	60.7	63.3
03-Sep-21	63.7	60.9	62.5
21-Sep-21	65.5	60.4	63.7
05-Oct-21	60.4	58.1	59.4
26-Oct-21	62.1	60.3	61.3
09-Nov-21	66.9	60.5	64.8
17-Nov-21	66.7	61.4	64.8
03-Dec-21	63.3	57.7	61.3
21-Dec-21	62.1	58.9	60.8
11-Jan-22	66.5	61.2	64.6
25-Jan-22	60.9	57.1	59.4
04-Feb-22	63.2	60.1	61.9
24-Feb-22	66.4	62.1	64.8
08-Mar-22	64.9	59.4	63.0
25-Mar-22	64.9	63.5	64.3
Brief Statistic	Day	Night	Leq DN
Minimum	60.4	55.3	59.4
Maximum	66.9	63.5	65.1
Mean	64.2	59.9	62.6
Noise Standard	75	70	

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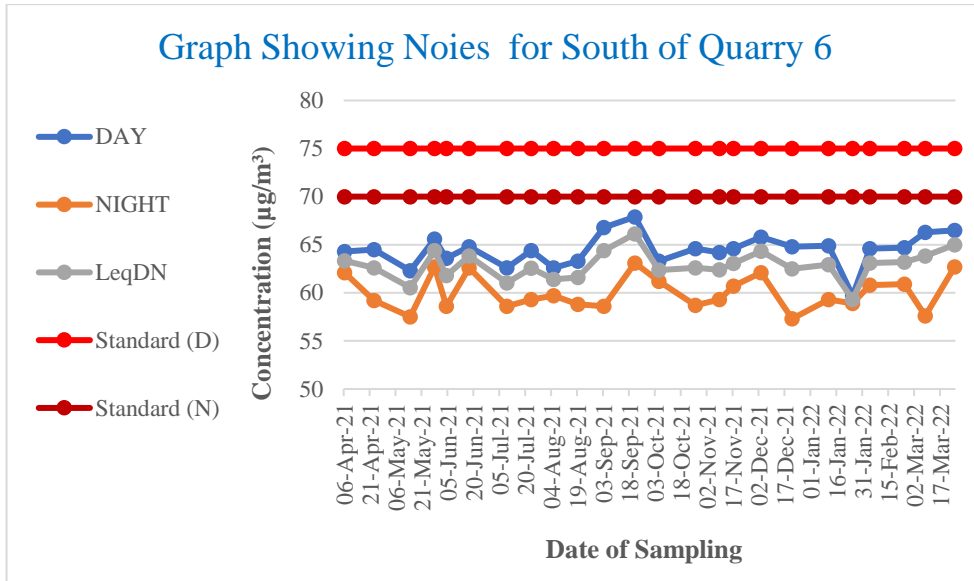
JOB NO.750001

Table: 8.11
Area: Lakhanpur Area
Project: Lakhanpur OCP
Monitoring Station: South of Quarry 6

DATE	DAY	NIGHT	LeqDN(dB)
06-Apr-21	64.3	62.1	63.3
23-Apr-21	64.5	59.2	62.6
14-May-21	62.3	57.5	60.5
28-May-21	65.6	62.7	64.4
04-Jun-21	63.6	58.6	61.8
17-Jun-21	64.8	62.6	63.8
09-Jul-21	62.6	58.6	61.0
23-Jul-21	64.4	59.3	62.6
05-Aug-21	62.6	59.7	61.4
19-Aug-21	63.3	58.8	61.6
03-Sep-21	66.8	58.6	64.4
21-Sep-21	67.9	63.1	66.1
05-Oct-21	63.3	61.2	62.4
26-Oct-21	64.6	58.7	62.6
09-Nov-21	64.2	59.3	62.4
17-Nov-21	64.6	60.7	63.1
03-Dec-21	65.8	62.1	64.3
21-Dec-21	64.8	57.3	62.5
11-Jan-22	64.9	59.3	62.9
25-Jan-22	59.7	58.9	59.3
04-Feb-22	64.6	60.8	63.1
24-Feb-22	64.7	60.9	63.2
08-Mar-22	66.3	57.6	63.8
25-Mar-22	66.5	62.7	65.0
Brief Statistic	Day	Night	Leq DN
Minimum	59.7	57.3	59.3
Maximum	67.9	63.1	66.1
Mean	64.4	60.0	62.8
Noise Standard	75	70	

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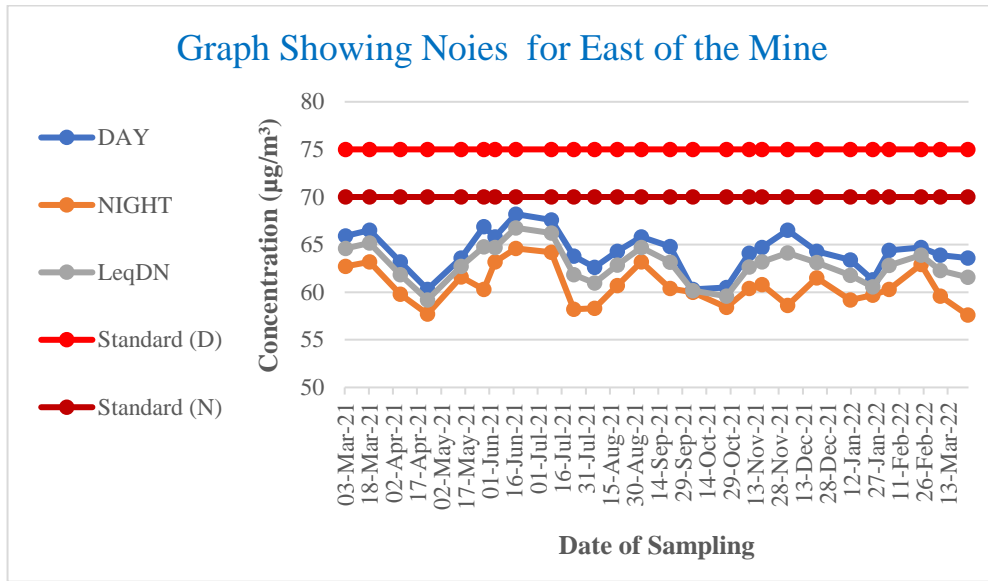
JOB NO.750001

Table: 8.12
Area: Lakhanpur Area
Project: Belpahar OCP
Monitoring Station: East of the Mine

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	65.9	62.7	64.6
18-Mar-21	66.5	63.2	65.2
06-Apr-21	63.2	59.8	61.8
23-Apr-21	60.3	57.7	59.2
14-May-21	63.6	61.6	62.7
28-May-21	66.9	60.3	64.7
04-Jun-21	65.8	63.2	64.7
17-Jun-21	68.2	64.6	66.8
09-Jul-21	67.6	64.2	66.2
23-Jul-21	63.8	58.2	61.8
05-Aug-21	62.6	58.3	61.0
19-Aug-21	64.3	60.7	62.9
03-Sep-21	65.8	63.2	64.7
21-Sep-21	64.8	60.4	63.1
05-Oct-21	60.3	60	60.2
26-Oct-21	60.5	58.4	59.6
09-Nov-21	64.1	60.4	62.6
17-Nov-21	64.7	60.8	63.2
03-Dec-21	66.5	58.6	64.1
21-Dec-21	64.3	61.5	63.1
11-Jan-22	63.4	59.2	61.8
25-Jan-22	61.3	59.7	60.6
04-Feb-22	64.4	60.3	62.8
24-Feb-22	64.7	62.9	63.9
08-Mar-22	63.9	59.6	62.3
25-Mar-22	63.6	57.6	61.6
Brief Statistic	Day	Night	Leq DN
Minimum	60.3	57.6	59.2
Maximum	68.2	64.6	66.8
Mean	64.3	60.7	62.9
Noise Standard	75	70	

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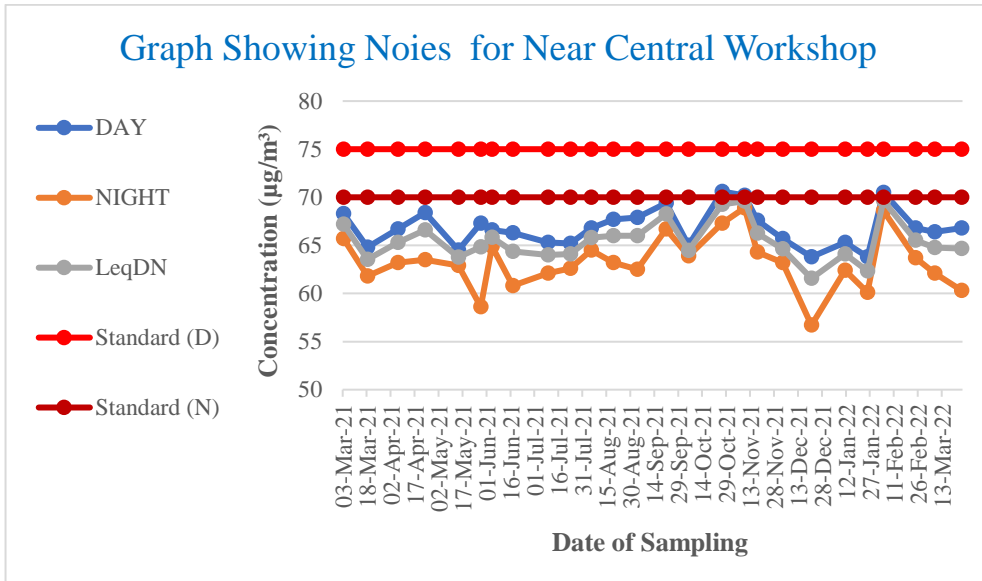
JOB NO.750001

Table: 8.13
Area: Lakhanpur Area
Project: Belpahar OCP
Monitoring Station: Near Central Workshop

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	68.3	65.7	67.2
18-Mar-21	64.8	61.8	63.6
06-Apr-21	66.7	63.2	65.3
23-Apr-21	68.4	63.5	66.6
14-May-21	64.5	62.9	63.8
28-May-21	67.3	58.6	64.8
04-Jun-21	66.6	64.9	65.8
17-Jun-21	66.3	60.8	64.4
09-Jul-21	65.3	62.1	64.0
23-Jul-21	65.2	62.6	64.1
05-Aug-21	66.8	64.5	65.8
19-Aug-21	67.7	63.2	66.0
03-Sep-21	67.9	62.5	66.0
21-Sep-21	69.4	66.7	68.3
05-Oct-21	65	63.9	64.5
26-Oct-21	70.6	67.3	69.3
09-Nov-21	70.2	68.9	69.6
17-Nov-21	67.6	64.3	66.3
03-Dec-21	65.7	63.2	64.6
21-Dec-21	63.8	56.7	61.6
11-Jan-22	65.3	62.4	64.1
25-Jan-22	63.8	60.1	62.3
04-Feb-22	70.5	68.6	69.7
24-Feb-22	66.8	63.7	65.5
08-Mar-22	66.4	62.1	64.8
25-Mar-22	66.8	60.3	64.7
Brief Statistic	Day	Night	Leq DN
Minimum	63.8	56.7	61.6
Maximum	70.6	68.9	69.7
Mean	66.8	63.3	65.5
Noise Standard	75	70	

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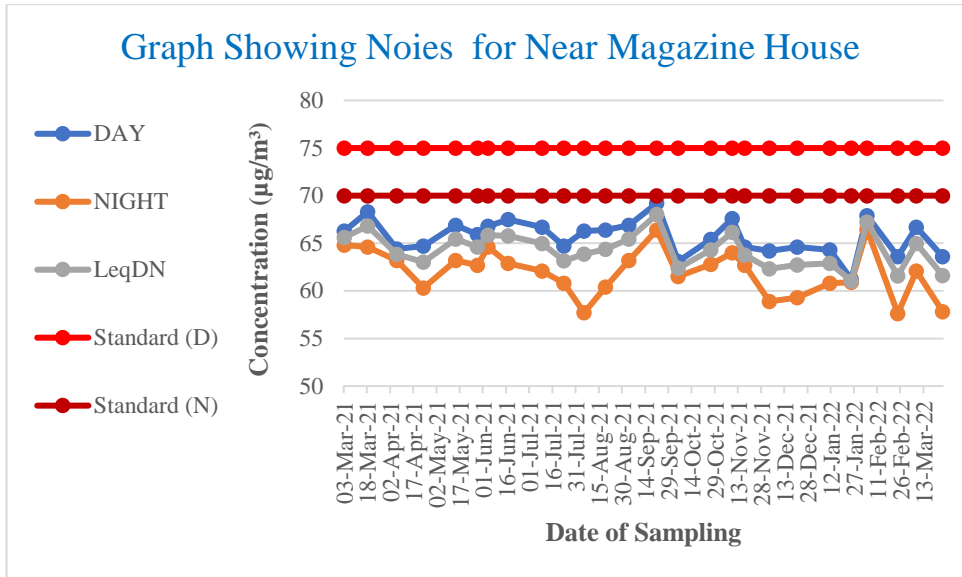
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Table: 8.14
Area: Lakhapur Area
Project: Belpahar OCP
Monitoring Station: Near Magazine House

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	66.3	64.8	65.6
18-Mar-21	68.3	64.6	66.8
06-Apr-21	64.4	63.2	63.8
23-Apr-21	64.7	60.3	63.0
14-May-21	66.9	63.2	65.4
28-May-21	65.9	62.7	64.6
04-Jun-21	66.8	64.6	65.8
17-Jun-21	67.5	62.9	65.8
09-Jul-21	66.7	62.1	65.0
23-Jul-21	64.7	60.8	63.2
05-Aug-21	66.3	57.7	63.9
19-Aug-21	66.4	60.4	64.4
03-Sep-21	66.9	63.2	65.4
21-Sep-21	69.2	66.4	68.0
05-Oct-21	63.1	61.5	62.4
26-Oct-21	65.4	62.8	64.3
09-Nov-21	67.6	64	66.2
17-Nov-21	64.6	62.7	63.8
03-Dec-21	64.2	58.9	62.3
21-Dec-21	64.6	59.3	62.7
11-Jan-22	64.3	60.8	62.9
25-Jan-22	61.2	60.9	61.1
04-Feb-22	67.9	66.44	67.2
24-Feb-22	63.6	57.6	61.6
08-Mar-22	66.7	62.1	65.0
25-Mar-22	63.6	57.8	61.6
Brief Statistic	Day	Night	Leq DN
Minimum	61.2	57.6	61.1
Maximum	69.2	66.44	68.0
Mean	65.7	62.0	64.3
Noise Standard	75	70	

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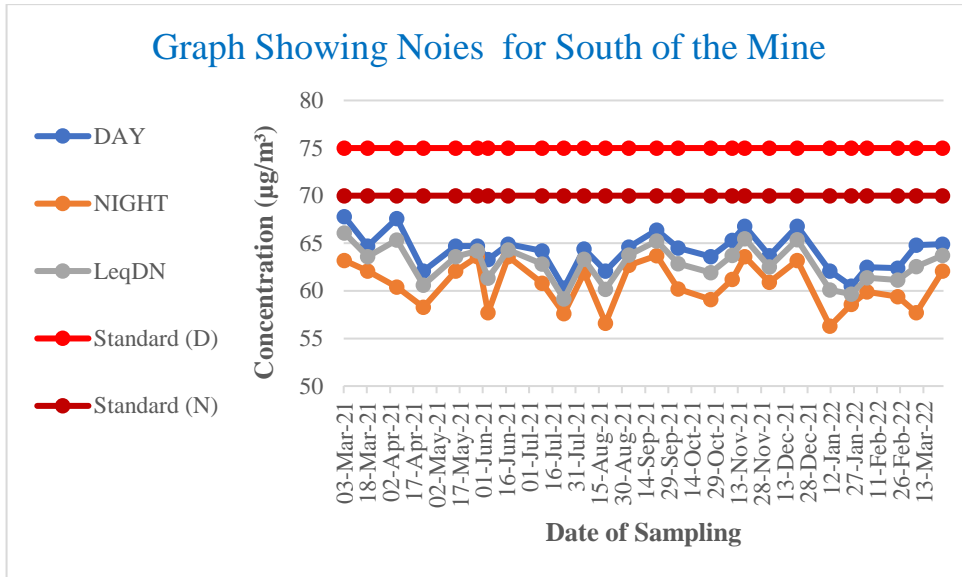
JOB NO.750001

Table: 8.15
Area: Lakhanpur Area
Project: Belpahar OCP
Monitoring Station: South of the Mine

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	67.8	63.2	66.1
18-Mar-21	64.7	62.1	63.6
06-Apr-21	67.6	60.4	65.3
23-Apr-21	62.1	58.3	60.6
14-May-21	64.7	62.1	63.6
28-May-21	64.7	63.6	64.2
04-Jun-21	63.3	57.7	61.3
17-Jun-21	64.9	63.6	64.3
09-Jul-21	64.2	60.8	62.8
23-Jul-21	60.3	57.6	59.2
05-Aug-21	64.4	61.9	63.3
19-Aug-21	62.1	56.6	60.2
03-Sep-21	64.6	62.7	63.8
21-Sep-21	66.4	63.7	65.3
05-Oct-21	64.5	60.2	62.9
26-Oct-21	63.6	59.1	61.9
09-Nov-21	65.3	61.2	63.7
17-Nov-21	66.8	63.6	65.5
03-Dec-21	63.7	60.9	62.5
21-Dec-21	66.8	63.2	65.4
11-Jan-22	62.1	56.3	60.1
25-Jan-22	60.5	58.6	59.7
04-Feb-22	62.5	59.9	61.4
24-Feb-22	62.4	59.4	61.2
08-Mar-22	64.8	57.7	62.6
25-Mar-22	64.9	62.1	63.7
Brief Statistic	Day	Night	Leq DN
Minimum	60.3	56.3	59.2
Maximum	67.8	63.7	66.1
Mean	64.2	60.6	62.8
Noise Standard	75	70	

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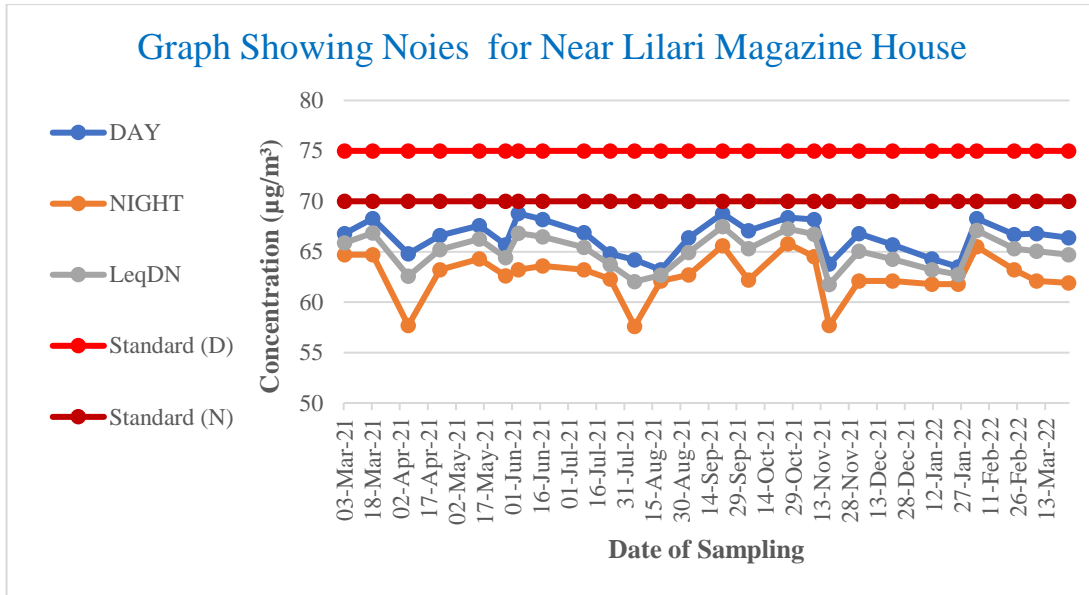
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Table: 8.16
Area: Lakhapur Area
Project: Lilari OCP
Monitoring Station: Near Lilari Magazine House

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	66.8	64.7	65.9
18-Mar-21	68.3	64.7	66.9
06-Apr-21	64.8	57.7	62.6
23-Apr-21	66.6	63.2	65.2
14-May-21	67.6	64.3	66.3
28-May-21	65.7	62.6	64.4
04-Jun-21	68.8	63.2	66.8
17-Jun-21	68.2	63.6	66.5
09-Jul-21	66.9	63.2	65.4
23-Jul-21	64.8	62.3	63.7
05-Aug-21	64.2	57.6	62.0
19-Aug-21	63.2	62.1	62.7
03-Sep-21	66.4	62.7	64.9
21-Sep-21	68.8	65.6	67.5
05-Oct-21	67.1	62.2	65.3
26-Oct-21	68.4	65.8	67.3
09-Nov-21	68.2	64.5	66.7
17-Nov-21	63.8	57.7	61.7
03-Dec-21	66.8	62.1	65.1
21-Dec-21	65.7	62.1	64.3
11-Jan-22	64.3	61.8	63.2
25-Jan-22	63.5	61.8	62.7
04-Feb-22	68.3	65.5	67.1
24-Feb-22	66.7	63.2	65.3
08-Mar-22	66.8	62.1	65.1
25-Mar-22	66.4	61.9	64.7
Brief Statistic	Day	Night	Leq DN
Minimum	63.2	57.6	61.7
Maximum	68.8	65.8	67.5
Mean	66.4	62.6	65.0
Noise Standard	75	70	

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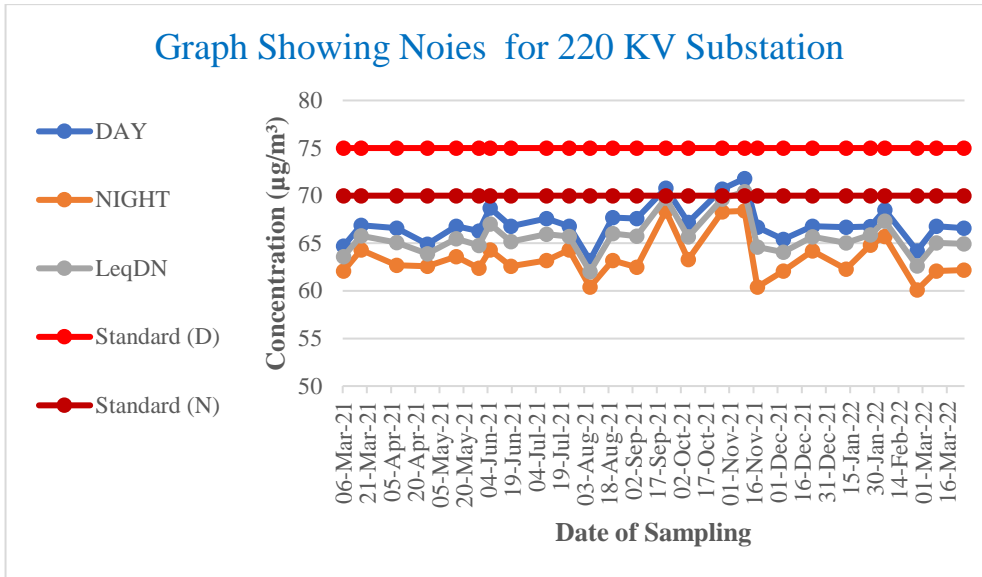
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Table: 8.17
Area: Basundhara OCP
Project: Garjanbahal OCP
Monitoring Station: 200 KV Substation

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	64.7	62.1	63.6
17-Mar-21	66.9	64.3	65.8
08-Apr-21	66.6	62.7	65.1
27-Apr-21	64.9	62.6	63.9
15-May-21	66.8	63.6	65.5
29-May-21	66.3	62.4	64.8
05-Jun-21	68.7	64.3	67.0
18-Jun-21	66.8	62.6	65.2
10-Jul-21	67.6	63.2	65.9
24-Jul-21	66.8	64.3	65.7
06-Aug-21	63.2	60.4	62.0
20-Aug-21	67.7	63.2	66.0
04-Sep-21	67.6	62.5	65.8
22-Sep-21	70.8	68.4	69.8
06-Oct-21	67.2	63.3	65.7
27-Oct-21	70.7	68.3	69.7
10-Nov-21	71.8	68.4	70.4
18-Nov-21	66.7	60.4	64.6
04-Dec-21	65.4	62.1	64.1
22-Dec-21	66.8	64.2	65.7
12-Jan-22	66.7	62.3	65.0
27-Jan-22	66.8	64.8	65.9
05-Feb-22	68.5	65.7	67.3
25-Feb-22	64.2	60.1	62.6
09-Mar-22	66.8	62.1	65.1
26-Mar-22	66.6	62.2	64.9
Brief Statistic	Day	Night	Leq DN
Minimum	63.2	60.1	62.0
Maximum	71.8	68.4	70.4
Mean	67.1	63.5	65.7
Noise Standard	75	70	

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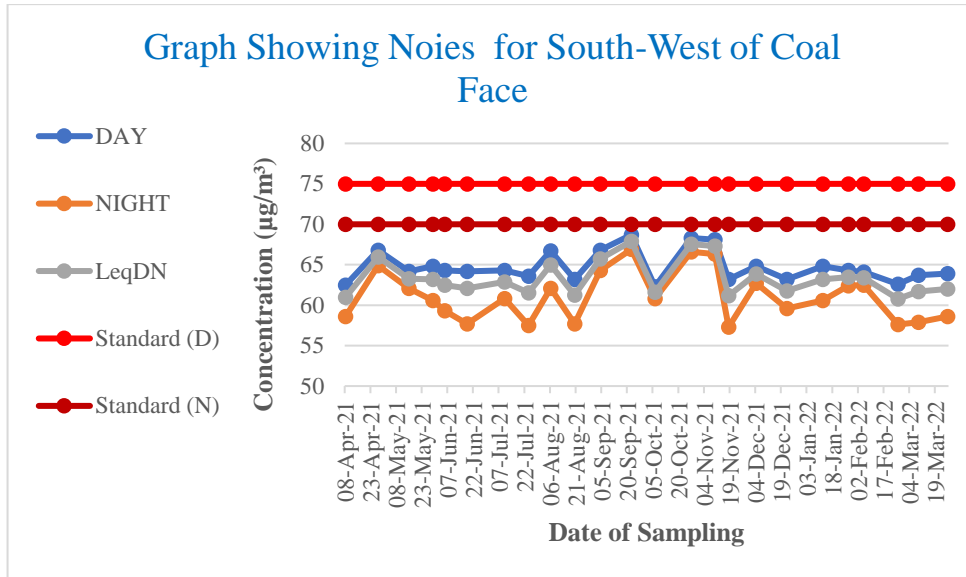
JOB NO.750001

Table: 8.18
Area: Basundhara OCP
Project: Garjanbahal OCP
Monitoring Station: South-West of Coal Face

DATE	DAY	NIGHT	LeqDN(dB)
08-Apr-21	62.5	58.6	61.0
27-Apr-21	66.8	64.9	66.0
15-May-21	64.2	62.1	63.3
29-May-21	64.8	60.6	63.2
05-Jun-21	64.3	59.3	62.5
18-Jun-21	64.2	57.7	62.1
10-Jul-21	64.3	60.8	62.9
24-Jul-21	63.6	57.5	61.5
06-Aug-21	66.7	62.1	65.0
20-Aug-21	63.2	57.7	61.3
04-Sep-21	66.8	64.3	65.7
22-Sep-21	68.7	66.9	67.9
06-Oct-21	62.3	60.8	61.6
27-Oct-21	68.3	66.6	67.5
10-Nov-21	68.1	66.3	67.3
18-Nov-21	63.2	57.3	61.2
04-Dec-21	64.8	62.7	63.9
22-Dec-21	63.2	59.6	61.8
12-Jan-22	64.8	60.6	63.2
27-Jan-22	64.3	62.4	63.5
05-Feb-22	64.1	62.5	63.4
25-Feb-22	62.6	57.6	60.8
09-Mar-22	63.7	57.9	61.7
26-Mar-22	63.9	58.6	62.0
Brief Statistic	Day	Night	Leq DN
Minimum	62.3	57.3	60.8
Maximum	68.7	66.9	67.9
Mean	64.7	61.1	63.3
Noise Standard	75	70	

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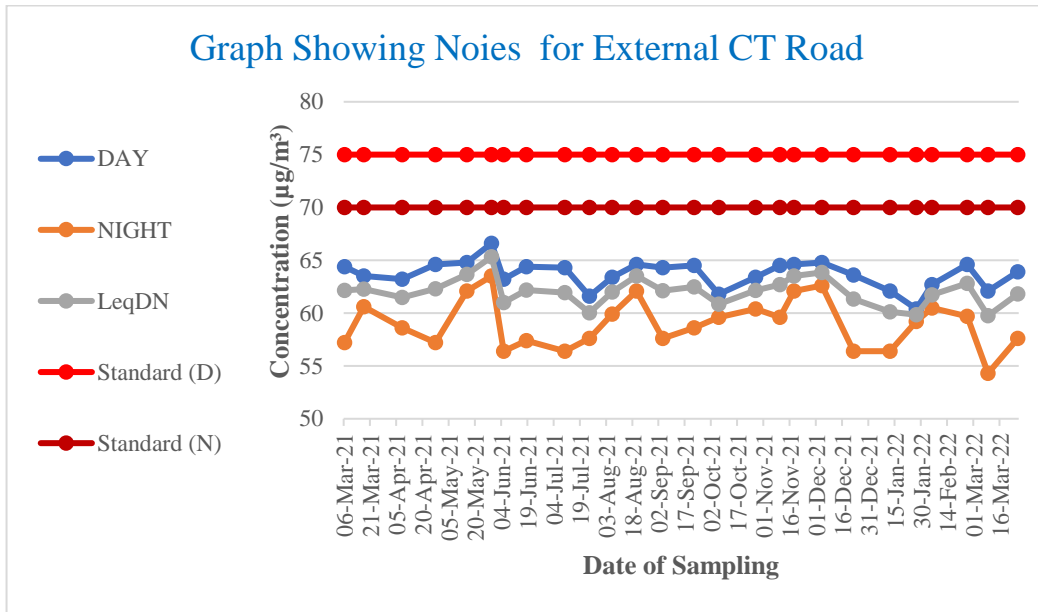
JOB NO.750001

Table: 8.19
Area: Basundhara OCP
Project: Kulda OCP
Monitoring Station: External CT Road

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	64.4	57.2	62.1
17-Mar-21	63.5	60.6	62.3
08-Apr-21	63.2	58.6	61.5
27-Apr-21	64.6	57.2	62.3
15-May-21	64.8	62.1	63.7
29-May-21	66.6	63.5	65.3
05-Jun-21	63.2	56.4	61.0
18-Jun-21	64.4	57.4	62.2
10-Jul-21	64.3	56.4	61.9
24-Jul-21	61.6	57.6	60.0
06-Aug-21	63.4	59.9	62.0
20-Aug-21	64.6	62.1	63.5
04-Sep-21	64.3	57.6	62.1
22-Sep-21	64.5	58.6	62.5
06-Oct-21	61.8	59.6	60.8
27-Oct-21	63.4	60.4	62.2
10-Nov-21	64.5	59.6	62.7
18-Nov-21	64.6	62.1	63.5
04-Dec-21	64.8	62.6	63.8
22-Dec-21	63.6	56.4	61.3
12-Jan-22	62.1	56.4	60.1
27-Jan-22	60.4	59.2	59.8
05-Feb-22	62.7	60.5	61.7
25-Feb-22	64.6	59.7	62.8
09-Mar-22	62.1	54.3	59.8
26-Mar-22	63.9	57.6	61.8
Brief Statistic	Day	Night	Leq DN
Minimum	60.4	54.3	59.8
Maximum	66.6	63.5	65.3
Mean	63.7	59.0	62.0
Noise Standard	75	70	

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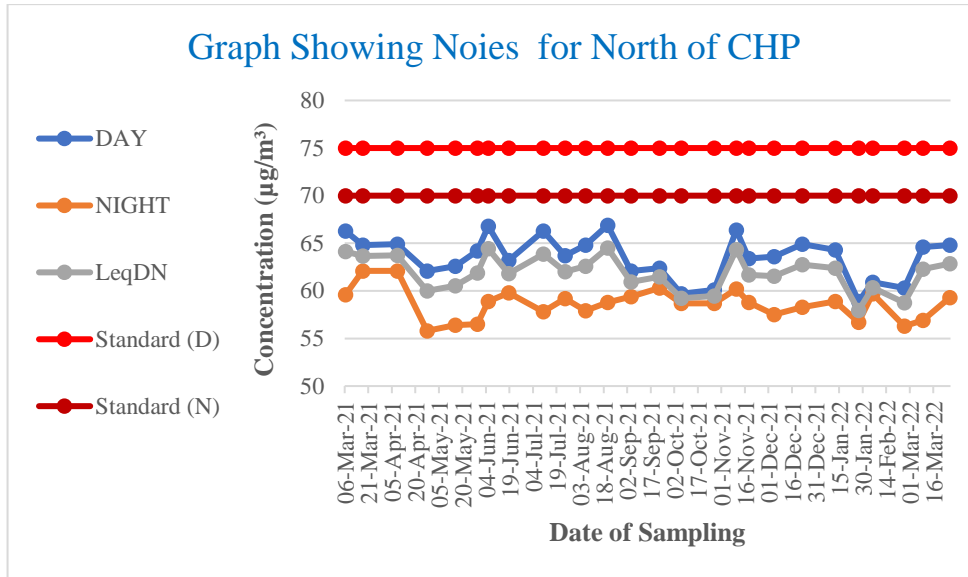
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Table: 8.20
Area: Basundhara OCP
Project: Kulda OCP
Monitoring Station: North of CHP

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	66.3	59.6	64.1
17-Mar-21	64.8	62.1	63.7
08-Apr-21	64.9	62.1	63.7
27-Apr-21	62.1	55.8	60.0
15-May-21	62.6	56.4	60.5
29-May-21	64.2	56.5	61.9
05-Jun-21	66.8	58.9	64.4
18-Jun-21	63.2	59.8	61.8
10-Jul-21	66.3	57.8	63.9
24-Jul-21	63.7	59.2	62.0
06-Aug-21	64.8	57.9	62.6
20-Aug-21	66.9	58.8	64.5
04-Sep-21	62.1	59.4	61.0
22-Sep-21	62.4	60.3	61.5
06-Oct-21	59.7	58.7	59.2
27-Oct-21	60.1	58.7	59.5
10-Nov-21	66.4	60.2	64.3
18-Nov-21	63.4	58.8	61.7
04-Dec-21	63.6	57.5	61.5
22-Dec-21	64.9	58.3	62.7
12-Jan-22	64.3	58.9	62.4
27-Jan-22	58.9	56.7	57.9
05-Feb-22	60.9	59.7	60.3
25-Feb-22	60.3	56.3	58.7
09-Mar-22	64.6	56.9	62.3
26-Mar-22	64.8	59.3	62.9
Brief Statistic	Day	Night	Leq DN
Minimum	58.9	55.8	57.9
Maximum	66.9	62.1	64.5
Mean	63.6	58.6	61.9
Noise Standard	75	70	

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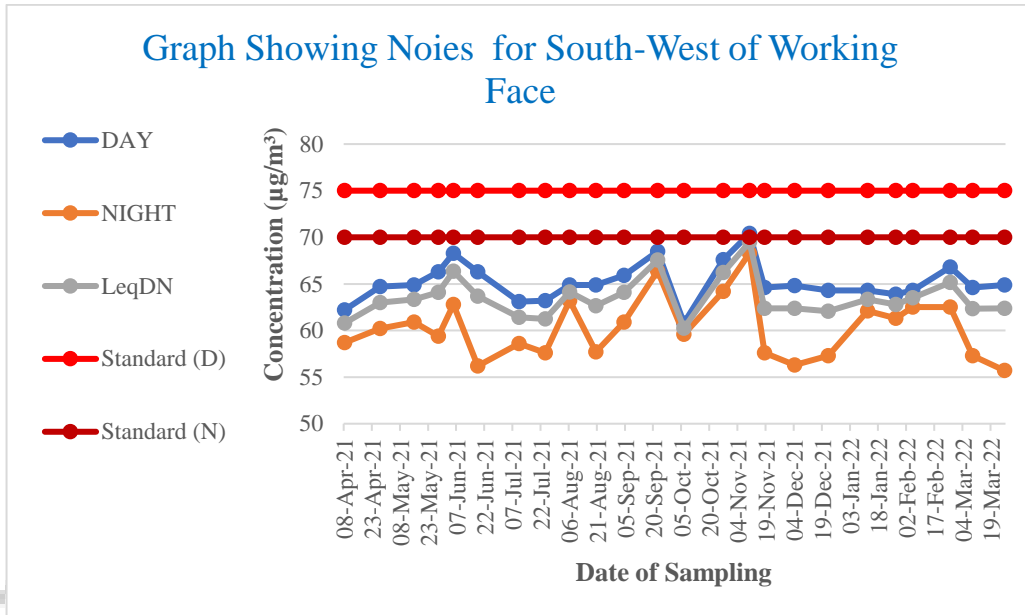
JOB NO.750001

Table: 8.21
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: South-West of Working Face

DATE	DAY	NIGHT	LeqDN(dB)
08-Apr-21	62.2	58.7	60.8
27-Apr-21	64.7	60.2	63.0
15-May-21	64.9	60.9	63.3
28-May-21	66.3	59.4	64.1
05-Jun-21	68.3	62.8	66.4
18-Jun-21	66.3	56.2	63.7
10-Jul-21	63.1	58.6	61.4
24-Jul-21	63.2	57.6	61.2
06-Aug-21	64.9	63.2	64.1
20-Aug-21	64.9	57.7	62.6
04-Sep-21	65.9	60.9	64.1
22-Sep-21	68.5	66.4	67.6
06-Oct-21	60.8	59.6	60.2
27-Oct-21	67.6	64.2	66.2
10-Nov-21	70.4	68.3	69.5
18-Nov-21	64.6	57.6	62.4
04-Dec-21	64.8	56.3	62.4
22-Dec-21	64.3	57.3	62.1
12-Jan-22	64.3	62.1	63.3
27-Jan-22	63.9	61.3	62.8
05-Feb-22	64.3	62.5	63.5
25-Feb-22	66.8	62.5	65.2
09-Mar-22	64.6	57.3	62.3
26-Mar-22	64.9	55.7	62.4
Brief Statistic	Day	Night	Leq DN
Minimum	60.8	55.7	60.2
Maximum	70.4	68.3	69.5
Mean	65.2	60.3	63.5
Noise Standard	75	70	

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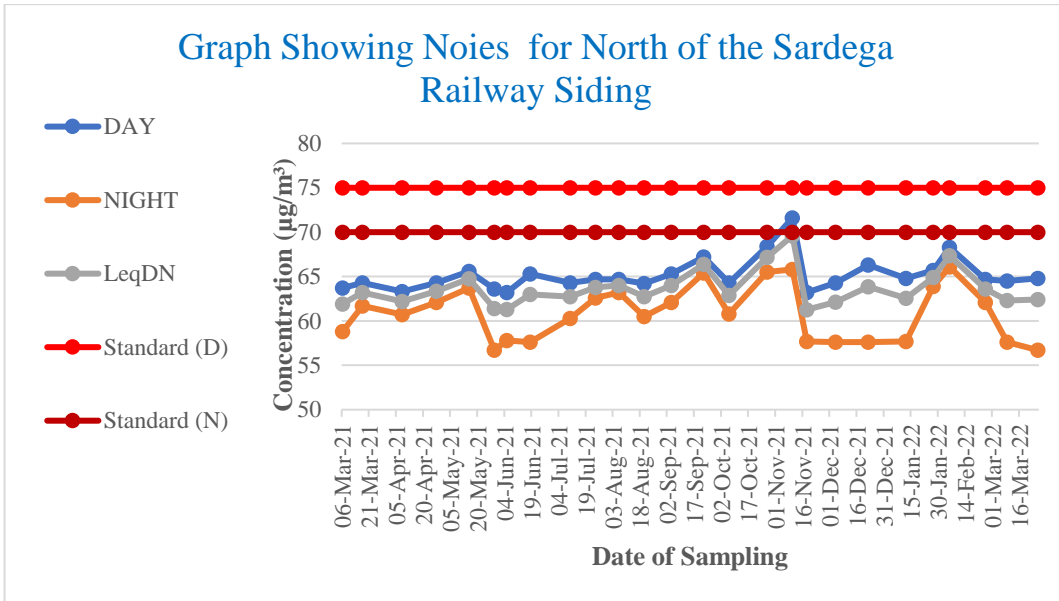
JOB NO.750001

Table: 8.22
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: North of the Sardega Railway Siding

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	63.7	58.8	61.9
17-Mar-21	64.3	61.7	63.2
08-Apr-21	63.3	60.7	62.2
27-Apr-21	64.3	62.1	63.3
15-May-21	65.6	63.7	64.8
29-May-21	63.6	56.7	61.4
05-Jun-21	63.2	57.8	61.3
18-Jun-21	65.3	57.6	63.0
10-Jul-21	64.3	60.3	62.7
24-Jul-21	64.7	62.6	63.8
06-Aug-21	64.7	63.2	64.0
20-Aug-21	64.2	60.5	62.7
04-Sep-21	65.3	62.1	64.0
22-Sep-21	67.2	65.4	66.4
06-Oct-21	64.3	60.8	62.9
27-Oct-21	68.4	65.5	67.2
10-Nov-21	71.6	65.8	69.6
18-Nov-21	63.2	57.7	61.3
04-Dec-21	64.3	57.6	62.1
22-Dec-21	66.3	57.6	63.8
12-Jan-22	64.8	57.7	62.6
27-Jan-22	65.7	63.9	64.9
05-Feb-22	68.3	66.1	67.3
25-Feb-22	64.7	62.1	63.6
09-Mar-22	64.5	57.6	62.3
26-Mar-22	64.8	56.7	62.4
Brief Statistic	Day	Night	Leq DN
Minimum	63.2	56.7	61.3
Maximum	71.6	66.1	69.6
Mean	65.2	60.9	63.6
Noise Standard	75	70	

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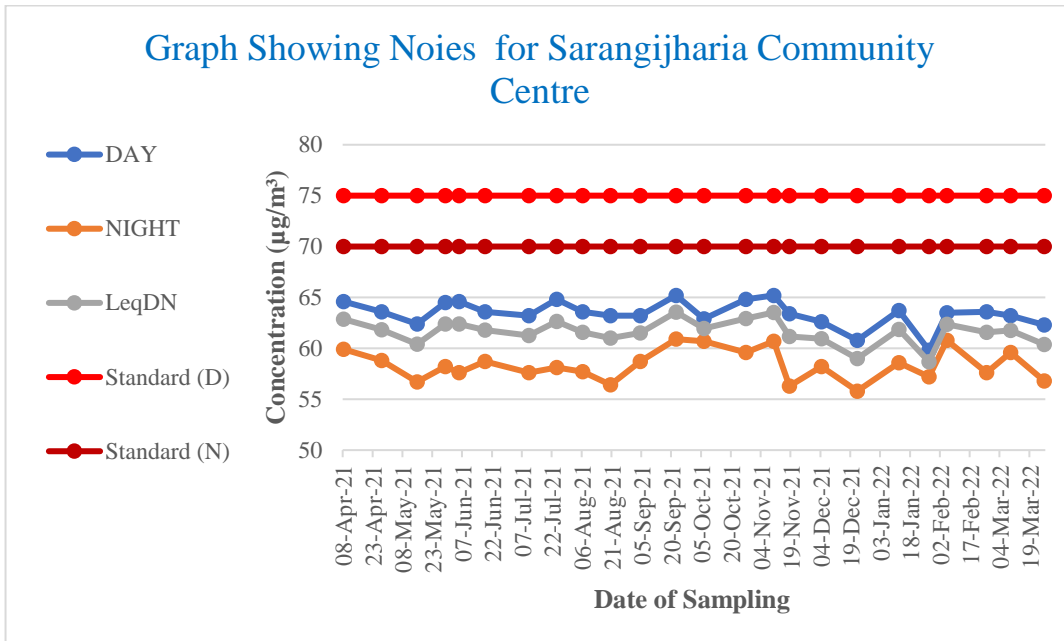
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Table: 8.23
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: Sarangijharia Community Centre

DATE	DAY	NIGHT	LeqDN(dB)
08-Apr-21	64.6	59.9	62.9
27-Apr-21	63.6	58.8	61.8
15-May-21	62.4	56.7	60.4
29-May-21	64.5	58.2	62.4
05-Jun-21	64.6	57.6	62.4
18-Jun-21	63.6	58.7	61.8
10-Jul-21	63.2	57.6	61.2
24-Jul-21	64.8	58.1	62.6
06-Aug-21	63.6	57.7	61.6
20-Aug-21	63.2	56.4	61.0
04-Sep-21	63.2	58.7	61.5
22-Sep-21	65.2	60.9	63.6
06-Oct-21	62.9	60.7	61.9
27-Oct-21	64.8	59.6	62.9
10-Nov-21	65.2	60.7	63.5
18-Nov-21	63.4	56.3	61.2
04-Dec-21	62.6	58.2	60.9
22-Dec-21	60.8	55.8	59.0
12-Jan-22	63.7	58.6	61.9
27-Jan-22	59.8	57.2	58.7
05-Feb-22	63.5	60.8	62.4
25-Feb-22	63.6	57.6	61.6
09-Mar-22	63.2	59.6	61.8
26-Mar-22	62.3	56.8	60.4
Brief Statistic	Day	Night	Leq DN
Minimum	59.8	55.8	58.7
Maximum	65.2	60.9	63.6
Mean	63.4	58.4	61.6
Noise Standard	75	70	

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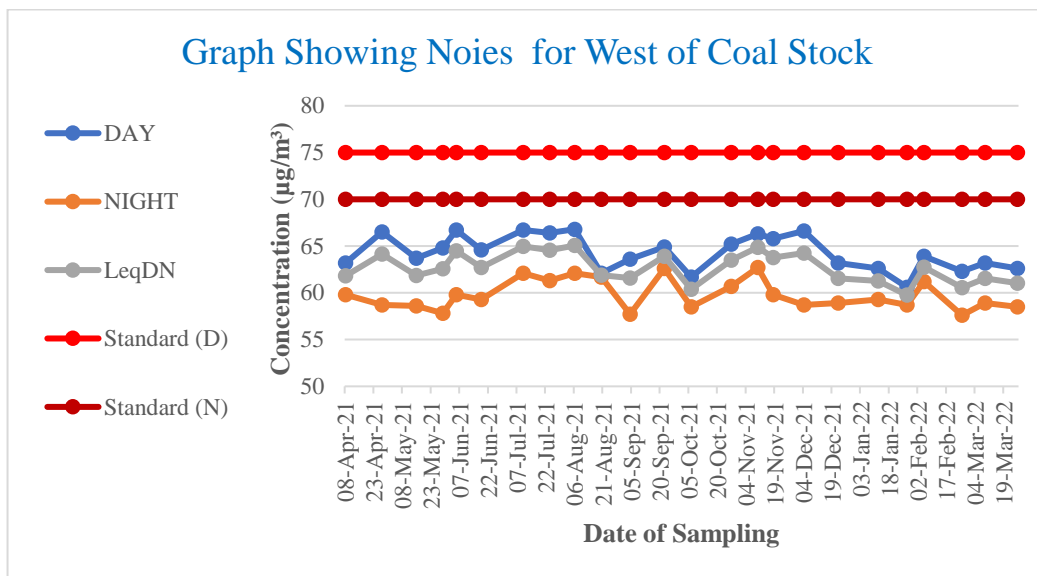
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Table: 8.24
Area: Mahalaxmi
Project: Basundhara (W) OCP
Monitoring Station: West of Coal Stock

DATE	DAY	NIGHT	LeqDN(dB)
08-Apr-21	63.2	59.8	61.8
27-Apr-21	66.5	58.7	64.2
15-May-21	63.7	58.6	61.9
29-May-21	64.8	57.8	62.6
05-Jun-21	66.7	59.8	64.5
18-Jun-21	64.6	59.3	62.7
10-Jul-21	66.7	62.1	65.0
24-Jul-21	66.4	61.3	64.6
06-Aug-21	66.8	62.1	65.1
20-Aug-21	62.1	61.7	61.9
04-Sep-21	63.6	57.7	61.6
22-Sep-21	64.9	62.6	63.9
06-Oct-21	61.7	58.5	60.4
27-Oct-21	65.2	60.7	63.5
10-Nov-21	66.3	62.7	64.9
18-Nov-21	65.8	59.8	63.8
04-Dec-21	66.6	58.7	64.2
22-Dec-21	63.2	58.9	61.6
12-Jan-22	62.6	59.3	61.3
27-Jan-22	60.6	58.7	59.8
05-Feb-22	63.9	61.2	62.8
25-Feb-22	62.3	57.6	60.6
09-Mar-22	63.2	58.9	61.6
26-Mar-22	62.6	58.5	61.0
Brief Statistic	Day	Night	Leq DN
Minimum	60.6	57.6	59.8
Maximum	66.8	62.7	65.1
Mean	64.3	59.8	62.7
Noise Standard	75	70	

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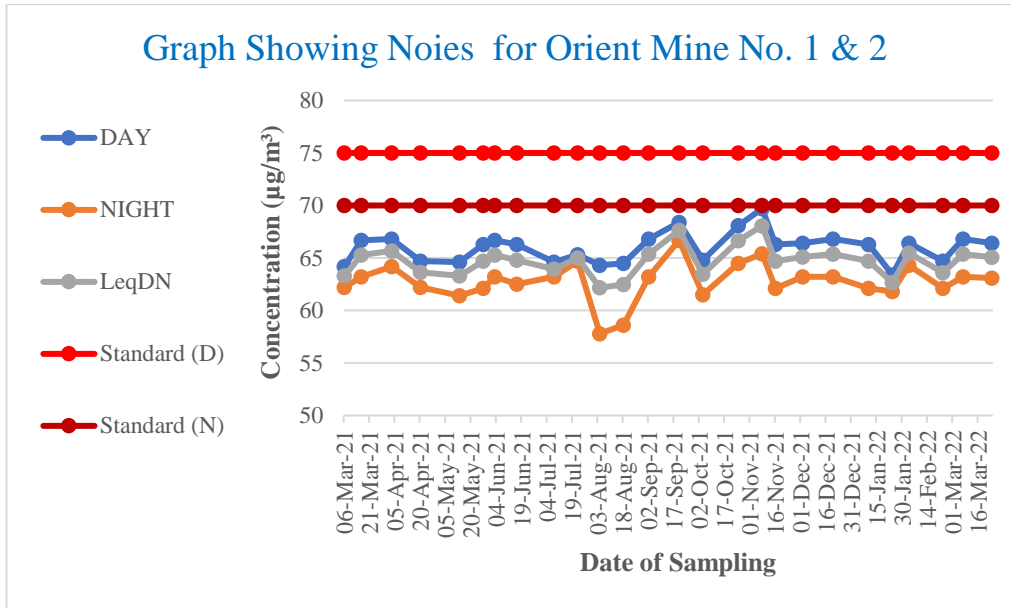
JOB NO.750001

Table: 8.25
Area: Orient
Project: Orient Mine No. 1 & 2
Monitoring Station: Orient Mine No.2

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	64.2	62.2	63.3
16-Mar-21	66.7	63.2	65.3
03-Apr-21	66.8	64.2	65.7
20-Apr-21	64.7	62.2	63.6
13-May-21	64.6	61.4	63.3
27-May-21	66.3	62.1	64.7
03-Jun-21	66.7	63.2	65.3
16-Jun-21	66.3	62.5	64.8
08-Jul-21	64.6	63.2	64.0
22-Jul-21	65.3	64.7	65.0
04-Aug-21	64.3	57.8	62.2
18-Aug-21	64.5	58.6	62.5
02-Sep-21	66.8	63.2	65.4
20-Sep-21	68.4	66.7	67.6
04-Oct-21	64.8	61.5	63.5
25-Oct-21	68.1	64.5	66.7
08-Nov-21	69.7	65.4	68.1
16-Nov-21	66.3	62.1	64.7
02-Dec-21	66.4	63.2	65.1
20-Dec-21	66.8	63.2	65.4
10-Jan-22	66.3	62.1	64.7
24-Jan-22	63.4	61.8	62.7
03-Feb-22	66.4	64.3	65.5
23-Feb-22	64.7	62.1	63.6
07-Mar-22	66.8	63.2	65.4
24-Mar-22	66.4	63.1	65.1
Brief Statistic	Day	Night	Leq DN
Minimum	63.4	57.8	62.2
Maximum	69.7	66.7	68.1
Mean	66.0	62.8	64.7
Noise Standard	75	70	

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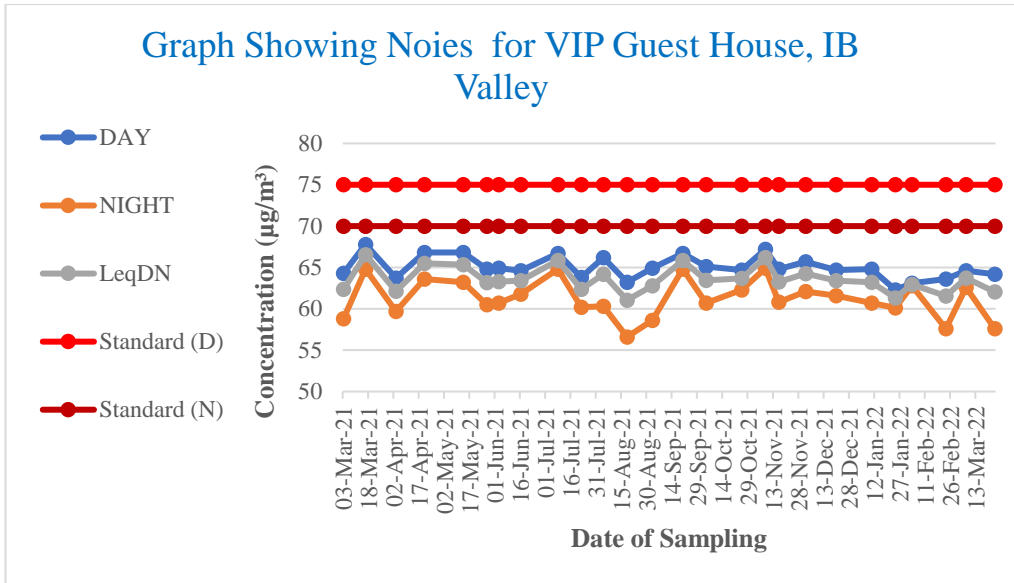
JOB NO.750001

Table: 8.26
Area: Orient
Project: Orient Mine No. 1 & 2
Monitoring Station: VIP Guest House, IB Valley

DATE	DAY	NIGHT	LeqDN(dB)
03-Mar-21	64.3	58.8	62.4
16-Mar-21	67.8	64.8	66.6
03-Apr-21	63.7	59.7	62.1
20-Apr-21	66.8	63.6	65.5
13-May-21	66.8	63.2	65.4
27-May-21	64.8	60.5	63.2
03-Jun-21	64.9	60.7	63.3
16-Jun-21	64.6	61.8	63.4
08-Jul-21	66.7	64.8	65.9
22-Jul-21	63.8	60.2	62.4
04-Aug-21	66.2	60.3	64.2
18-Aug-21	63.2	56.6	61.0
02-Sep-21	64.9	58.6	62.8
20-Sep-21	66.7	64.8	65.9
04-Oct-21	65.1	60.7	63.4
25-Oct-21	64.7	62.3	63.7
08-Nov-21	67.2	64.9	66.2
16-Nov-21	64.8	60.8	63.2
02-Dec-21	65.7	62.1	64.3
20-Dec-21	64.7	61.6	63.4
10-Jan-22	64.8	60.7	63.2
24-Jan-22	62.3	60.1	61.3
03-Feb-22	63.1	62.8	63.0
23-Feb-22	63.6	57.6	61.6
07-Mar-22	64.6	62.6	63.7
24-Mar-22	64.2	57.6	62.0
Brief Statistic	Day	Night	Leq DN
Minimum	62.3	56.6	61.0
Maximum	67.8	64.9	66.6
Mean	65.0	61.2	63.6
Noise Standard	75	70	

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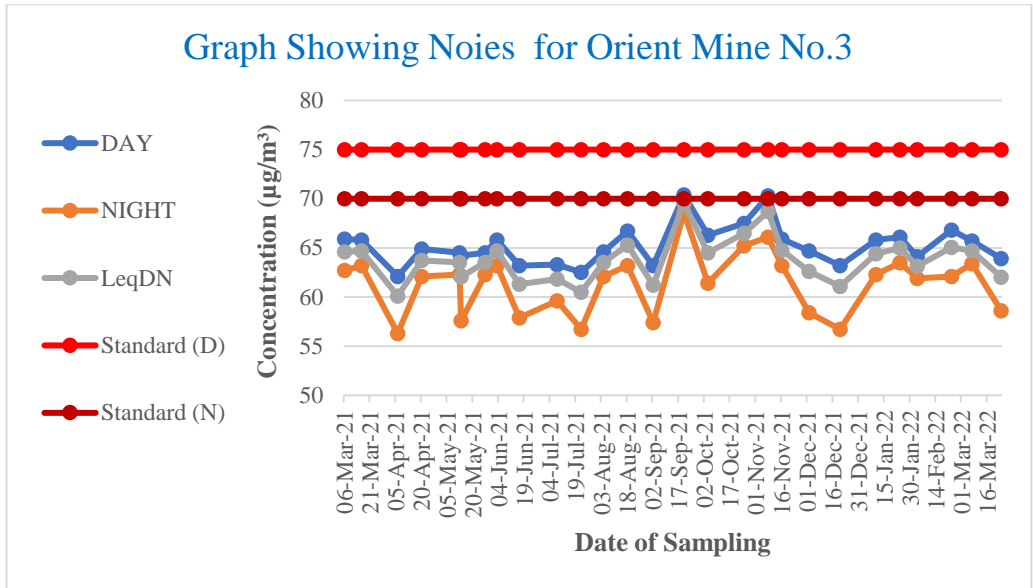
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Table: 8.27
Area: Orient
Project: Orient Mine No.3
Monitoring Station: Orient Mine No.3

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	65.9	62.7	64.6
16-Mar-21	65.8	63.2	64.7
06-Apr-21	62.1	56.3	60.1
20-Apr-21	64.9	62.1	63.7
12-May-21	64.5	62.3	63.5
13-May-21	64.2	57.6	62.0
27-May-21	64.5	62.3	63.5
03-Jun-21	65.8	63.2	64.7
16-Jun-21	63.2	57.9	61.3
08-Jul-21	63.3	59.6	61.8
22-Jul-21	62.5	56.7	60.5
04-Aug-21	64.6	62.1	63.5
18-Aug-21	66.7	63.2	65.3
02-Sep-21	63.2	57.4	61.2
20-Sep-21	70.4	68.6	69.6
04-Oct-21	66.3	61.4	64.5
25-Oct-21	67.5	65.2	66.5
08-Nov-21	70.3	66.1	68.7
16-Nov-21	65.9	63.2	64.8
02-Dec-21	64.7	58.4	62.6
20-Dec-21	63.2	56.7	61.1
10-Jan-22	65.8	62.3	64.4
24-Jan-22	66.1	63.5	65.0
03-Feb-22	64.1	61.9	63.1
23-Feb-22	66.8	62.1	65.1
07-Mar-22	65.7	63.4	64.7
24-Mar-22	63.9	58.6	62.0
Brief Statistic	Day	Night	Leq DN
Minimum	62.1	56.3	60.1
Maximum	70.4	68.6	69.6
Mean	65.3	61.4	63.8
Noise Standard	75	70	

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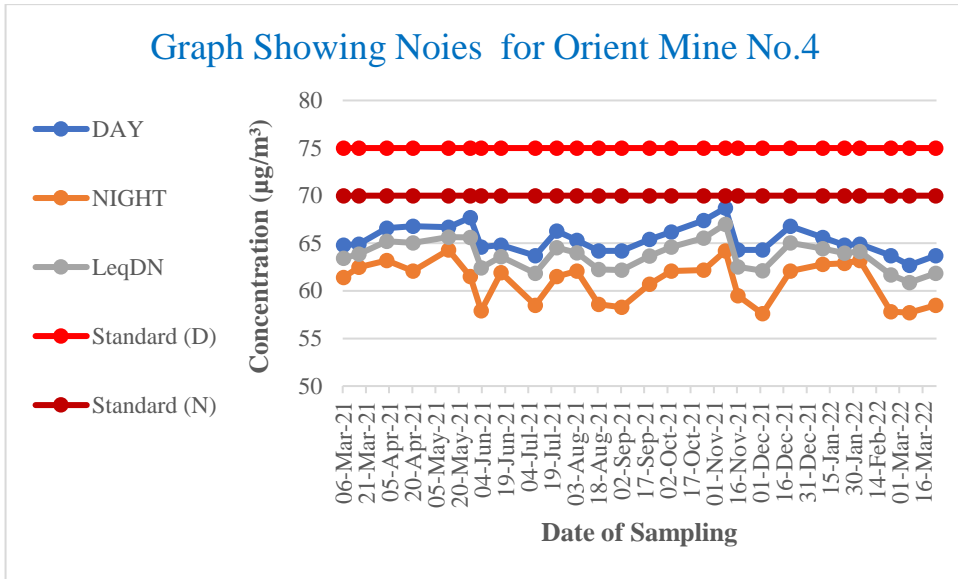
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Table: 8.28
Area: Orient
Project: Orient Mine No.4
Monitoring Station: Orient Mine No.4

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	64.8	61.4	63.4
16-Mar-21	64.9	62.5	63.9
03-Apr-21	66.6	63.2	65.2
20-Apr-21	66.8	62.1	65.1
13-May-21	66.7	64.3	65.7
27-May-21	67.7	61.5	65.6
03-Jun-21	64.6	57.9	62.4
16-Jun-21	64.8	61.9	63.6
08-Jul-21	63.7	58.5	61.8
22-Jul-21	66.3	61.5	64.5
04-Aug-21	65.3	62.1	64.0
18-Aug-21	64.2	58.6	62.2
02-Sep-21	64.2	58.3	62.2
20-Sep-21	65.4	60.7	63.7
04-Oct-21	66.2	62.1	64.6
25-Oct-21	67.4	62.2	65.5
08-Nov-21	68.7	64.2	67.0
16-Nov-21	64.3	59.5	62.5
02-Dec-21	64.3	57.6	62.1
20-Dec-21	66.8	62.1	65.1
10-Jan-22	65.6	62.8	64.4
24-Jan-22	64.8	62.9	64.0
03-Feb-22	64.9	63.2	64.1
23-Feb-22	63.7	57.8	61.7
07-Mar-22	62.7	57.7	60.9
24-Mar-22	63.7	58.5	61.8
Brief Statistic	Day	Night	Leq DN
Minimum	62.7	57.6	60.9
Maximum	68.7	64.3	67.0
Mean	65.4	61.0	63.7
Noise Standard	75	70	

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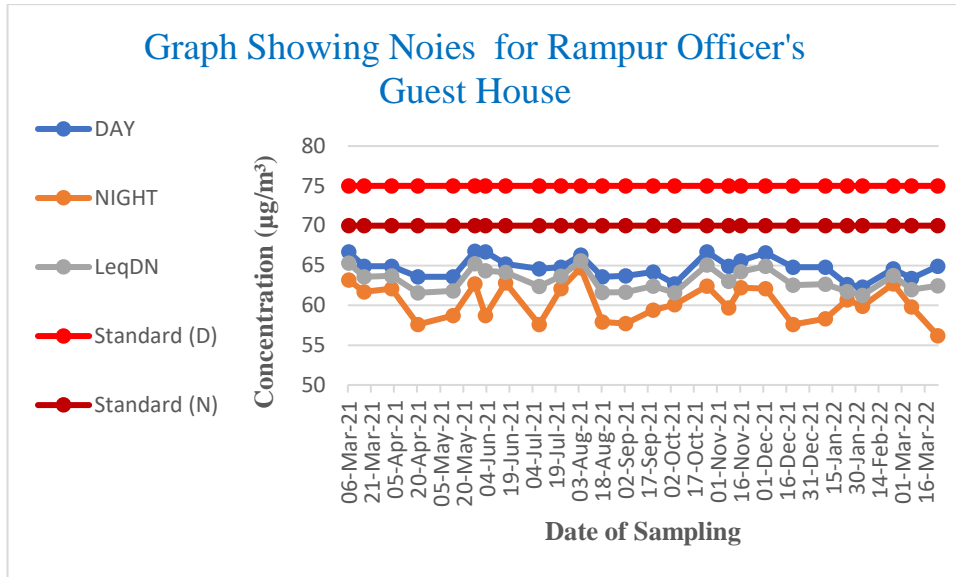
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Table: 8.29
Area: Orient
Project: HBI Mine
Monitoring Station: Rampur Officer's Guest House

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	66.7	63.2	65.3
16-Mar-21	64.9	61.7	63.6
03-Apr-21	64.9	62.1	63.7
20-Apr-21	63.6	57.6	61.6
13-May-21	63.6	58.7	61.8
27-May-21	66.8	62.7	65.2
03-Jun-21	66.7	58.7	64.3
16-Jun-21	65.2	62.8	64.2
08-Jul-21	64.6	57.6	62.4
22-Jul-21	64.8	62.1	63.7
04-Aug-21	66.3	64.7	65.6
18-Aug-21	63.6	57.9	61.6
02-Sep-21	63.7	57.7	61.7
20-Sep-21	64.2	59.4	62.4
04-Oct-21	62.7	60.1	61.6
25-Oct-21	66.7	62.4	65.1
08-Nov-21	64.9	59.7	63.0
16-Nov-21	65.6	62.2	64.2
02-Dec-21	66.6	62.1	64.9
20-Dec-21	64.8	57.6	62.5
10-Jan-22	64.8	58.3	62.7
24-Jan-22	62.6	60.7	61.8
03-Feb-22	62.3	59.9	61.3
23-Feb-22	64.6	62.7	63.8
07-Mar-22	63.4	59.8	62.0
24-Mar-22	64.9	56.2	62.4
Brief Statistic	Day	Night	Leq DN
Minimum	62.3	56.2	61.3
Maximum	66.8	64.7	65.6
Mean	64.8	60.3	63.2
Noise Standard	75	70	

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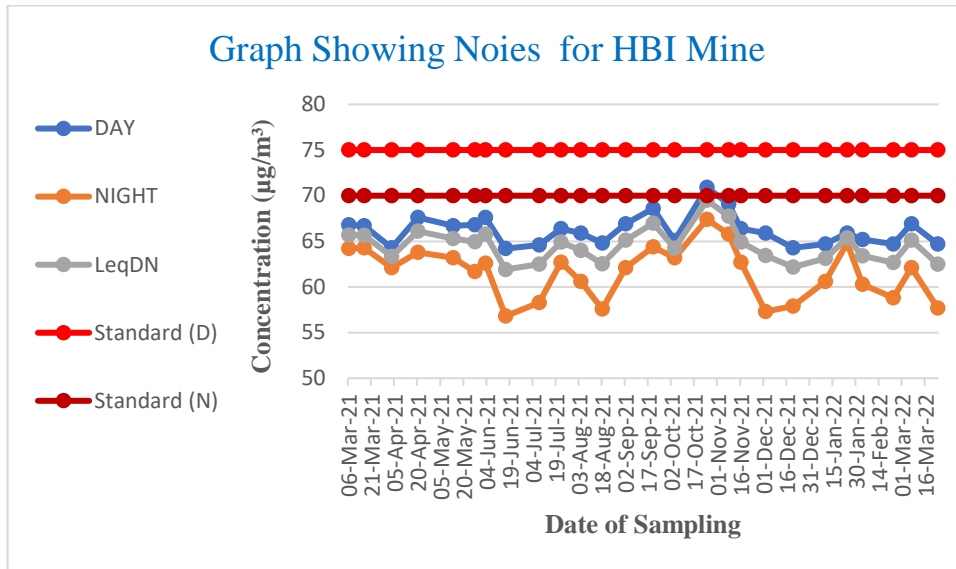
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Table: 8.30
Area: Orient
Project: HBI Mine
Monitoring Station: HBI Mine

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	66.8	64.2	65.7
16-Mar-21	66.7	64.3	65.7
03-Apr-21	64.3	62.1	63.3
20-Apr-21	67.6	63.8	66.1
13-May-21	66.7	63.2	65.3
27-May-21	66.8	61.7	65.0
03-Jun-21	67.6	62.6	65.8
16-Jun-21	64.2	56.8	61.9
08-Jul-21	64.6	58.3	62.5
22-Jul-21	66.4	62.7	64.9
04-Aug-21	65.9	60.6	64.0
18-Aug-21	64.8	57.6	62.5
02-Sep-21	66.9	62.1	65.1
20-Sep-21	68.6	64.4	67.0
04-Oct-21	65.1	63.2	64.3
25-Oct-21	70.9	67.4	69.5
08-Nov-21	69.1	65.8	67.8
16-Nov-21	66.4	62.7	64.9
02-Dec-21	65.9	57.3	63.5
20-Dec-21	64.3	57.9	62.2
10-Jan-22	64.7	60.6	63.1
24-Jan-22	65.9	64.8	65.4
03-Feb-22	65.2	60.3	63.4
23-Feb-22	64.7	58.8	62.7
07-Mar-22	66.9	62.1	65.1
24-Mar-22	64.7	57.7	62.5
Brief Statistic	Day	Night	Leq DN
Minimum	64.2	56.8	61.9
Maximum	70.9	67.4	69.5
Mean	66.2	61.7	64.6
Noise Standard	75	70	

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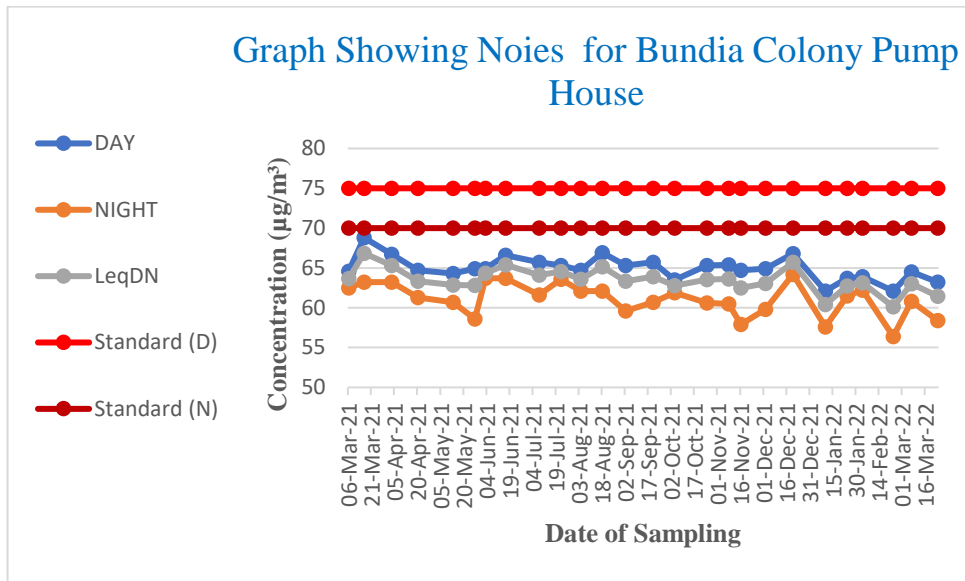
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Table: 8.31
Area: Orient
Project: HBI Mine
Monitoring Station: Bundia Colony Pump House

DATE	DAY	NIGHT	LeqDN(dB)
06-Mar-21	64.6	62.5	63.7
16-Mar-21	68.8	63.2	66.8
03-Apr-21	66.7	63.2	65.3
20-Apr-21	64.7	61.3	63.3
13-May-21	64.3	60.7	62.9
27-May-21	64.9	58.6	62.8
03-Jun-21	64.9	63.7	64.3
16-Jun-21	66.6	63.7	65.4
08-Jul-21	65.7	61.6	64.1
22-Jul-21	65.3	63.6	64.5
04-Aug-21	64.7	62.1	63.6
18-Aug-21	66.9	62.1	65.1
02-Sep-21	65.3	59.6	63.3
20-Sep-21	65.7	60.7	63.9
04-Oct-21	63.5	61.9	62.8
25-Oct-21	65.3	60.6	63.6
08-Nov-21	65.4	60.5	63.6
16-Nov-21	64.7	57.9	62.5
02-Dec-21	64.9	59.8	63.1
20-Dec-21	66.8	64.2	65.7
10-Jan-22	62.1	57.6	60.4
24-Jan-22	63.7	61.5	62.7
03-Feb-22	63.9	62.2	63.1
23-Feb-22	62.1	56.4	60.1
07-Mar-22	64.5	60.8	63.0
24-Mar-22	63.2	58.4	61.4
Brief Statistic	Day	Night	Leq DN
Minimum	62.1	56.4	60.1
Maximum	68.8	64.2	66.8
Mean	65.0	61.1	63.5
Noise Standard	75	70	

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Picture 3 Noise Monitoring at Station

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Picture 3 Noise Meter used for measuring Noise

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EFFLUENT QUALITY

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TABLE NO 9 FOR EFFLUENT QUALITY DATA

Table:9.1

Area: Ib valley

Project: Samleswari OCP

Monitoring station: Mine Sump Water Discharge Point

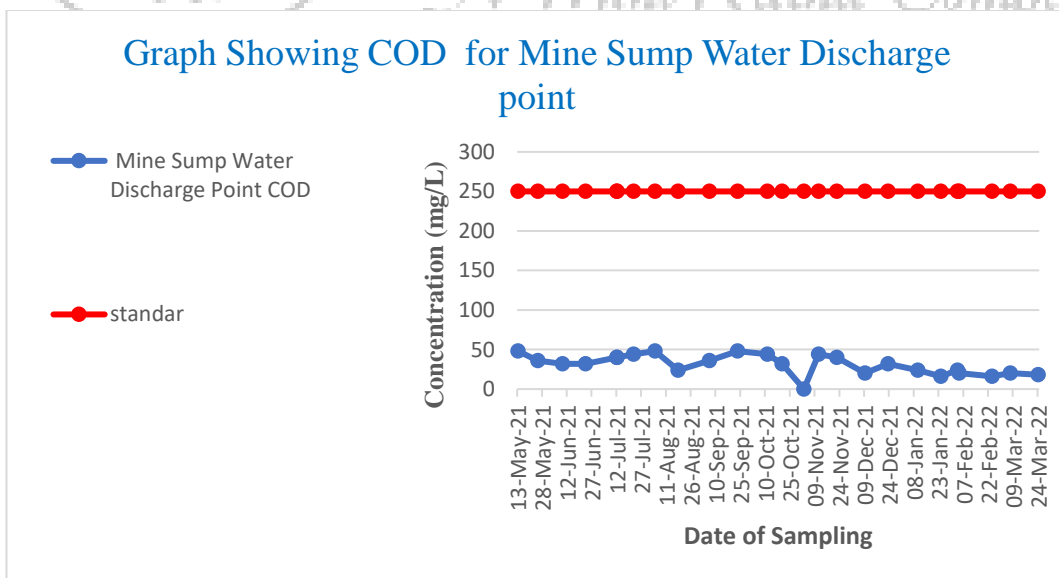
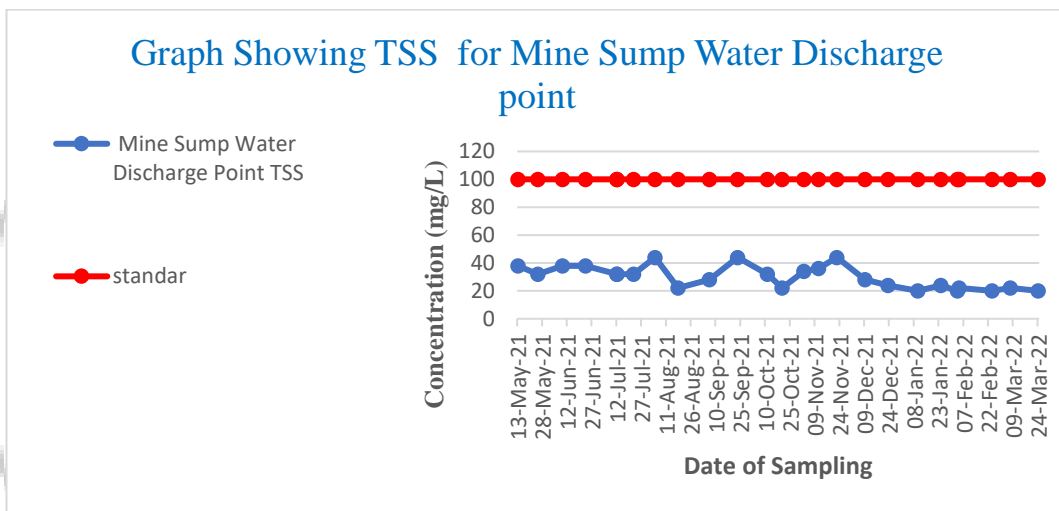
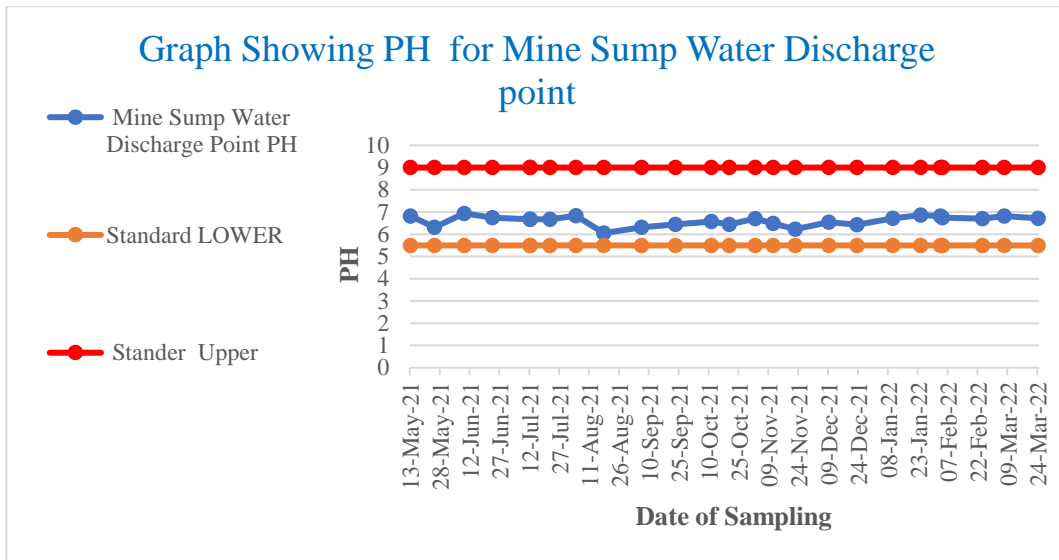
Date of Sampling	pH	Oil & Grease	TSS	COD
13-May-21	6.82	<4.0	38	48
25-May-21	6.31	<4.0	32	36
9-Jun-21	6.94	<4.0	38	32
23-Jun-21	6.74	<4.0	38	32
12-Jul-21	6.68	<4.0	32	40
12-Jul-21	6.68	<4.0	32	40
22-Jul-21	6.67	<4.0	32	44
4-Aug-21	6.83	<4.0	44	48
18-Aug-21	6.05	<4.0	22	24
6-Sep-21	6.32	<4.0	28	36
23-Sep-21	6.45	<4.0	44	48
11-Oct-21	6.57	<4.0	32	44
20-Oct-21	6.45	<4.0	22	32
2-Nov-21	6.7		34	N/A
11-Nov-21	6.48	<4.0	36	44
22-Nov-21	6.23	<4.0	44	40
9-Dec-21	6.55	<4.0	28	20
23-Dec-21	6.43	<4.0	24	32
10-Jan-22	6.71	<4.0	20	24
24-Jan-22	6.86	<4.0	24	16
3-Feb-22	6.82	<4.0	20	24
4-Feb-22	6.75	<4.0	22	20
24-Feb-22	6.7	<4.0	20	16
7-Mar-22	6.82	<4.0	22	20
24-Mar-22	6.71	<4.0	20	18

All dimensions are in mg/l unless otherwise stated except pH

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:9.2

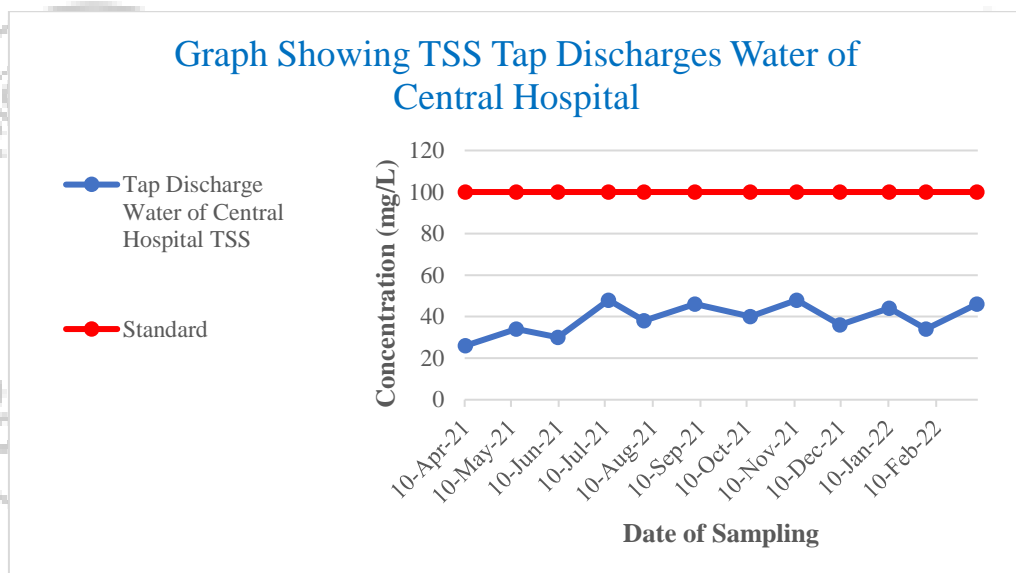
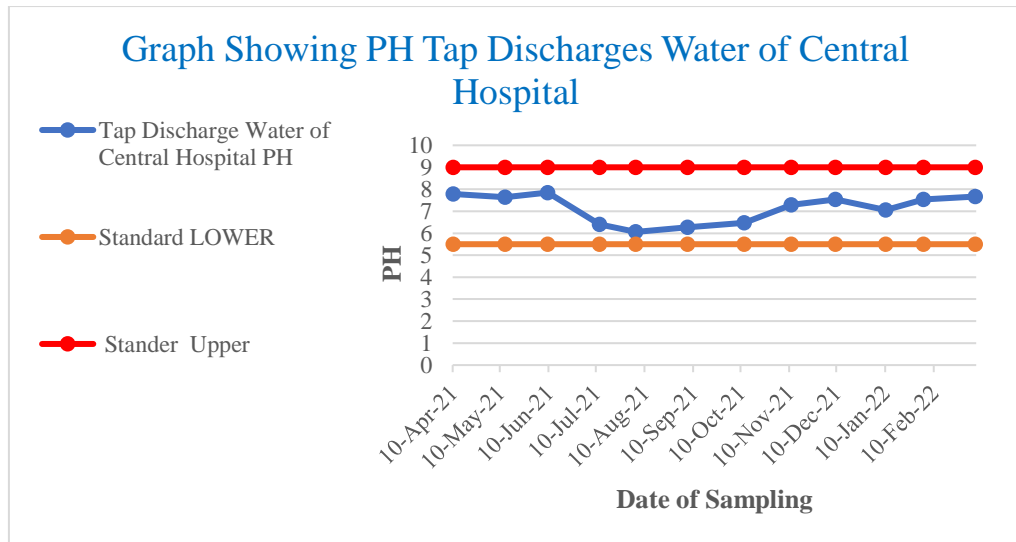
Area: Ib valley**Project:** Central Hospital**Monitoring station:** Tap Discharge Water of Central Hospital

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	7.78	<4.0	26	16
13-May-21	7.64	<4.0	34	20
09-Jun-21	7.85	<4.0	30	20
12-Jul-21	6.4	<4.0	48	24
04-Aug-21	6.06	<4.0	38	20
06-Sep-21	6.27	<4.0	46	28
12-Oct-21	6.47	<4.0	40	36
11-Nov-21	7.29	<4.0	48	40
09-Dec-21	7.53	<4.0	36	16
10-Jan-22	7.05	<4.0	44	36
03-Feb-22	7.53	<4.0	34	36
08-Mar-22	7.67	<4.0	46	28

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

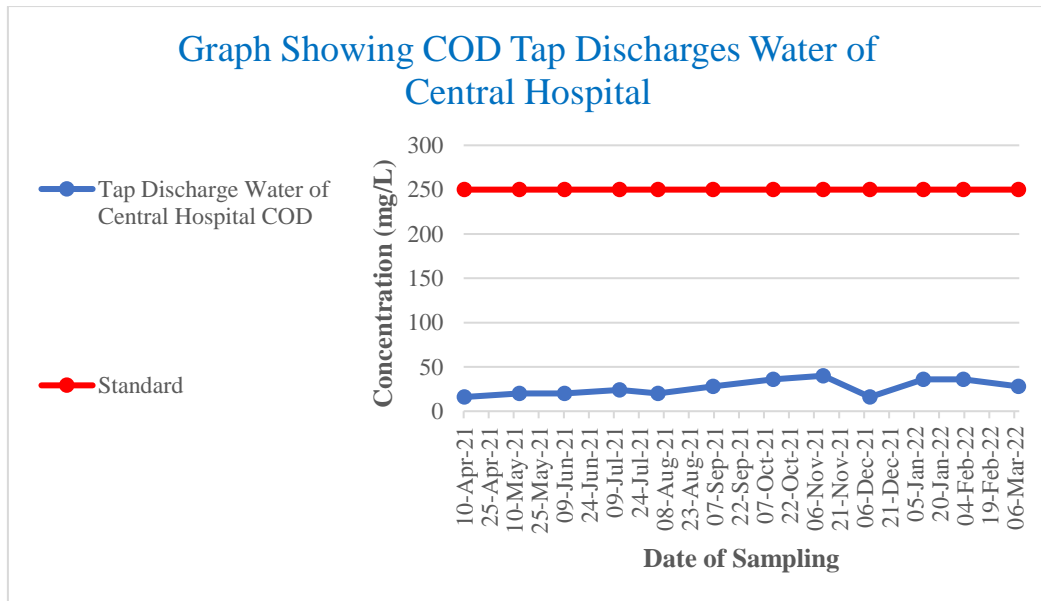
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Table:9.3

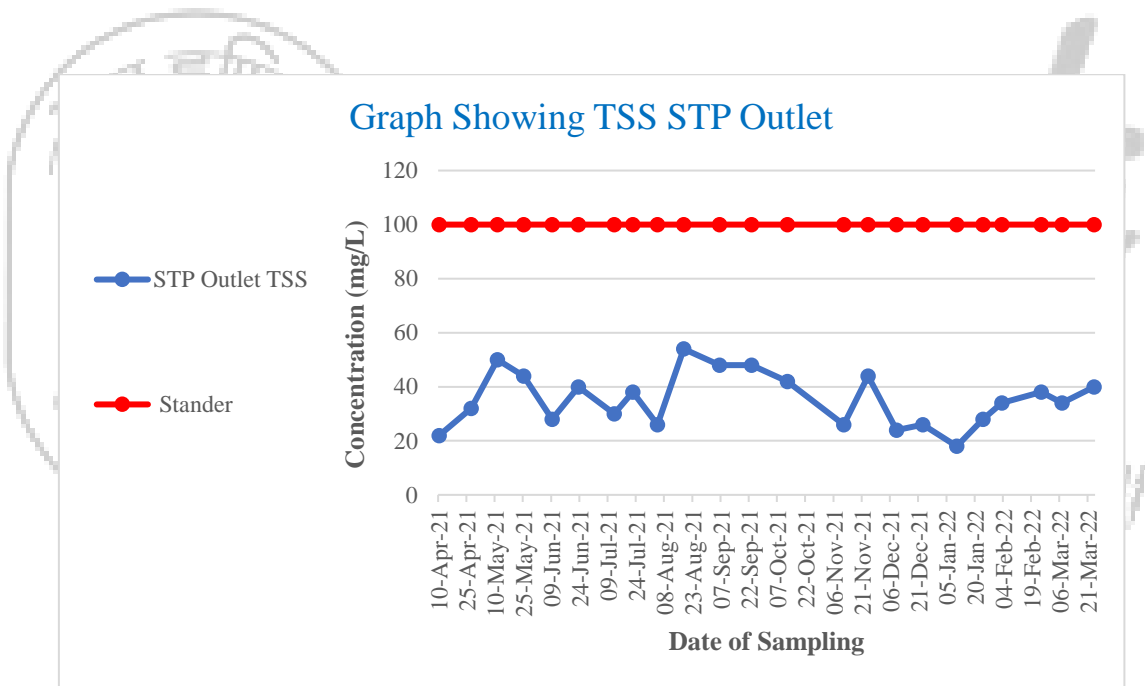
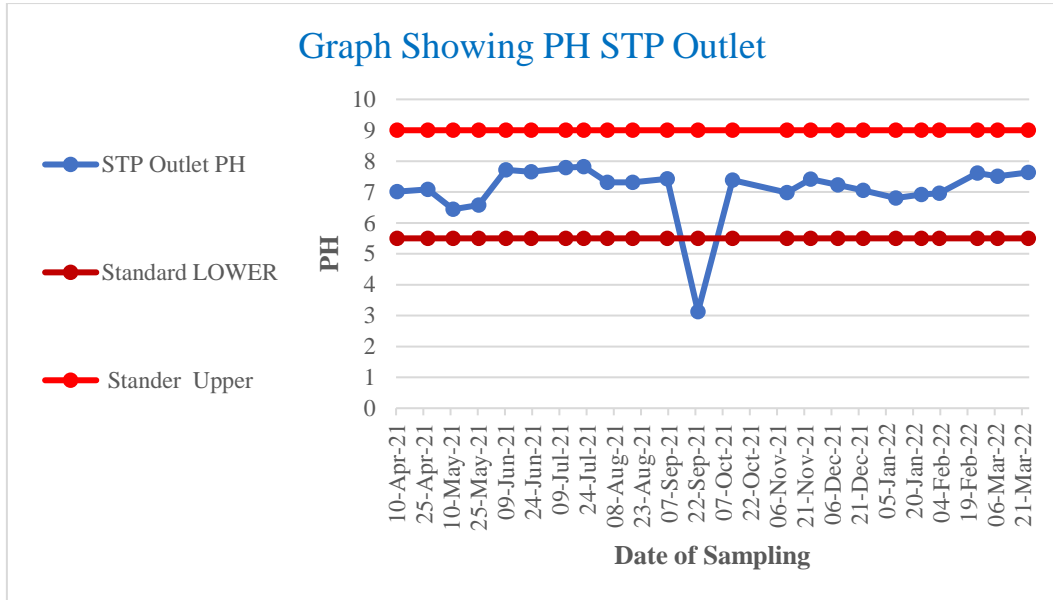
Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** STP Outlet

Date of Sampling	pH	TSS	BOD
10-Apr-21	7.01	22	<2.0
27-Apr-21	7.08	32	<2.0
11-May-21	6.44	50	<2.0
25-May-21	6.58	44	<2.0
09-Jun-21	7.72	28	<2.0
23-Jun-21	7.66	40	<2.0
12-Jul-21	7.79	30	<2.0
22-Jul-21	7.82	38	<2.0
04-Aug-21	7.31	26	<2.0
18-Aug-21	7.31	54	<2.0
06-Sep-21	7.43	48	<2.0
23-Sep-21	3.13	48	<2.0
12-Oct-21	7.39	42	<2.0
11-Nov-21	6.98	26	<2.0
24-Nov-21	7.42	44	<2.0
09-Dec-21	7.23	24	<2.0
23-Dec-21	7.05	26	<2.0
10-Jan-22	6.8	18	<2.0
24-Jan-22	6.92	28	<2.0
03-Feb-22	6.96	34	<2.0
24-Feb-22	7.61	38	<2.0
07-Mar-22	7.51	34	<2.0
24-Mar-22	7.63	40	<2.0

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:9.4

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

Date of Sampling	pH	TSS	BOD
11-May-21	6.38	62	<2.0
04-Aug-21	6.98	32	<2.0
20-Oct-21	7.03	40	<2.0
11-Nov-21	6.92	34	<2.0
03-Feb-22	6.77	42	<2.0

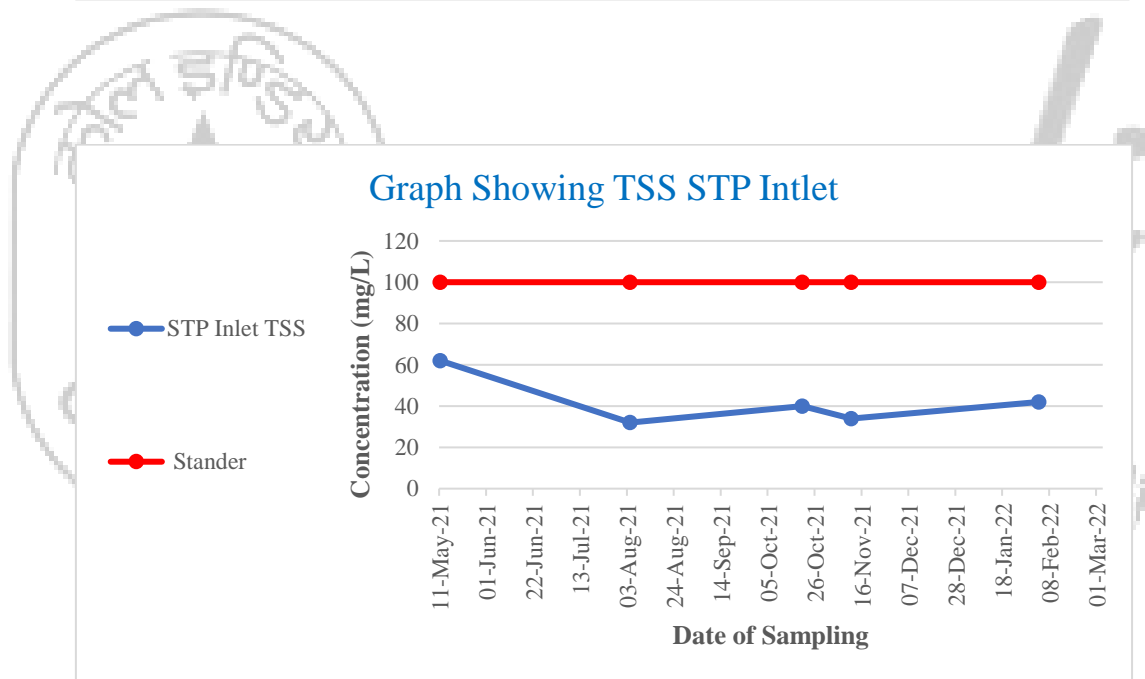
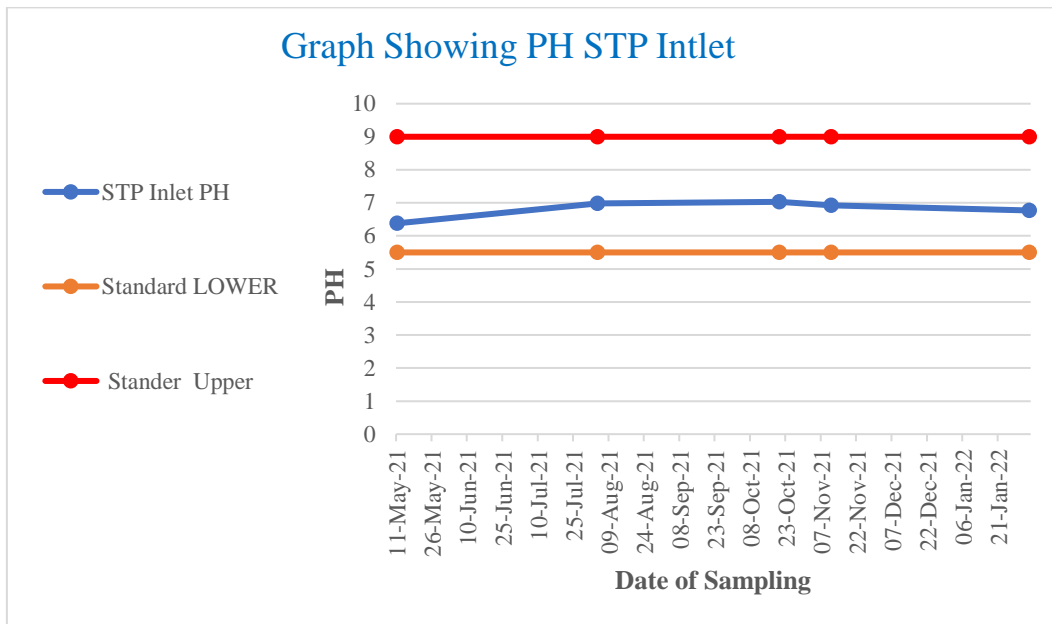
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.5

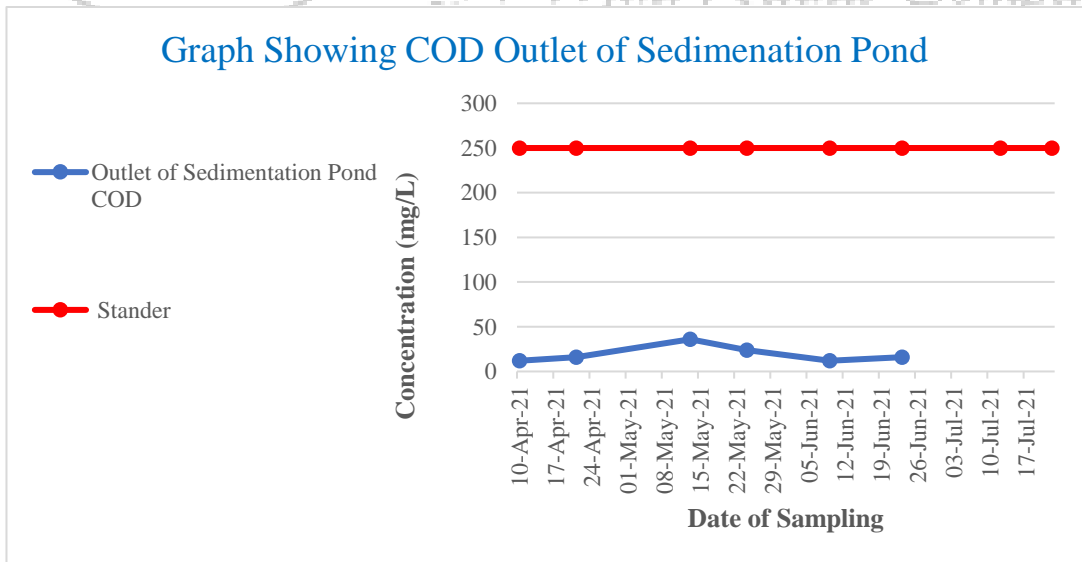
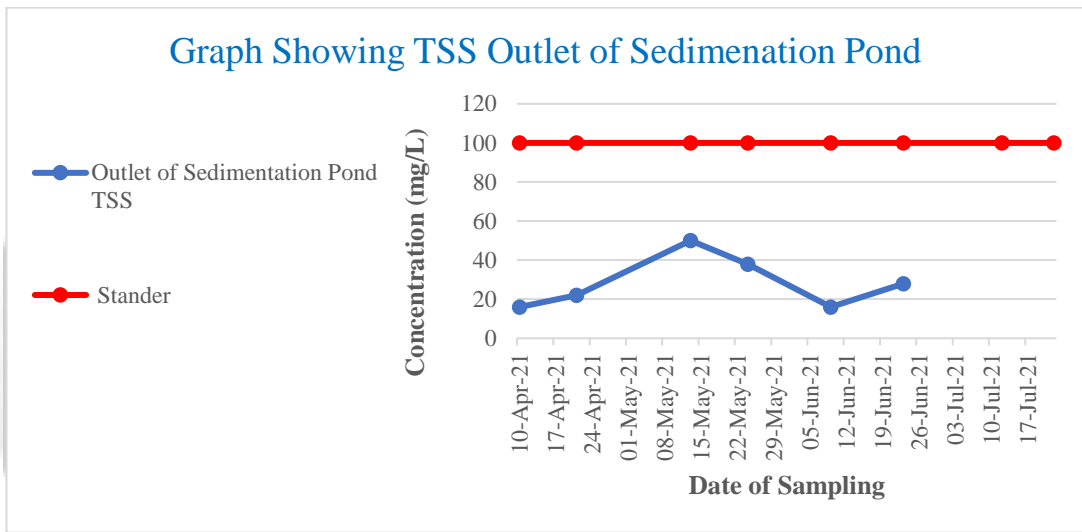
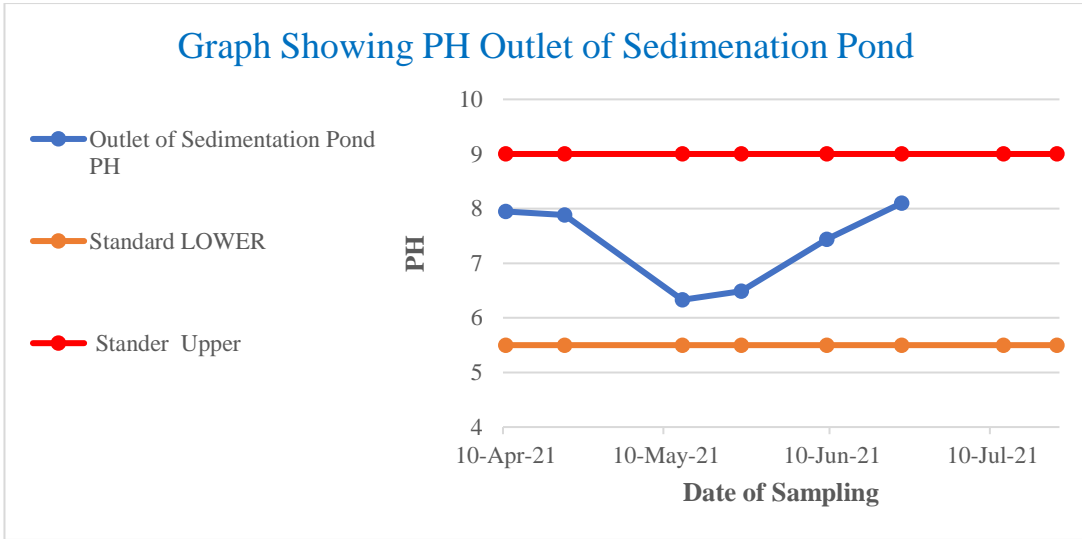
Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** Outlet of Sedimentation Pond

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	7.95	<4.0	16	12
21-Apr-21	7.88	<4.0	22	16
13-May-21	6.33	<4.0	50	36
24-May-21	6.49	<4.0	38	24
09-Jun-21	7.44	<4.0	16	12
23-Jun-21	8.1	<4.0	28	16
12-Jul-21	N/A	N/A	N/A	N/A
22-Jul-21	N/A	N/A	N/A	N/A

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:9.6

Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** O&G Trap Inlet

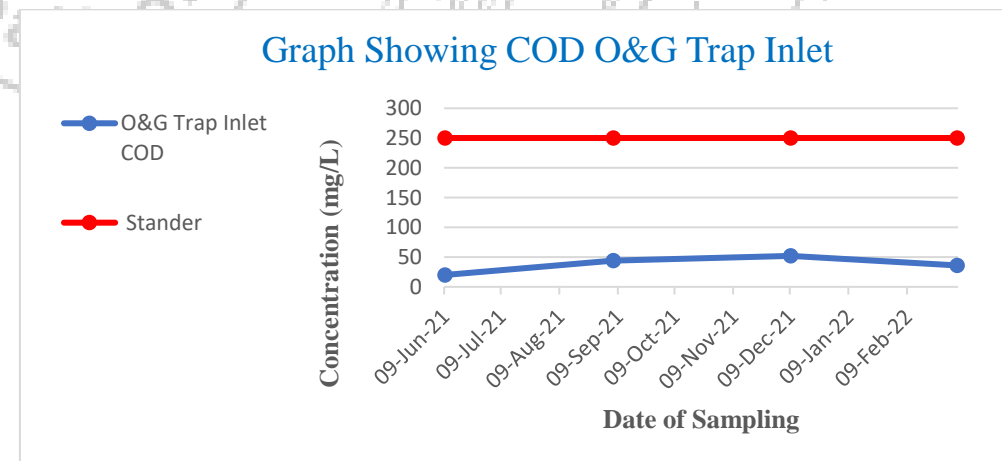
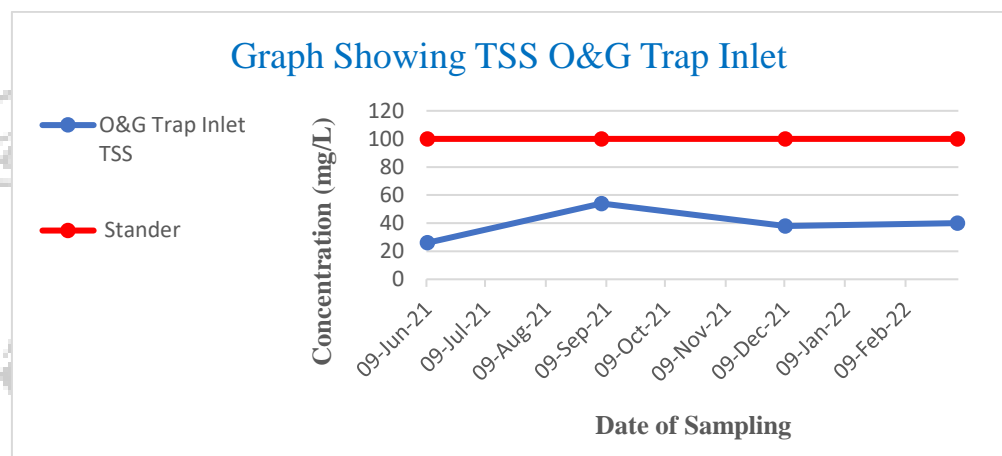
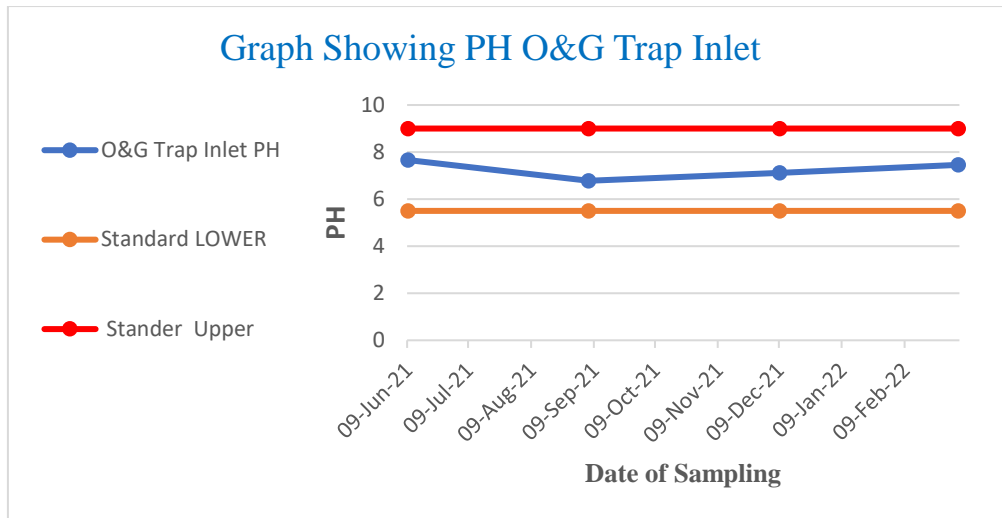
Date of Sampling	pH	Oil & Grese	TSS	COD	
9-Jun-21	7.66	<4.0	26	20	
6-Sep-21	6.78	<4.0	54	44	
9-Dec-21	7.12	<4.0	38	52	
7-Mar-22	7.46	<4.0	40	36	
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents		pH	Oil & Grease	TSS	COD
		5.5-9.0	10	100	250



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Table:9.7

Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** O&G Trap Outlet

Date of Sampling	pH	Oil & Grese	TSS	COD
9-Jun-21	7.74	<4.0	20	16
6-Sep-21	6.96	<4.0	36	28
9-Dec-21	8.39	<4.0	28	36
7-Mar-22	7.52	<4.0	32	28

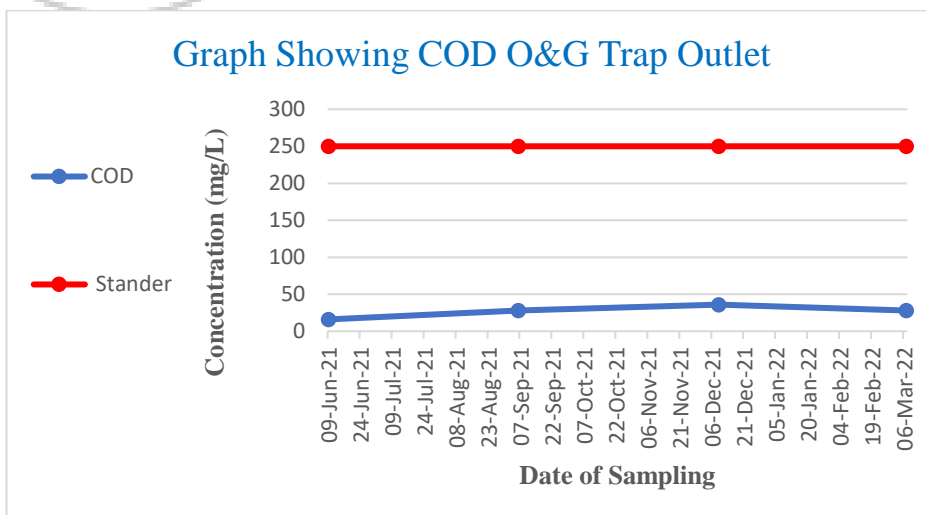
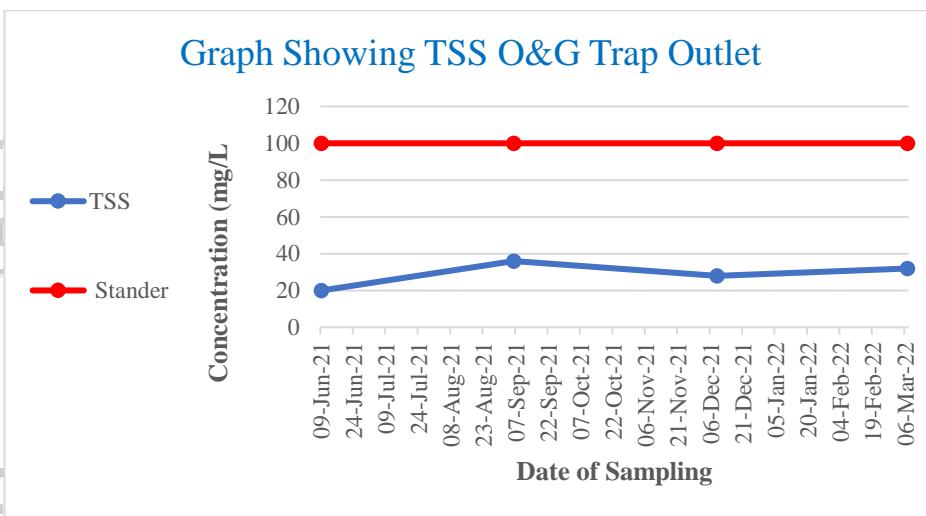
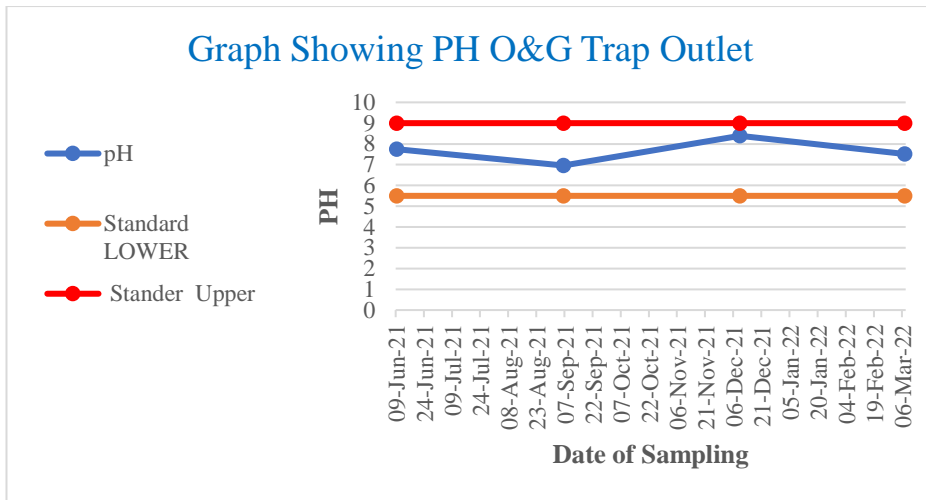
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.8

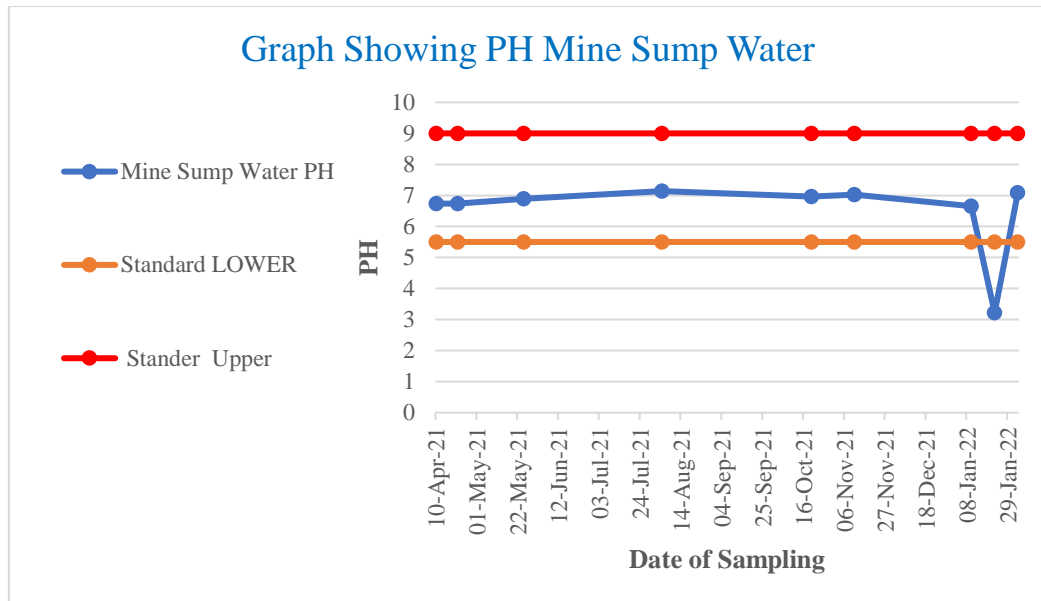
Area: Ib valley**Project:** Samleswari OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	6.74	<4.0	36	40
21-Apr-21	6.74	<4.0	28	40
25-May-21	6.89	N/A	N/A	N/A
04-Aug-21	7.14	N/A	N/A	N/A
20-Oct-21	6.96	N/A	N/A	N/A
11-Nov-21	7.03	N/A	N/A	N/A
10-Jan-22	6.65	N/A	N/A	N/A
22-Jan-22	3.22	N/A	N/A	N/A
03-Feb-22	7.09	N/A	N/A	N/A

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:9.9

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

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	6.92	<4.0	20	12
13-May-21	7.05	<4.0	24	16
09-Jun-21	7.62	<4.0	20	12
12-Jul-21	N/A	N/A	N/A	N/A
10-Apr-21	6.92	<4.0	20	12

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:9.10

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

Date of Sampling	pH	Oil & Grease	TSS	COD
13-May-21	6.69	<4.0	46	36
04-Aug-21	5.56	<4.0	56	40
11-Nov-21	3.15	<4.0	54	44
03-Feb-22	6.55	<4.0	62	44

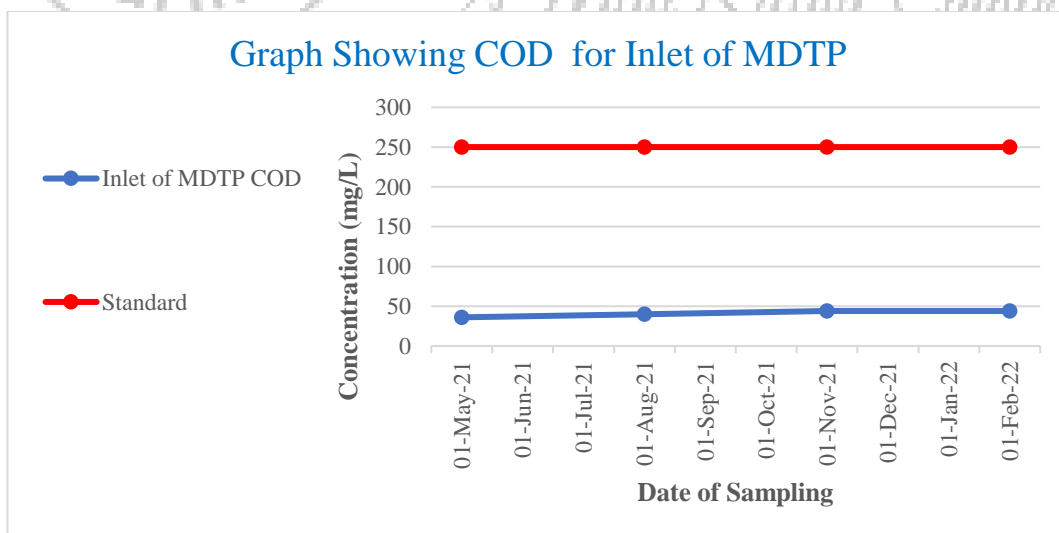
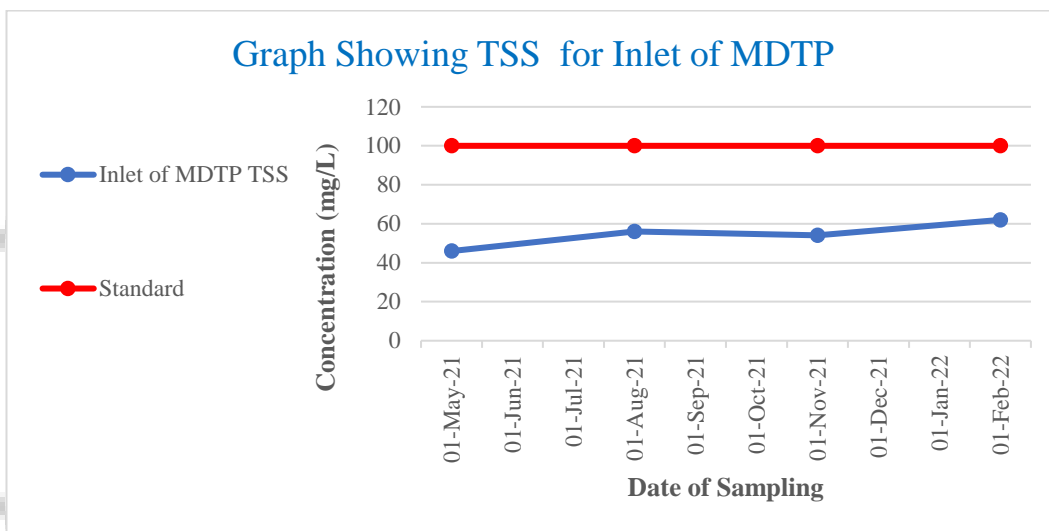
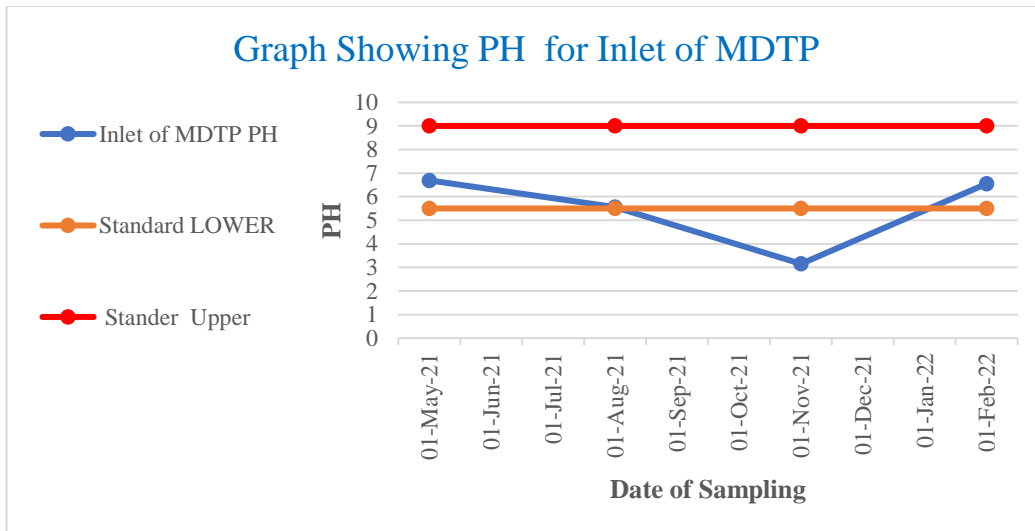
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.11

Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Inlet of Oil & Grease Trap

Date of Sampling	pH	Oil & Grease	TSS	COD
13-May-21	6.29	<4.0	54	48
06-Aug-21	6.66	<4.0	38	24
11-Nov-21	6.84	<4.0	42	28
03-Feb-22	6.17	<4.0	46	36

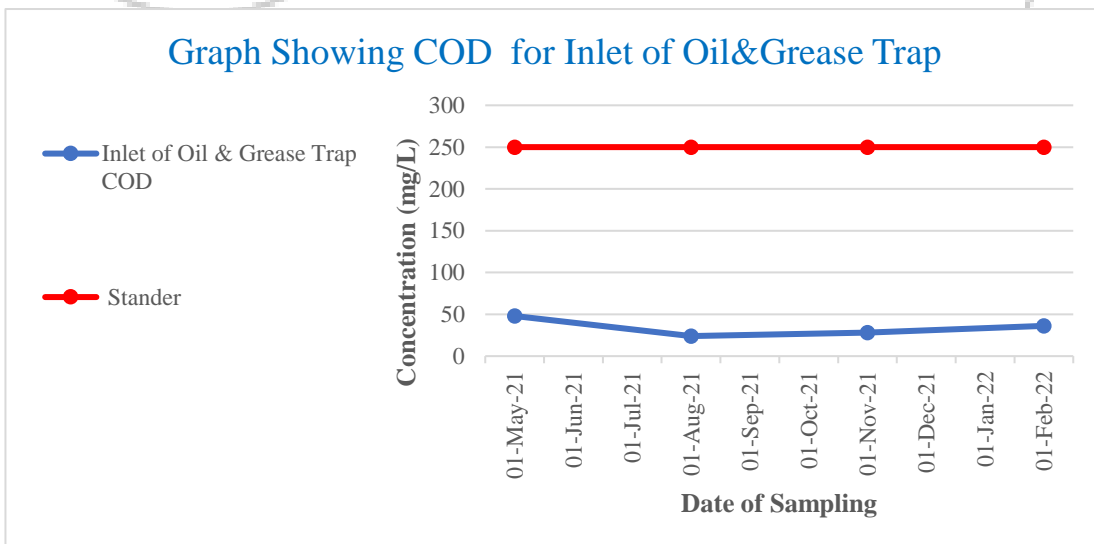
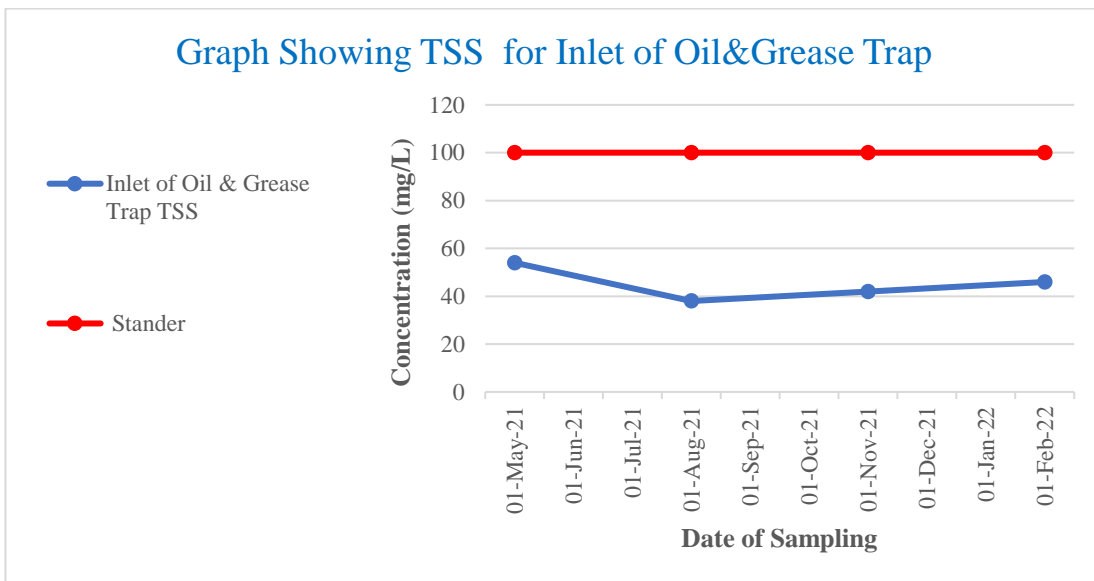
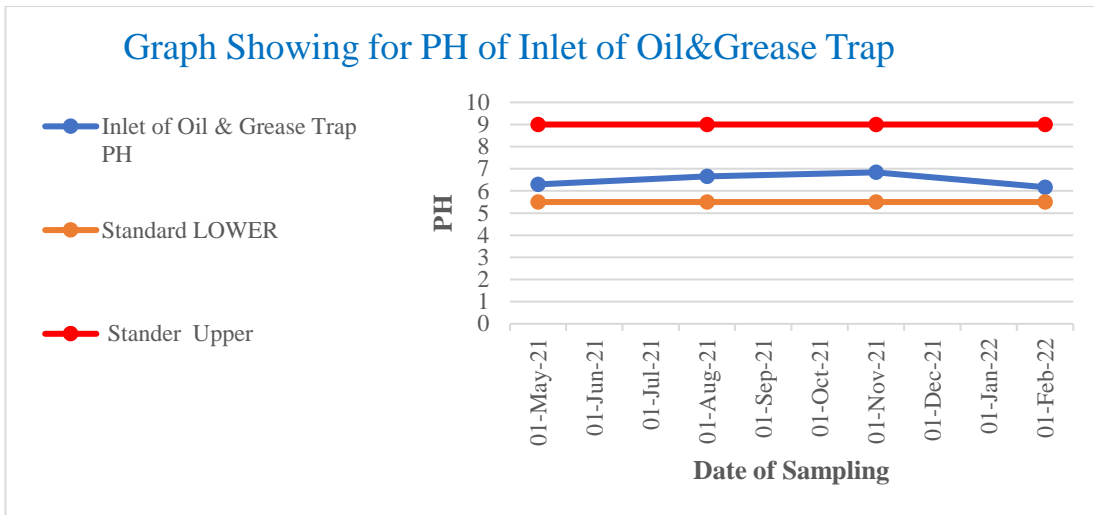
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.12

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

Date of Sampling	pH
11-May-21	6.63
04-Aug-21	6.33
11-Nov-21	2.89
10-Jan-22	6.76
24-Jan-22	6.25
03-Feb-22	6.79

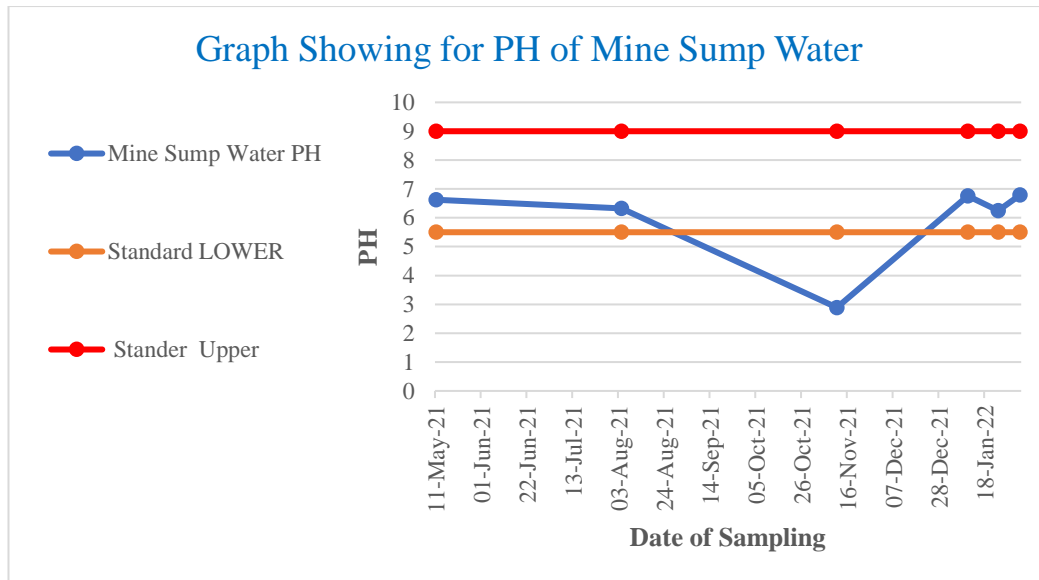
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.13

Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** Outlet of Oil & Grease Trap

Date of Sampling	pH	Oil & Grease	TSS	COD
13-May-21	6.47	<4.0	40	36
04-Aug-21	6.75	<4.0	30	16
11-Nov-21	6.32	<4.0	38	32
03-Feb-22	6.28	<4.0	42	32

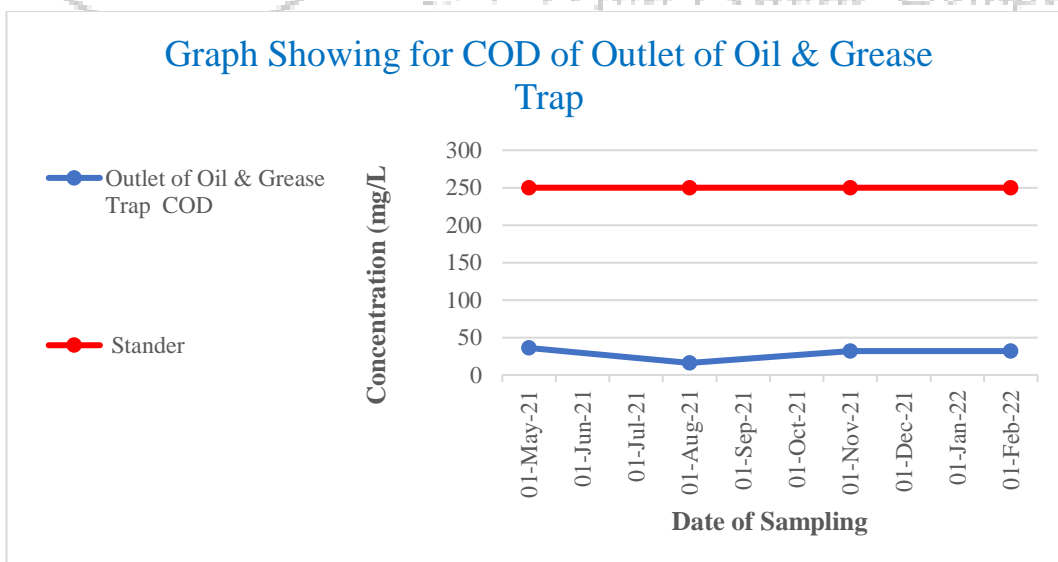
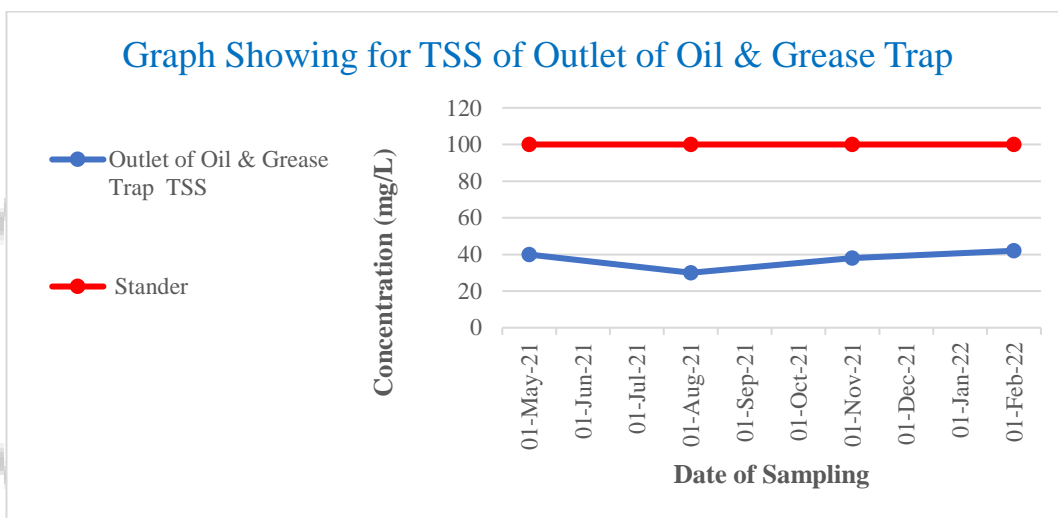
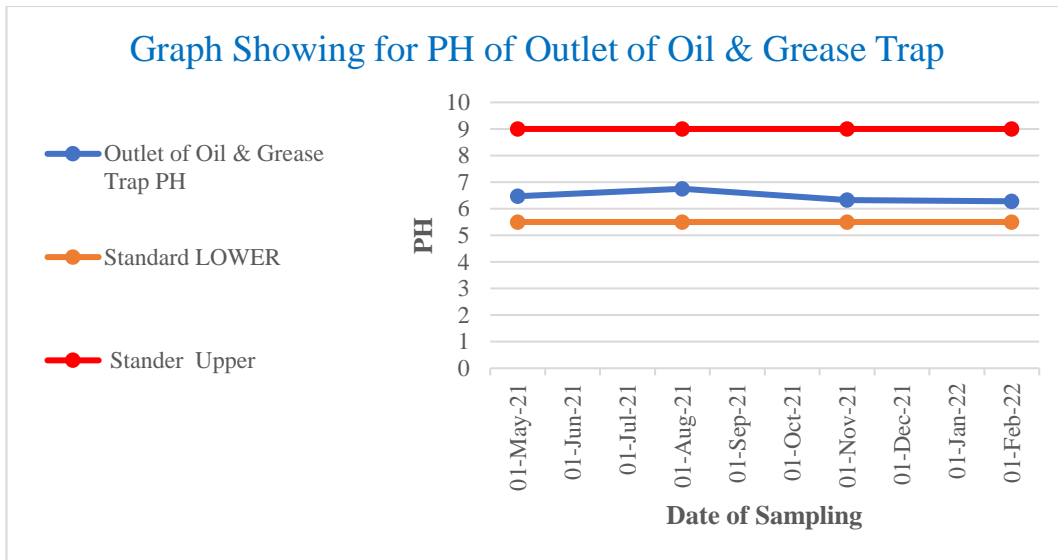
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.14

Area: Ib valley

Project: Lajkura OCP

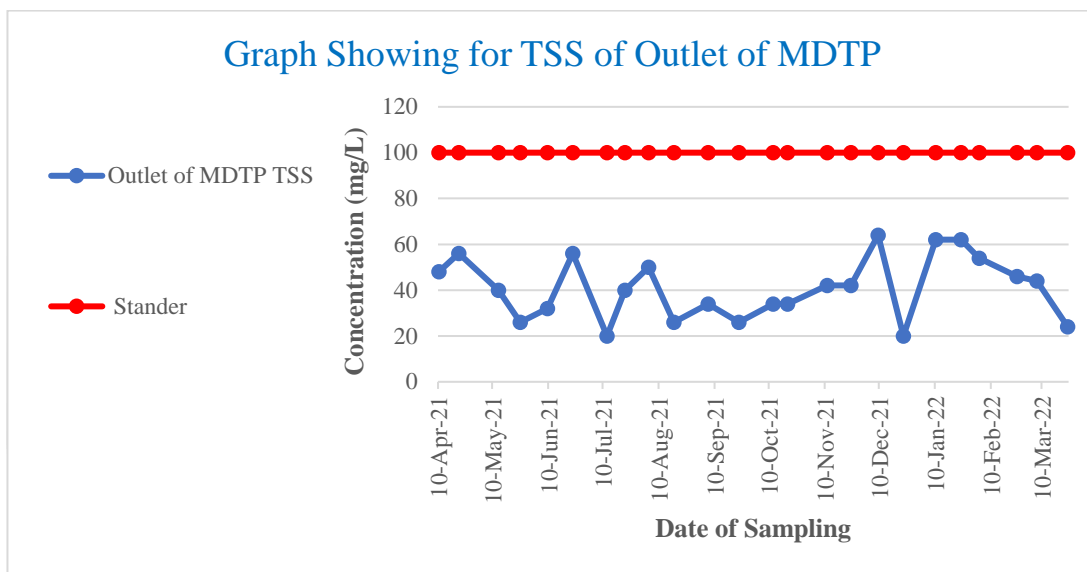
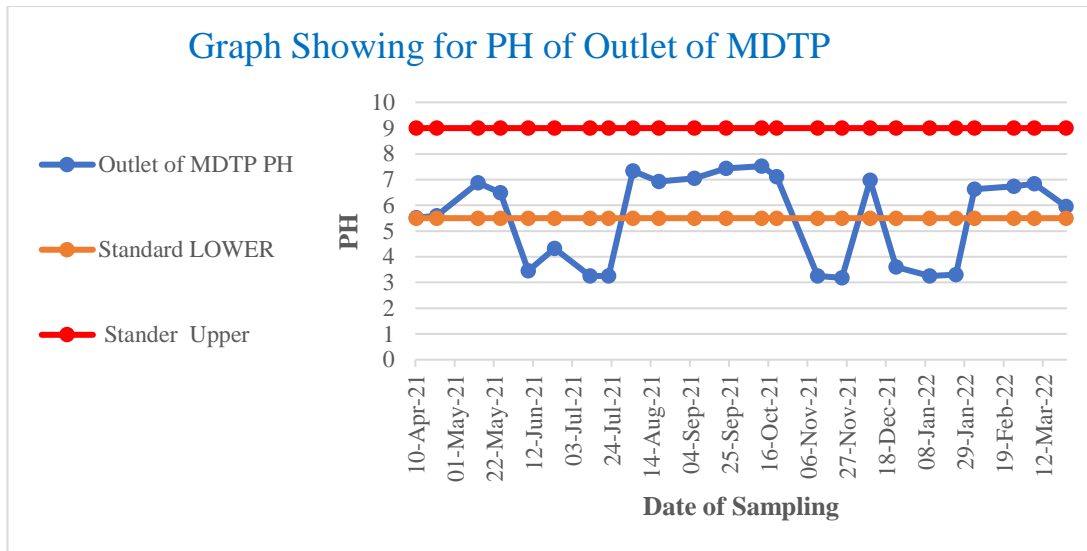
Monitoring station: Outlet of MDTP

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	5.52	<4.0	48	28
21-Apr-21	5.59	<4.0	56	36
13-May-21	6.87	<4.0	40	32
25-May-21	6.49	<4.0	26	16
09-Jun-21	3.46	<4.0	32	24
23-Jun-21	4.33	<4.0	56	32
12-Jul-21	3.25	<4.0	20	12
22-Jul-21	3.26	<4.0	40	28
04-Aug-21	7.34	<4.0	50	32
18-Aug-21	6.93	<4.0	26	16
06-Sep-21	7.05	<4.0	34	24
23-Sep-21	7.44	<4.0	26	20
12-Oct-21	7.52	<4.0	34	28
20-Oct-21	7.11	<4.0	34	28
11-Nov-21	3.25	<4.0	42	36
24-Nov-21	3.18	<4.0	42	36
09-Dec-21	6.98	<4.0	64	32
23-Dec-21	3.6	<4.0	20	36
10-Jan-22	3.25	<4.0	62	40
24-Jan-22	3.3	<4.0	62	36
03-Feb-22	6.63	<4.0	54	40
24-Feb-22	6.74	<4.0	46	44
07-Mar-22	6.84	<4.0	44	32
24-Mar-22	5.96	<4.0	24	16

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:9.15

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

Date of Sampling	pH	TSS	BOD
11-May-21	6.44	52	<2.0
04-Aug-21	6.37	30	<2.0
11-Nov-21	6.23	48	<2.0
03-Feb-22	-	-	-

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:9.16

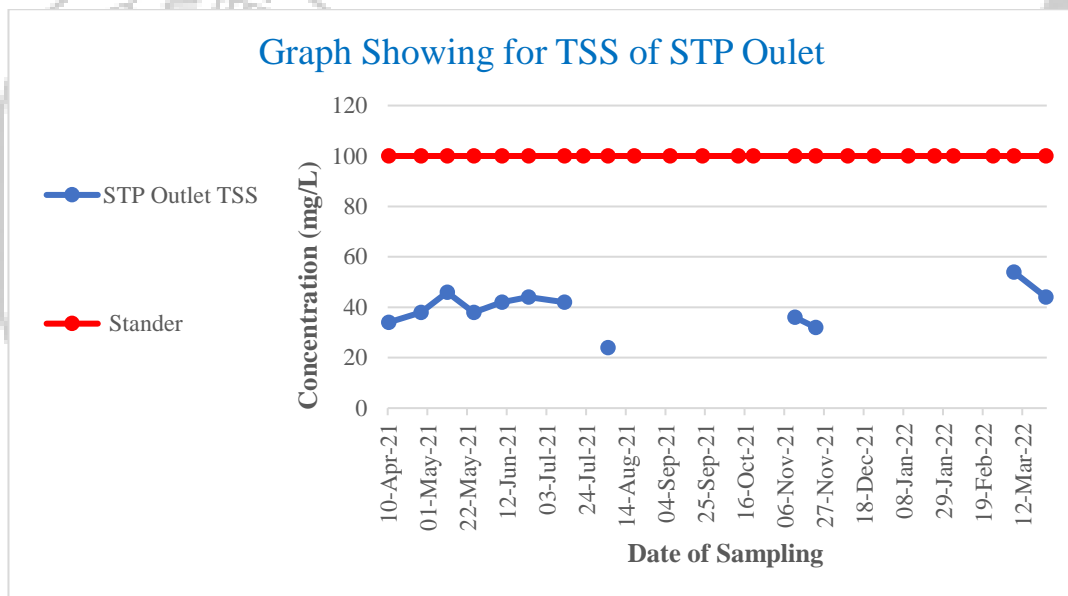
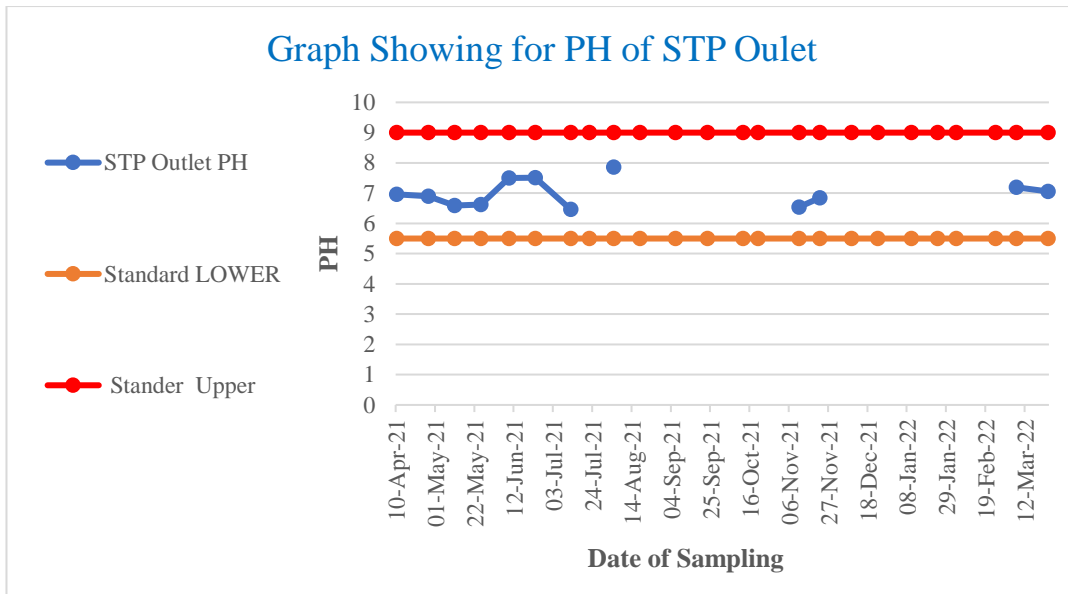
Area: Ib valley**Project:** Lajkura OCP**Monitoring station:** STP Outlet

Date of Sampling	pH	TSS	BOD
10-Apr-21	7	34	<2.0
27-Apr-21	6.9	38	<2.0
11-May-21	6.6	46	<2.0
25-May-21	6.6	38	<2.0
09-Jun-21	7.5	42	<2.0
23-Jun-21	7.5	44	<2.0
12-Jul-21	6.5	42	<2.0
22-Jul-21	N/A	N/A	N/A
04-Aug-21	7.9	24	<2.0
18-Aug-21	N/A	N/A	N/A
06-Sep-21	N/A	N/A	N/A
23-Sep-21	N/A	N/A	N/A
12-Oct-21	N/A	N/A	N/A
20-Oct-21	N/A	N/A	N/A
11-Nov-21	6.5	36	<2.0
22-Nov-21	6.8	32	<2.0
09-Dec-21	N/A	N/A	N/A
23-Dec-21	N/A	N/A	N/A
10-Jan-22	N/A	N/A	N/A
24-Jan-22	N/A	N/A	N/A
03-Feb-22	N/A	N/A	N/A
24-Feb-22	N/A	N/A	N/A
07-Mar-22	7.2	54	<2
24-Mar-22	7.1	44	<2

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:9.17

Area: Lakhanpur

Project: Lakhanpur OCP

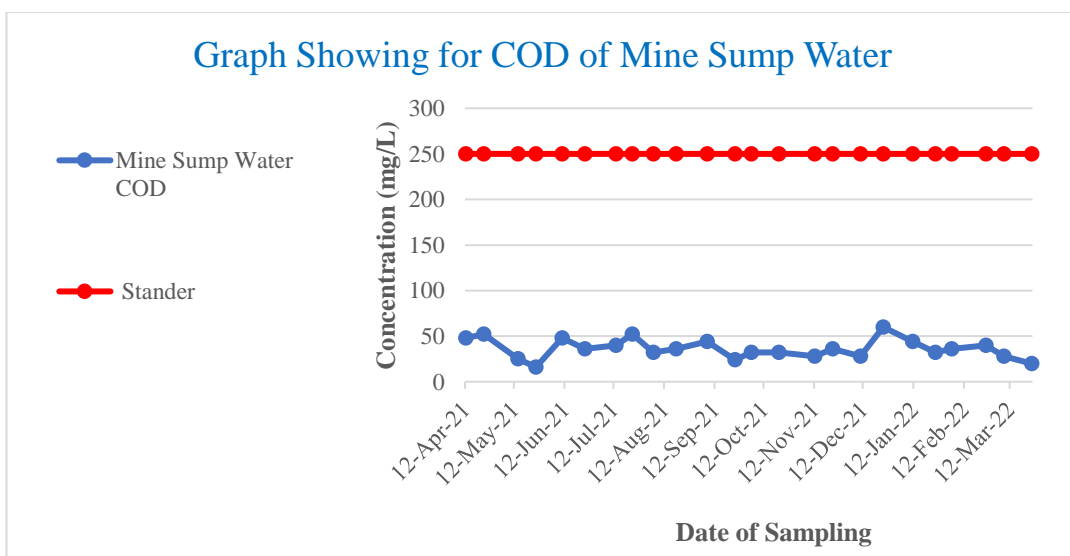
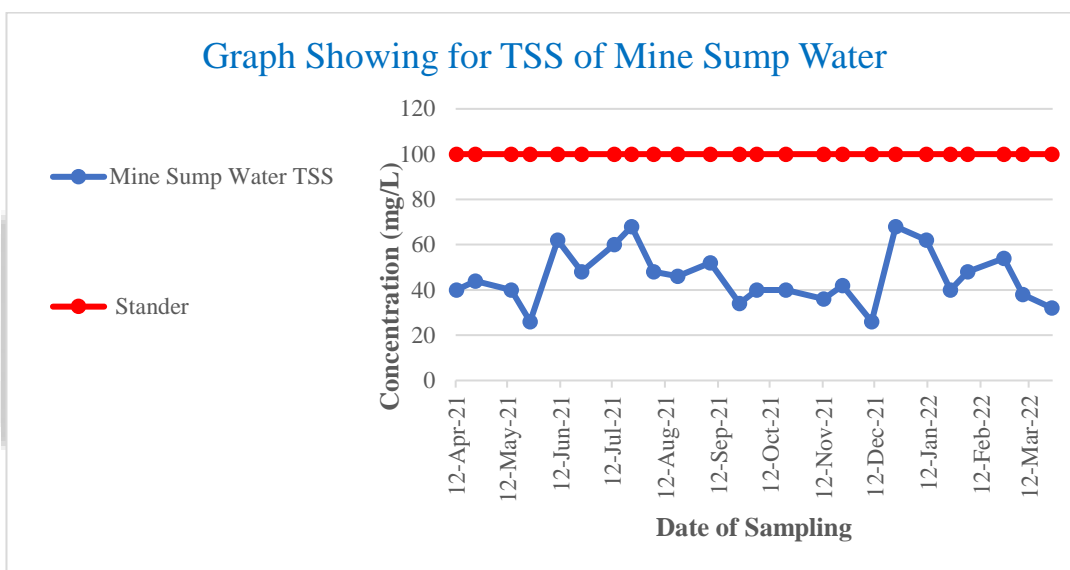
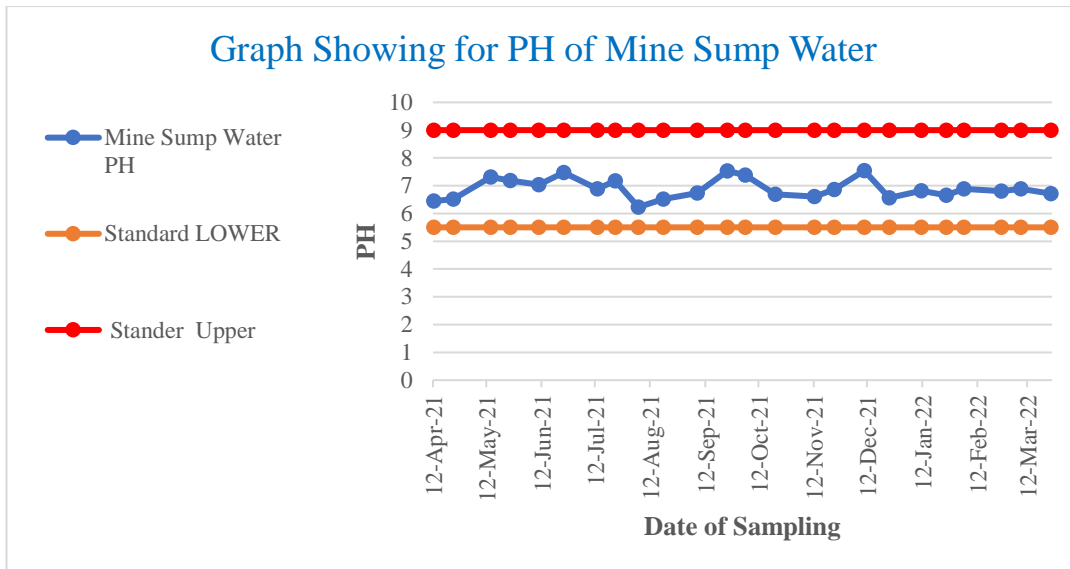
Monitoring station: Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.45	<4.0	40	48
23-Apr-21	6.52	<4.0	44	52
14-May-21	7.31	<4.0	40	25
25-May-21	7.18	<4.0	26	16
10-Jun-21	7.03	<4.0	62	48
24-Jun-21	7.47	<4.0	48	36
13-Jul-21	6.89	<4.0	60	40
23-Jul-21	7.17	<4.0	68	52
05-Aug-21	6.23	<4.0	48	32
19-Aug-21	6.52	<4.0	46	36
07-Sep-21	6.73	<4.0	52	44
24-Sep-21	7.53	<4.0	34	24
04-Oct-21	7.38	<4.0	40	32
21-Oct-21	6.69	<4.0	40	32
12-Nov-21	6.61	<4.0	36	28
23-Nov-21	6.86	<4.0	42	36
10-Dec-21	7.54	<4.0	26	28
24-Dec-21	6.56	<4.0	68	60
11-Jan-22	6.82	<4.0	62	44
25-Jan-22	6.65	<4.0	40	32
04-Feb-22	6.88	<4.0	48	36
25-Feb-22	6.8	<4.0	54	40
08-Mar-22	6.89	<4.0	38	28
25-Mar-22	6.71	<4.0	32	20

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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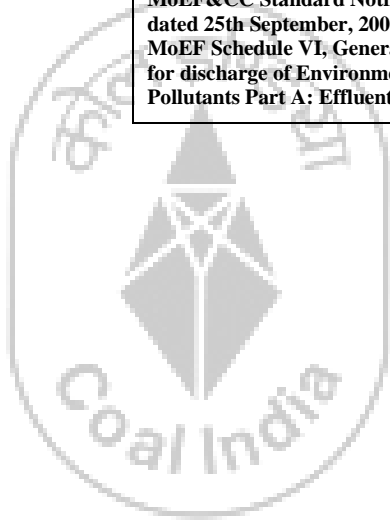
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Table:9.18

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

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	5.77	<4.0	46	32
12-Apr-21	5.97	<4.0	38	28
13-Jul-21	6.96	<4.0	78	64
13-Jul-21	7.06	<4.0	64	48
12-Oct-21	6.79	<4.0	52	44
12-Oct-21	7.1	<4.0	34	28
11-Jan-22	6.39	<4.0	74	52
11-Jan-22	6.68	<4.0	58	36

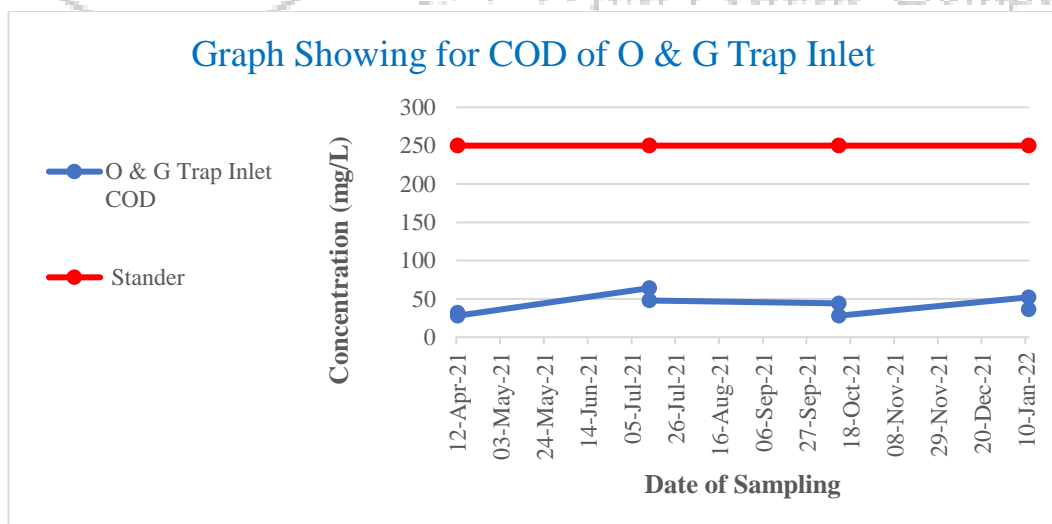
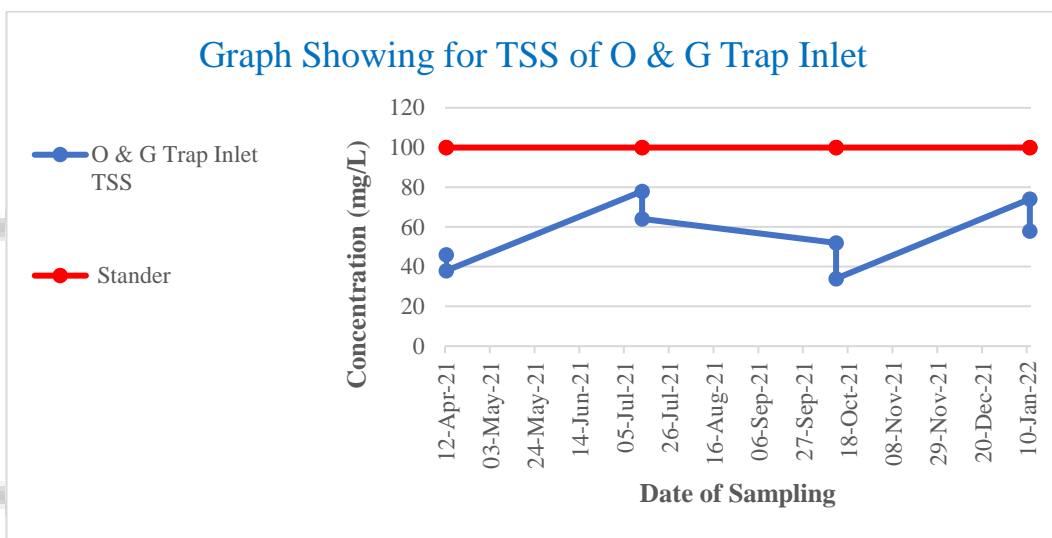
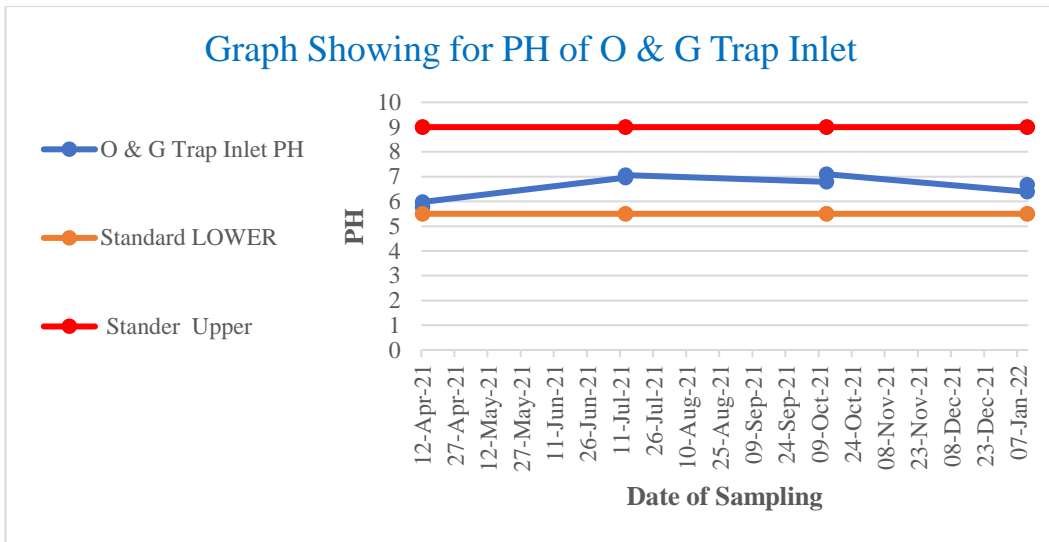
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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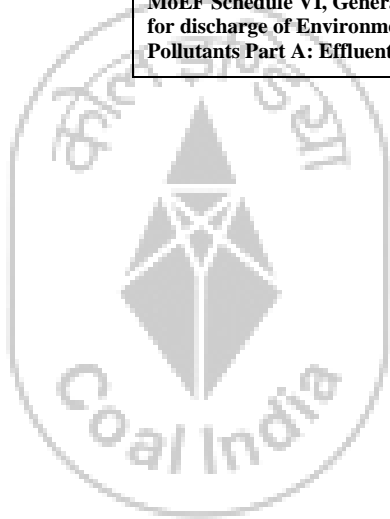
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Table: 9.19

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

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.1	<4.0	54	40
13-Jul-21	6.9	<4.0	68	92
05-Aug-21	6.3	<4.0	34	24
12-Oct-21	7.5	<4.0	64	52
11-Jan-22	6.4	<4.0	72	44

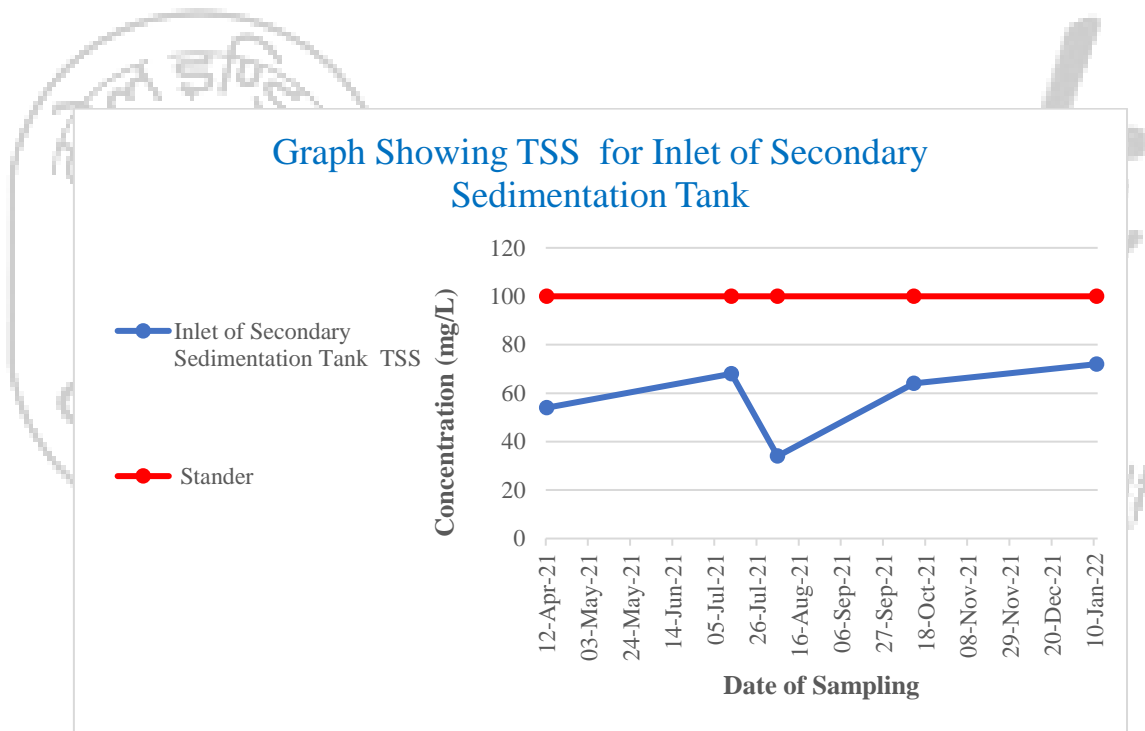
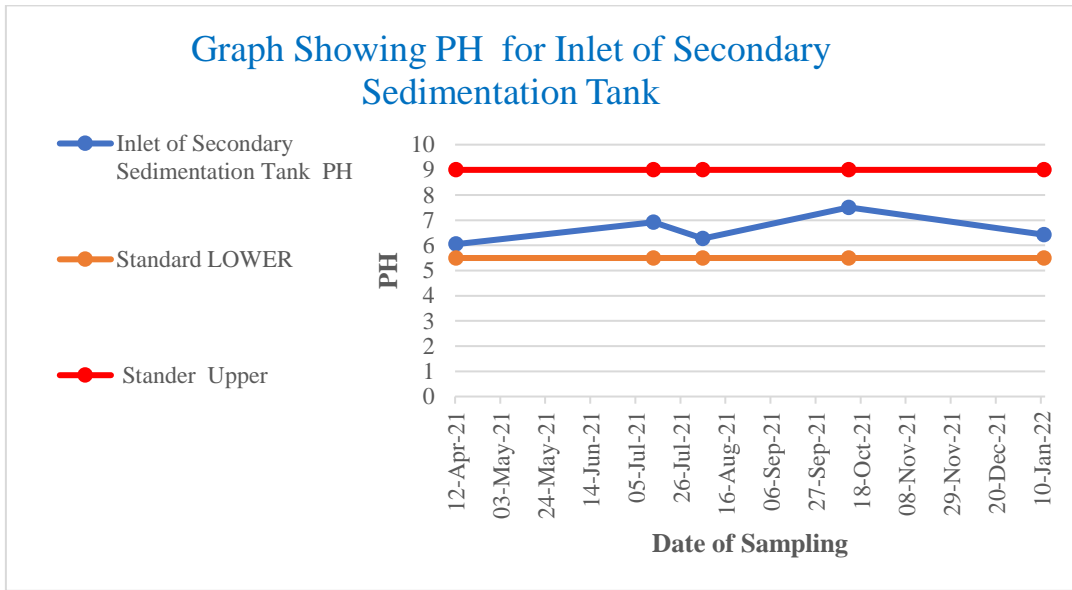
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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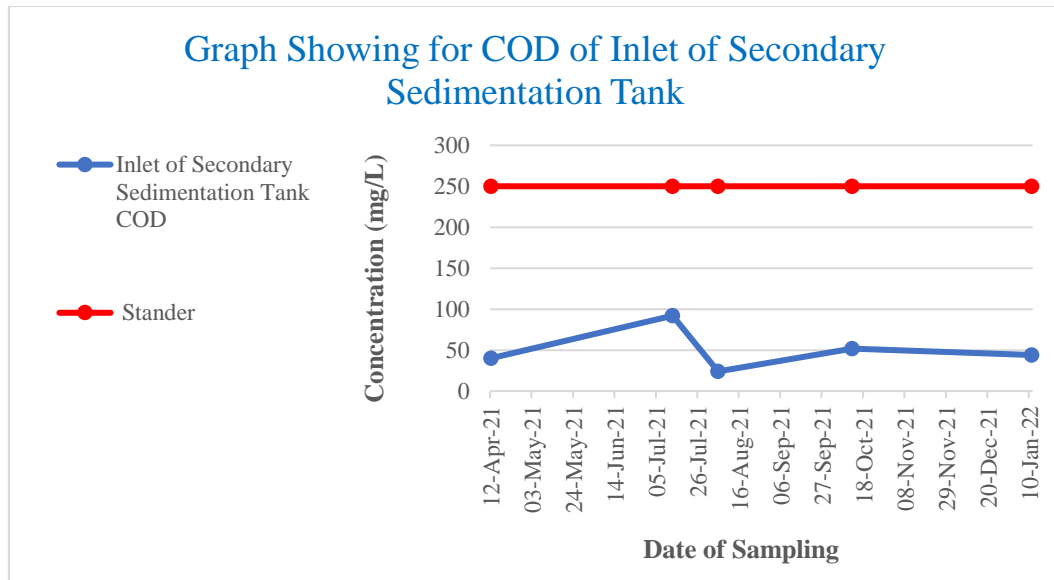
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Table:9.20

Area: Lakhanpur

Project: Lakhanpur OCP

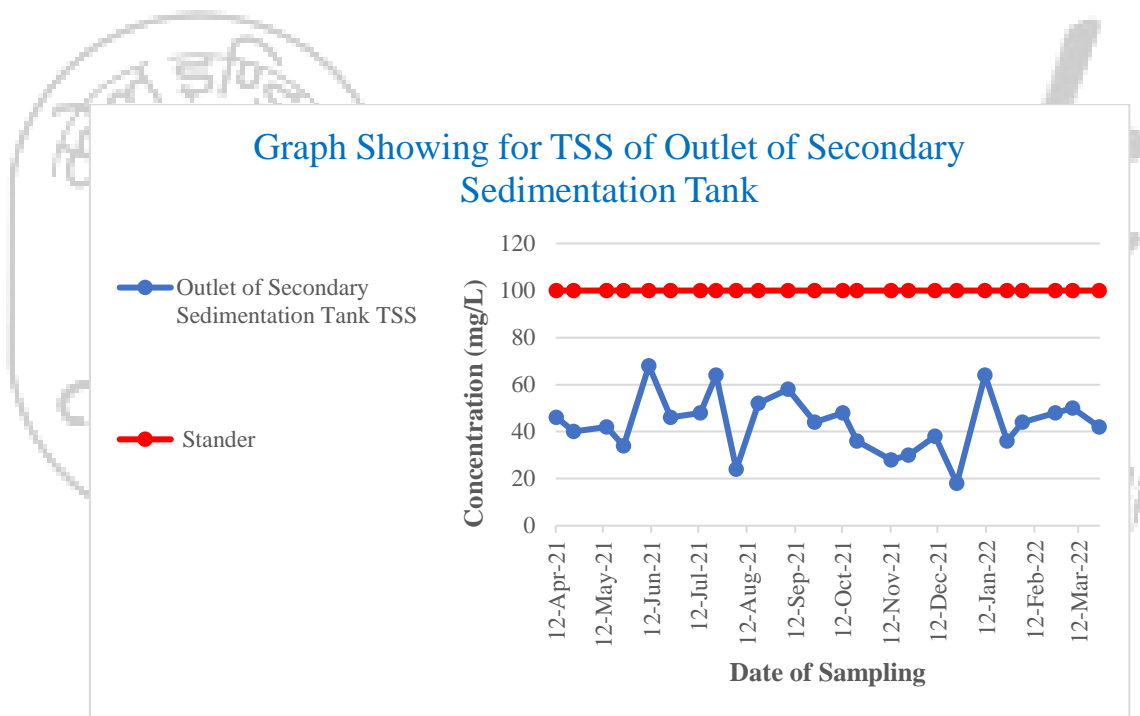
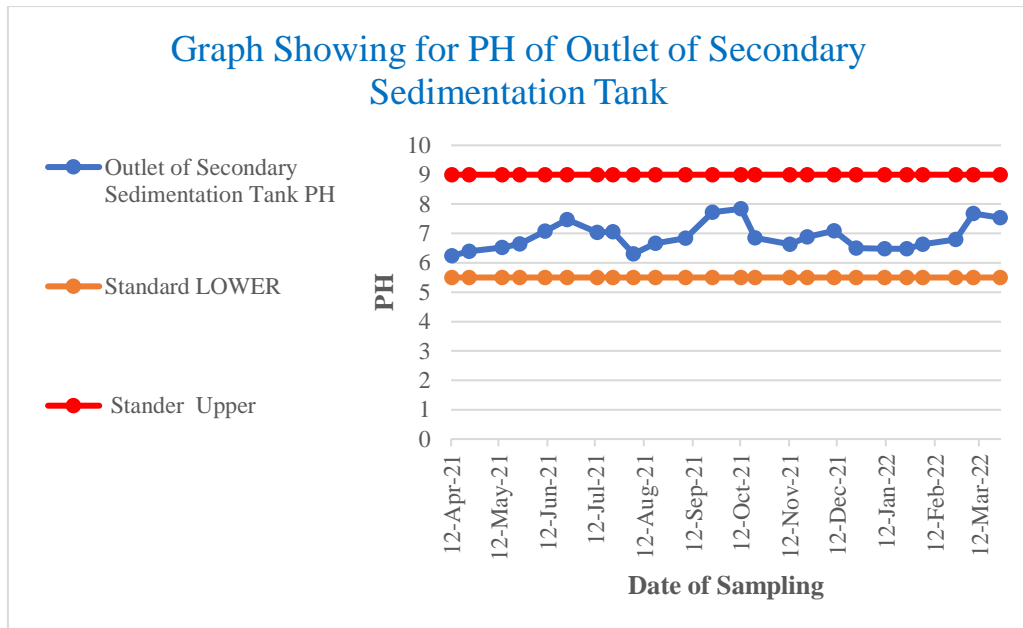
Monitoring station: Outlet of Secondary Sedimentation Tank

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.24	<4.0	46	28
23-Apr-21	6.39	<4.0	40	24
14-May-21	6.52	<4.0	42	32
25-May-21	6.64	<4.0	34	24
10-Jun-21	7.08	<4.0	68	56
24-Jun-21	7.47	<4.0	46	32
13-Jul-21	7.03	<4.0	48	52
23-Jul-21	7.06	<4.0	64	44
05-Aug-21	6.3	<4.0	24	16
19-Aug-21	6.66	<4.0	52	40
07-Sep-21	6.84	<4.0	58	48
24-Sep-21	7.72	<4.0	44	32
12-Oct-21	7.84	<4.0	48	36
21-Oct-21	6.85	<4.0	36	24
12-Nov-21	6.63	<4.0	28	24
23-Nov-21	6.88	<4.0	30	28
10-Dec-21	7.09	<4.0	38	64
24-Dec-21	6.5	<4.0	18	32
11-Jan-22	6.48	<4.0	64	40
25-Jan-22	6.48	<4.0	36	40
04-Feb-22	6.63	<4.0	44	40
25-Feb-22	6.79	<4.0	48	36
08-Mar-22	7.68	<4.0	50	40
25-Mar-22	7.54	<4.0	42	44

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:9.21

Area: Lakhanpur

Project: Belpahar OCP

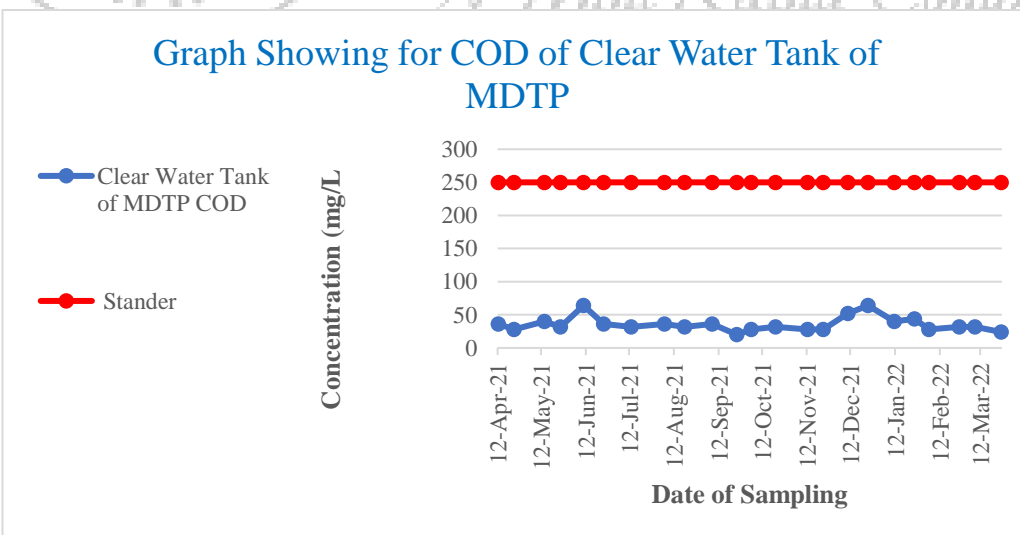
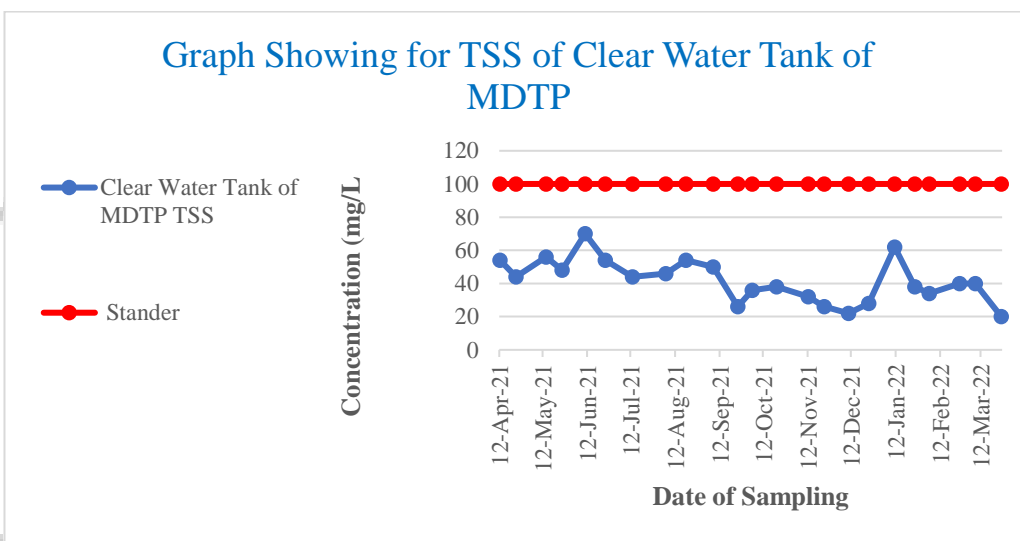
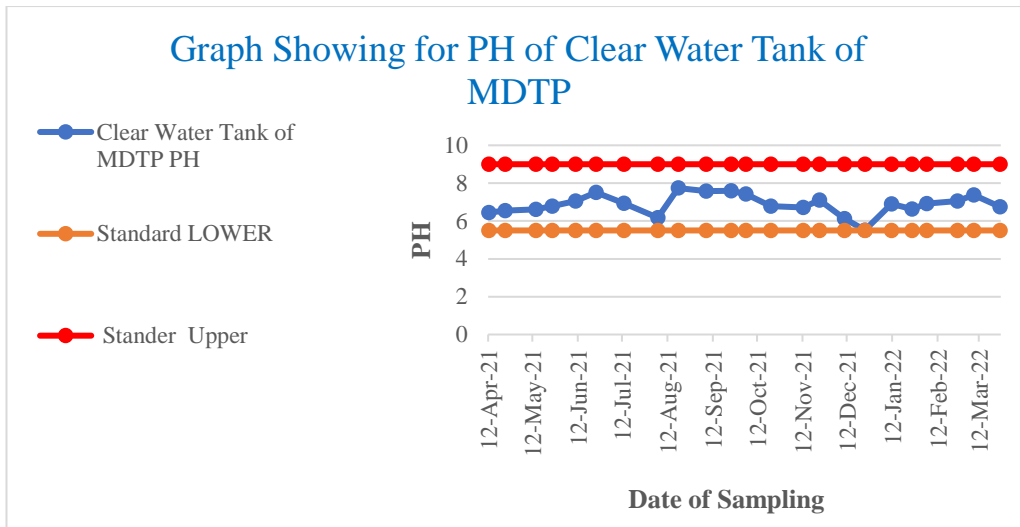
Monitoring station: Clear Water Tank of MDTP

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.4	<4.0	54	36
23-Apr-21	6.5	<4.0	44	28
14-May-21	6.6	<4.0	56	40
25-May-21	6.8	<4.0	48	32
10-Jun-21	7.1	<4.0	70	64
24-Jun-21	7.5	<4.0	54	36
13-Jul-21	6.9	<4.0	44	32
05-Aug-21	6.2	<4.0	46	36
19-Aug-21	7.7	<4.0	54	32
07-Sep-21	7.6	<4.0	50	36
24-Sep-21	7.6	<4.0	26	20
04-Oct-21	7.4	<4.0	36	28
21-Oct-21	6.8	<4.0	38	32
12-Nov-21	6.7	<4.0	32	28
23-Nov-21	7.1	<4.0	26	28
10-Dec-21	6.1	<4.0	22	52
24-Dec-21	5.5	<4.0	28	64
11-Jan-22	6.9	<4.0	62	40
25-Jan-22	6.6	<4.0	38	44
04-Feb-22	6.9	<4.0	34	28
25-Feb-22	7.1	<4.0	40	32
08-Mar-22	7.4	<4.0	40	32
26-Mar-22	6.8	<4.0	20	24

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

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Table:9.22

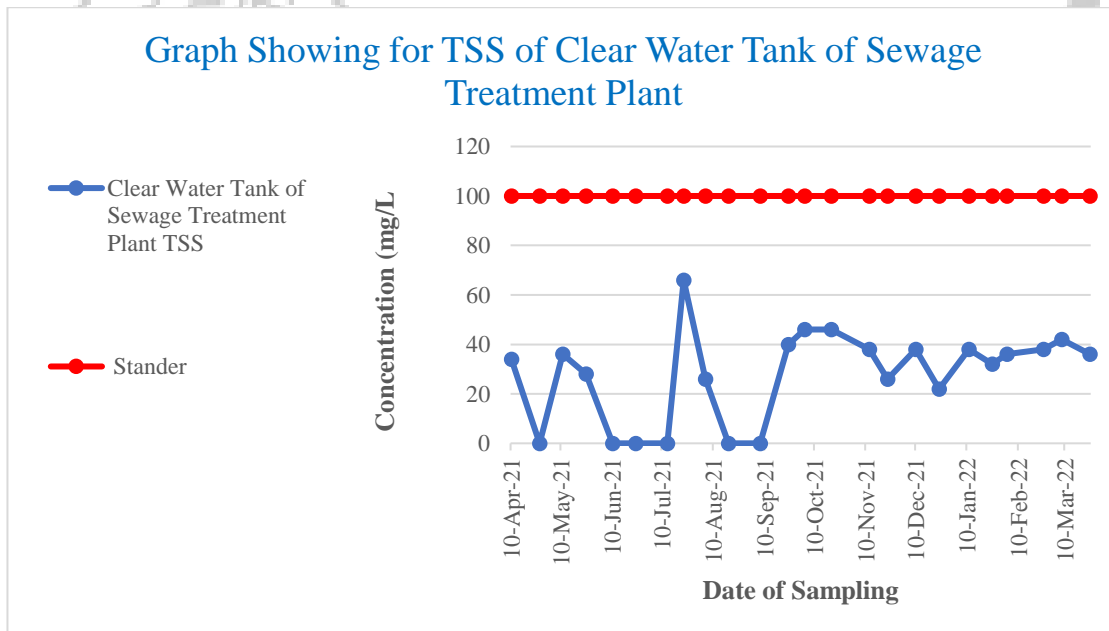
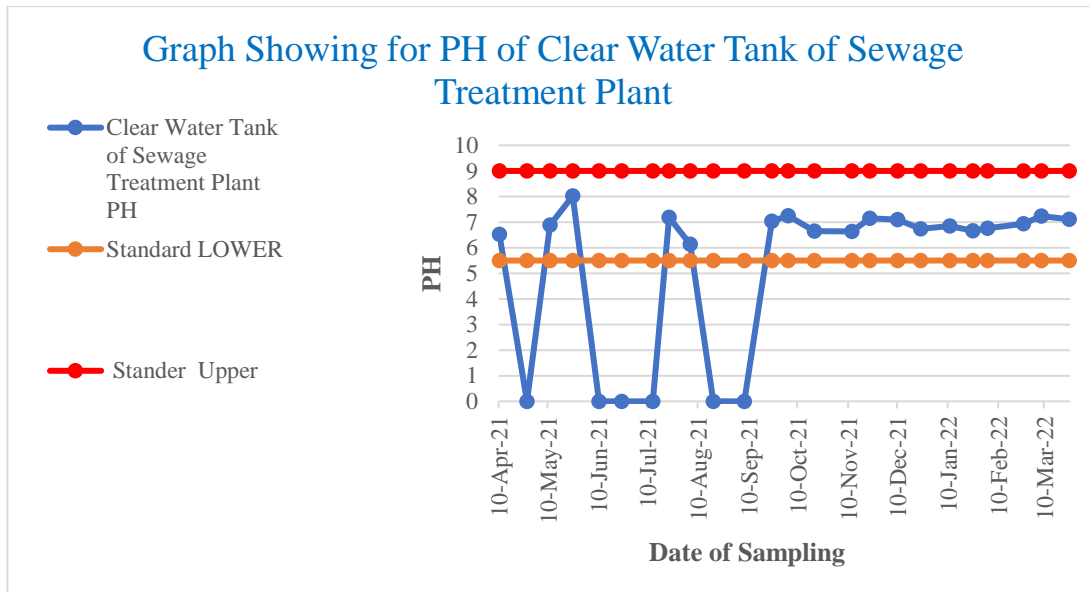
Area: Lakhanpur**Project:** Belpahar OCP**Monitoring station:** Clear Water Tank of Sewage Treatment Plant

Date of Sampling	pH	TSS	BOD
10-Apr-21	6.52	34	<2.0
27-Apr-21	N/A	N/A	N/A
11-May-21	6.89	36	<2.0
25-May-21	8.02	28	<2.0
10-Jun-21	N/A	N/A	N/A
24-Jun-21	N/A	N/A	N/A
13-Jul-21	N/A	N/A	N/A
23-Jul-21	7.18	66	<2.0
05-Aug-21	6.14	26	<2.0
19-Aug-21	N/A	N/A	N/A
07-Sep-21	N/A	N/A	N/A
24-Sep-21	7.03	40	<2.0
04-Oct-21	7.25	46	<2.0
20-Oct-21	6.65	46	<2.0
12-Nov-21	6.64	38	<2.0
23-Nov-21	7.15	26	<2.0
10-Dec-21	7.1	38	<2.0
24-Dec-21	6.74	22	<2.0
11-Jan-22	6.85	38	<2.0
25-Jan-22	6.66	32	<2.0
03-Feb-22	6.76	36	<2.0
25-Feb-22	6.93	38	<2.0
08-Mar-22	7.24	42	<2.0
25-Mar-22	7.11	36	<2

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:9.23

Area: Lakhanpur

Project: Belpahar OCP

Monitoring station: ECO Tank

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.72	<4.0	34	56
13-Jul-21	N/A	N/A	N/A	N/A
12-Oct-21	7.49	<4.0	40	36
11-Jan-22	6.45	<4.0	60	32

Table:9.24

Area: Lakhanpur

Project: Belpahar OCP

Monitoring station: Inlet of Sewage Treatment Plant

Date of Sampling	pH	TSS	BOD
11-May-21	7.2	36	<2.0
12-Nov-21	6.7	44	<2.0
03-Feb-22	6.6	38	<2.0

Table:9.25

Area: Lakhanpur

Project: Belpahar OCP

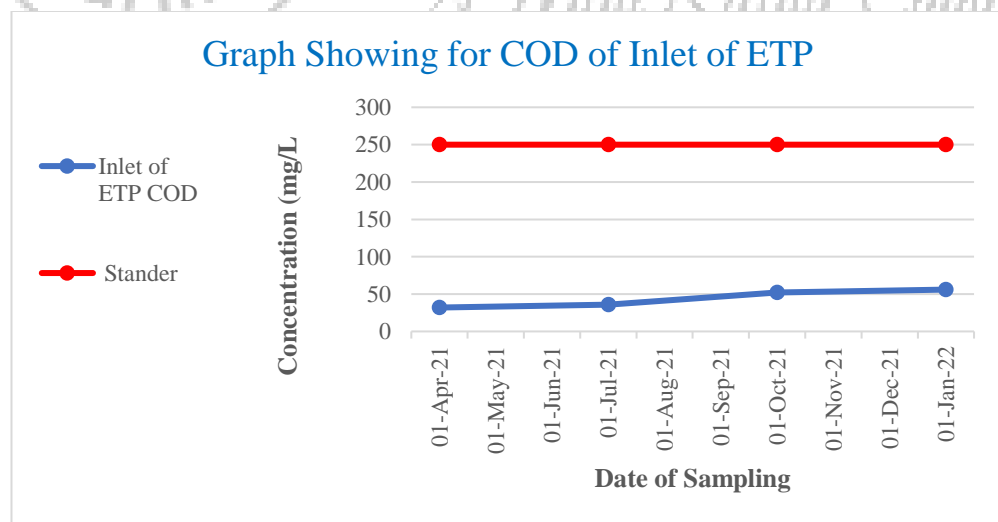
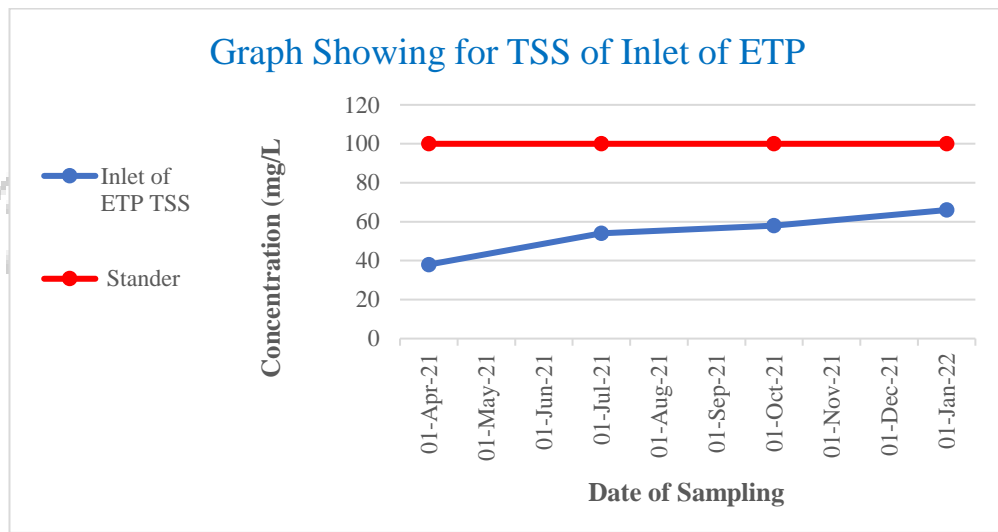
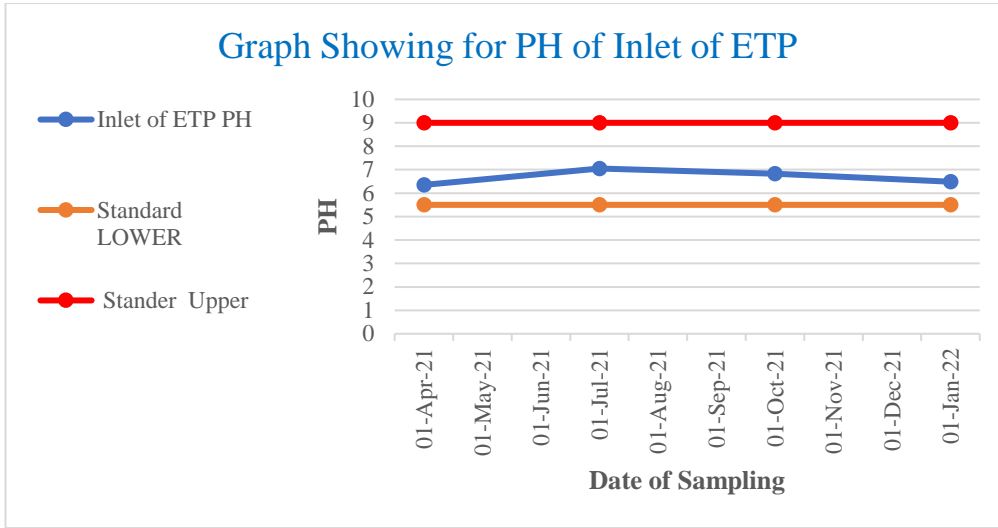
Monitoring station: Inlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.35	<4.0	38	32
13-Jul-21	7.05	<4.0	54	36
12-Oct-21	6.83	<4.0	58	52
11-Jan-22	6.49	<4.0	66	56

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

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.22	<4.0	34	28
13-Jul-21	6.92	<4.0	38	28
12-Oct-21	6.9	<4.0	36	28
11-Jan-22	6.51	<4.0	54	36

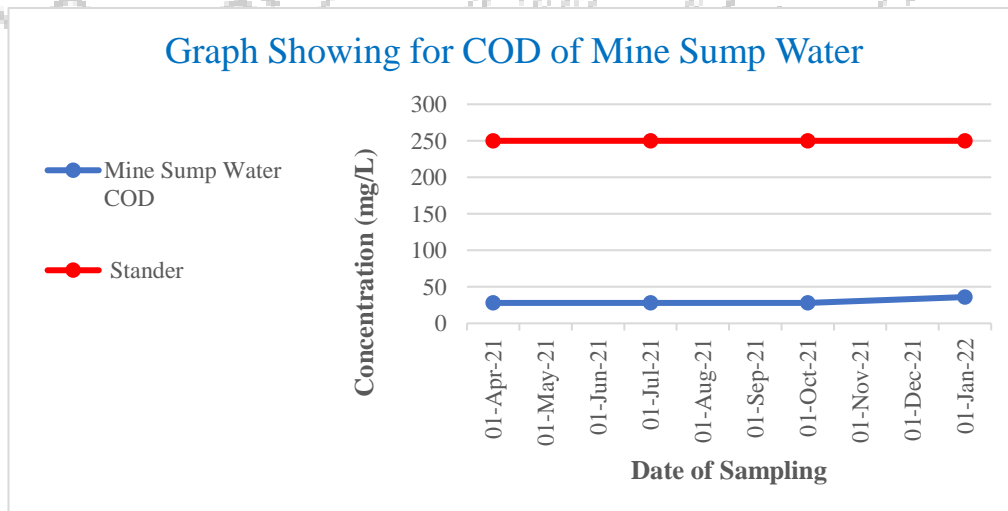
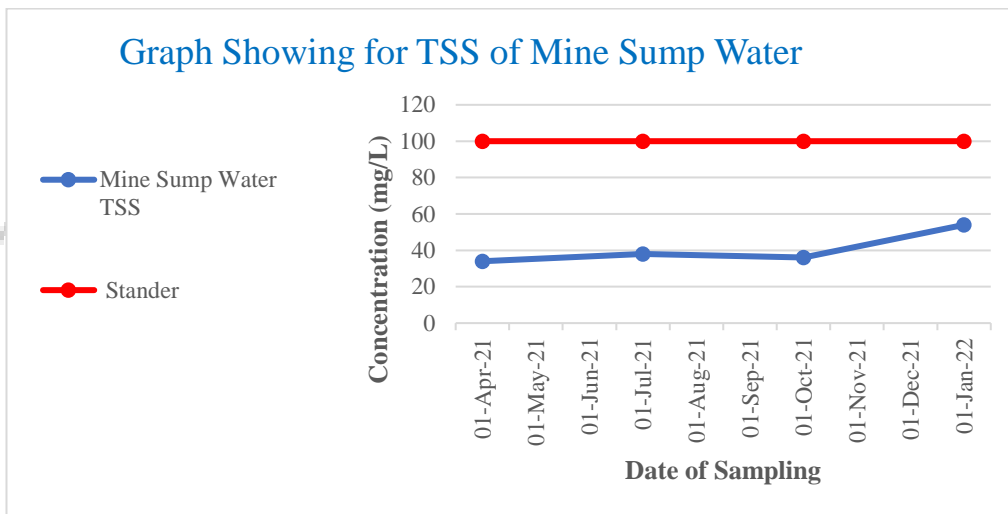
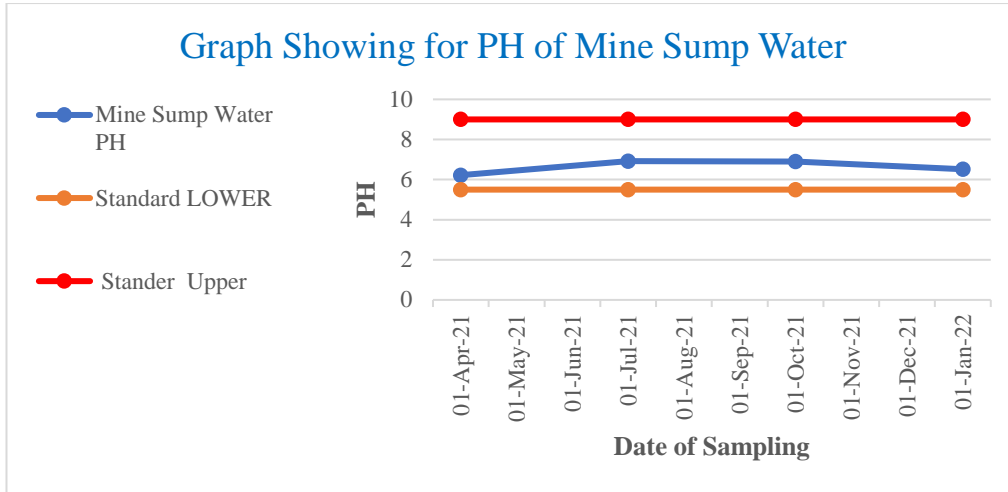
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.27**Area:** Lakhanpur**Project:** Belpahar OCP**Monitoring station:** Outlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.46	<4.0	56	32
13-Jul-21	7.35	<4.0	48	28
12-Oct-21	7.24	<4.0	34	36
11-Jan-22	6.51	<4.0	56	40

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

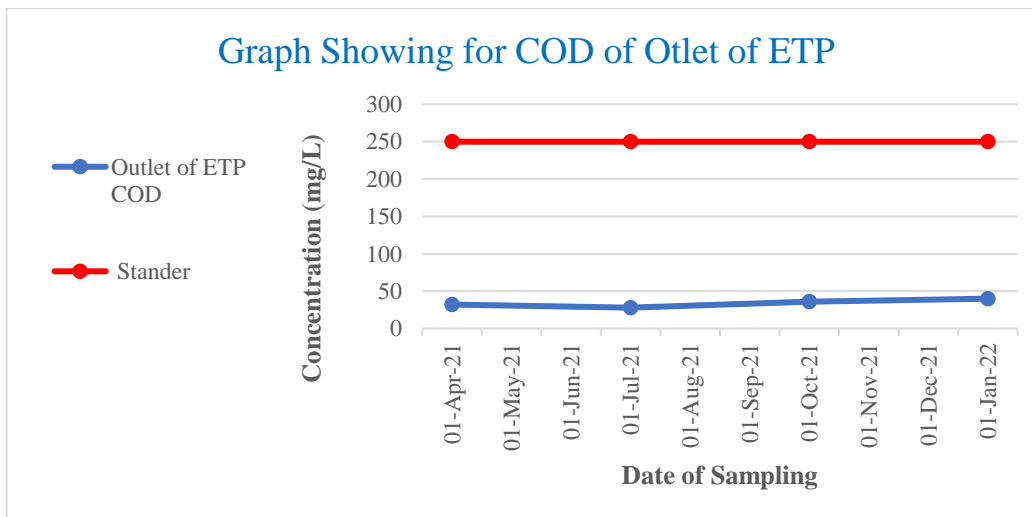
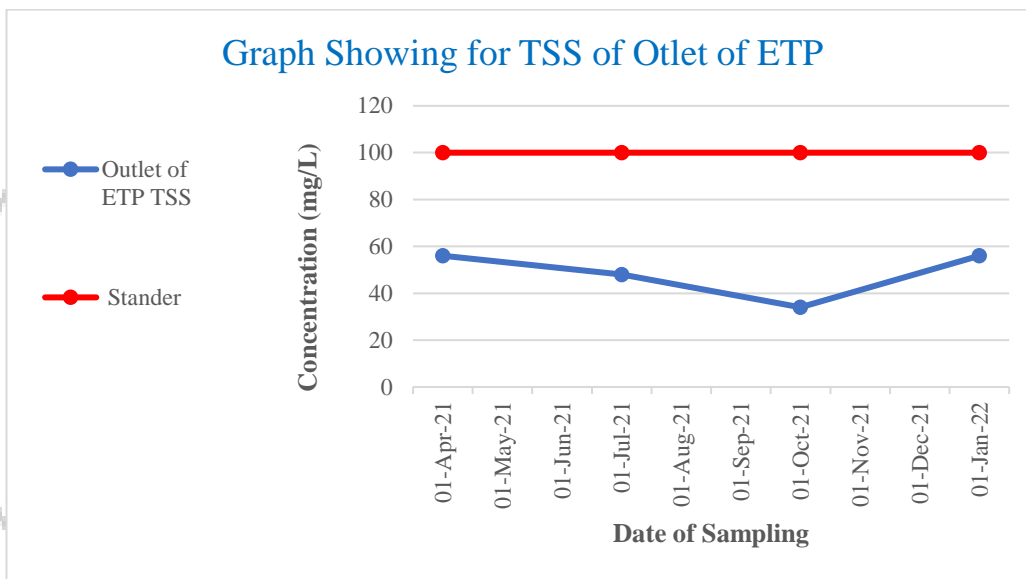
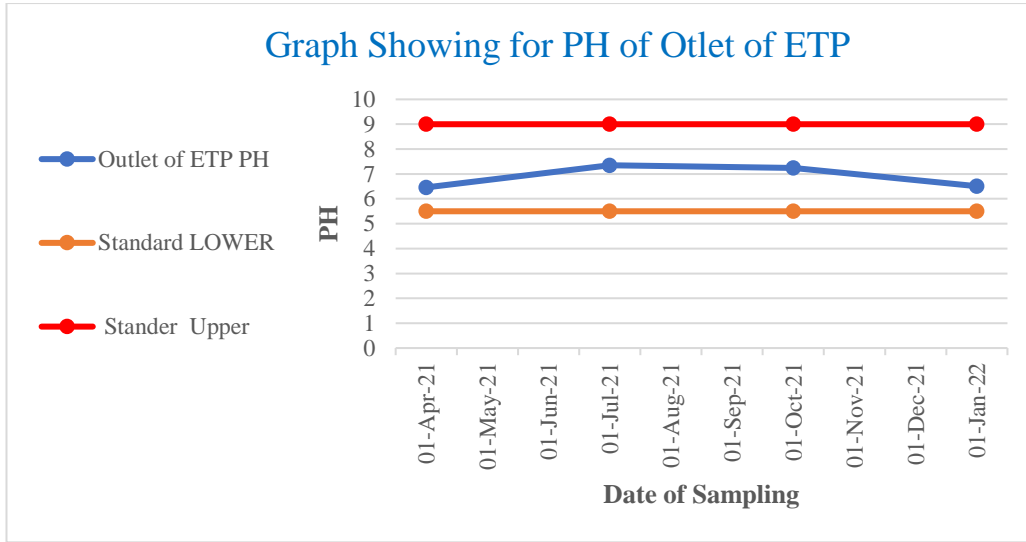


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Table:9.28**Area:** Lakhanpur**Project:** Lilari OCP**Monitoring station:** Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
12-Apr-21	6.71	<4.0	38	20
13-Jul-21	6.87	<4.0	54	36
12-Oct-21	7.47	<4.0	48	40
11-Jan-22	6.6	<4.0	68	48

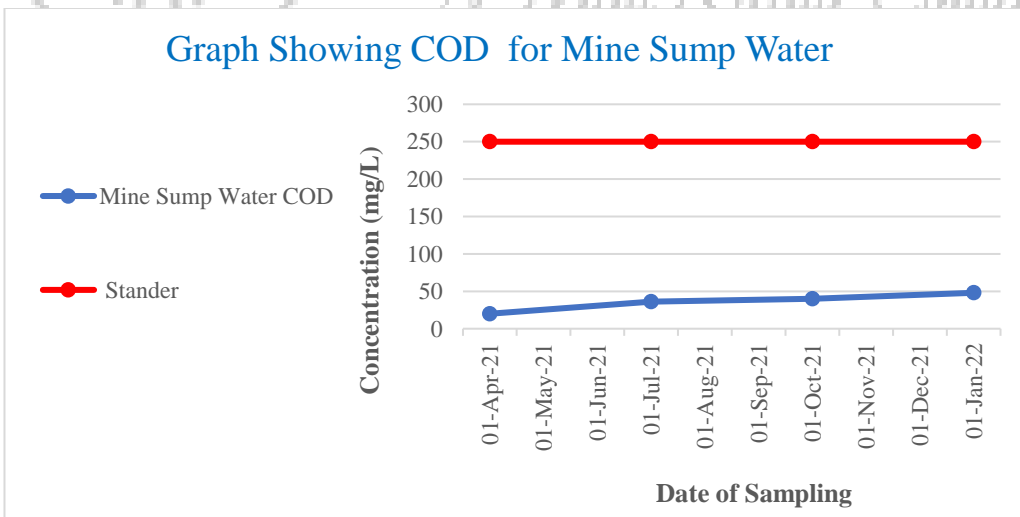
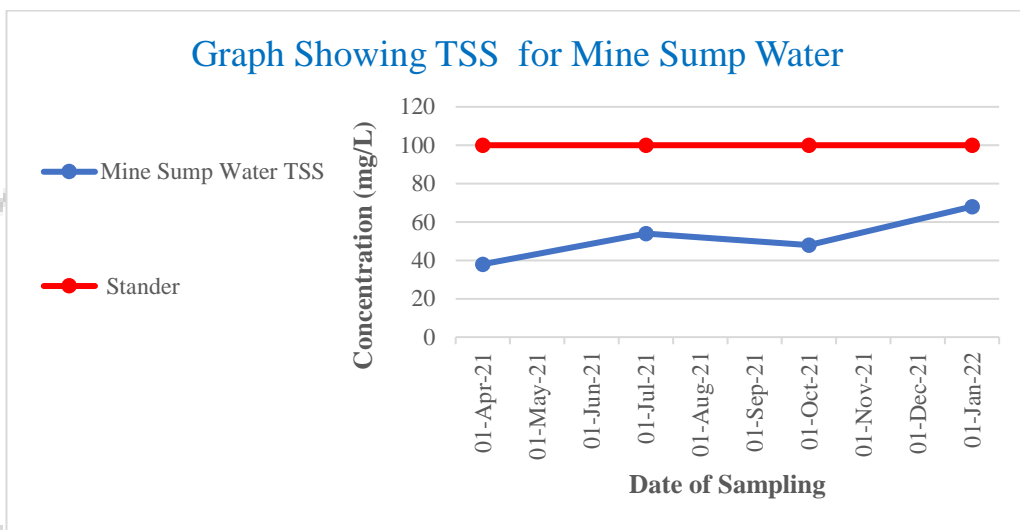
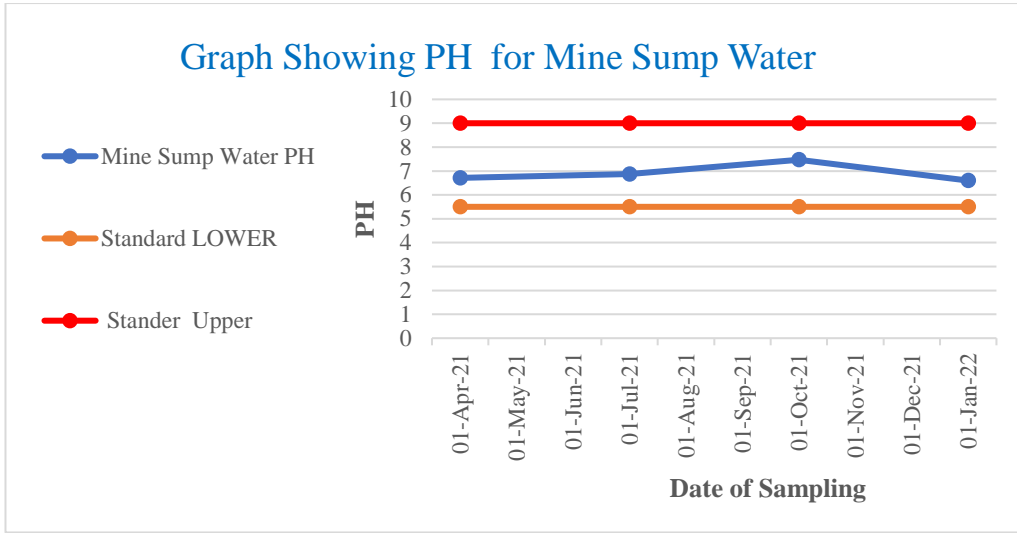
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.29

Area: Basundhara

Project: Kulda OCP

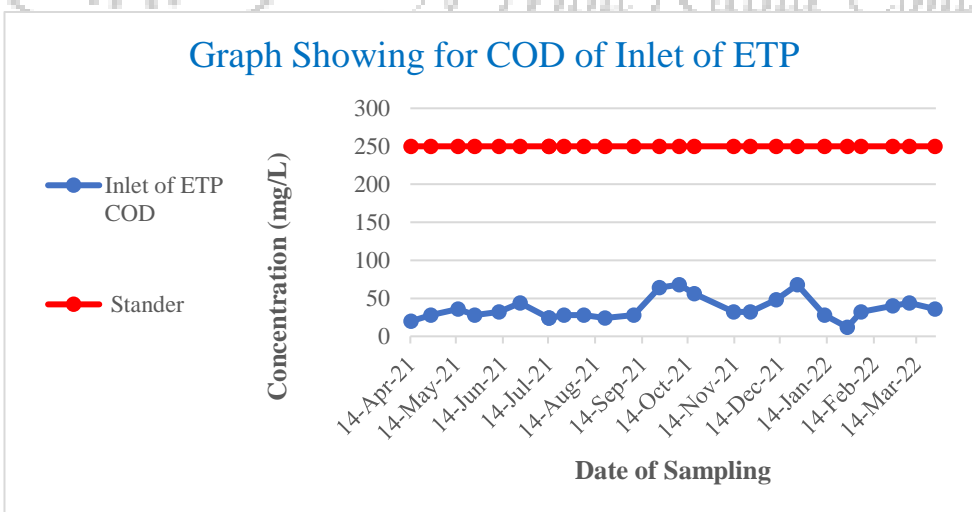
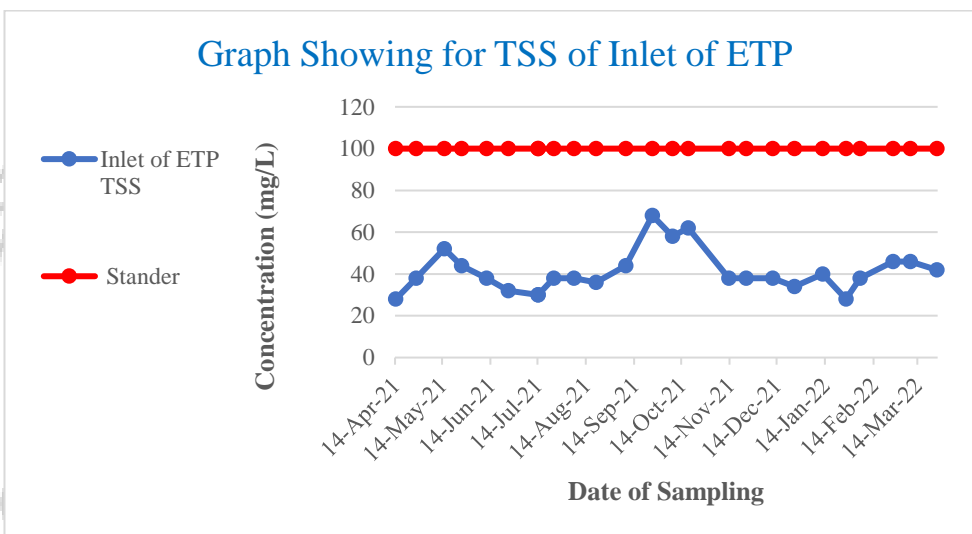
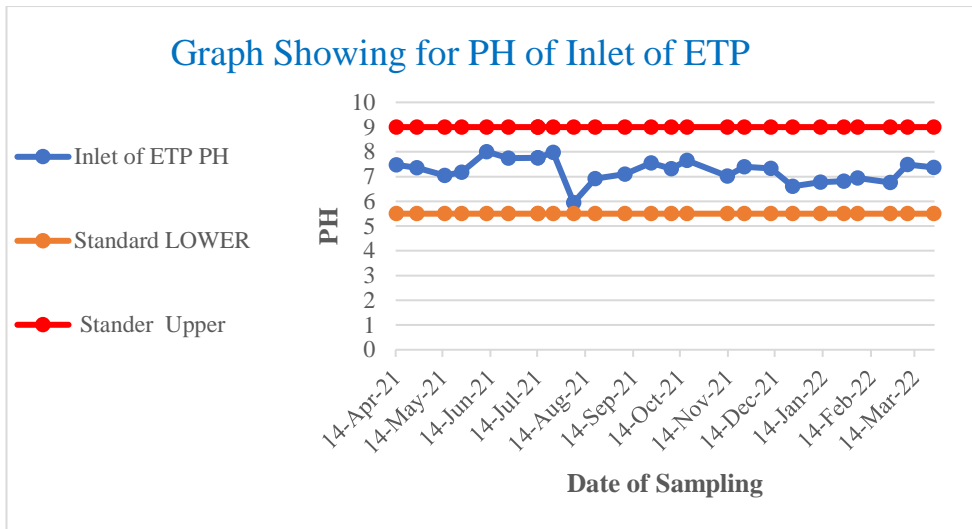
Monitoring station: Inlet of ETP

Date of Sampling	pH	Oil & Grease	TSS	COD	TDS	DO
14-Apr-21	7.47	<4.0	28	20	N/A	N/A
27-Apr-21	7.36	<4.0	38	28	N/A	N/A
15-May-21	7.04	<4.0	52	36	N/A	N/A
26-May-21	7.17	<4.0	44	28	N/A	N/A
11-Jun-21	8.01	<4.0	38	32	N/A	N/A
25-Jun-21	7.74	<4.0	32	44	N/A	N/A
14-Jul-21	7.76	<4.0	30	24	324	6.1
14-Jul-21	7.76	<4.0	30	24	N/A	N/A
24-Jul-21	7.98	<4.0	38	28	246	6.4
06-Aug-21	5.95	<4.0	38	28	282	6.5
20-Aug-21	6.92	<4.0	36	24	260	6.4
08-Sep-21	7.1	<4.0	44	28	288	6.4
25-Sep-21	7.55	<4.0	68	64	298	6.2
08-Oct-21	7.32	<4.0	58	68	279	6.4
18-Oct-21	7.65	<4.0	62	56	282	6.2
13-Nov-21	7.02	<4.0	38	32	374	6.4
24-Nov-21	7.4	<4.0	38	32	314	6.4
11-Dec-21	7.33	<4.0	38	48	370	6.4
25-Dec-21	6.6	<4.0	34	68	348	6.4
12-Jan-22	6.78	<4.0	40	28	398	6.4
27-Jan-22	6.81	<4.0	28	12	126	6.6
05-Feb-22	6.94	<4.0	38	32	340	6.4
26-Feb-22	6.76	<4.0	46	40	348	6.6
09-Mar-22	7.49	<4.0	46	44	416	6.3
26-Mar-22	7.37	<4.0	42	36	408	6.4

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:9.30

Area: Basundhara

Project: Kulda OCP

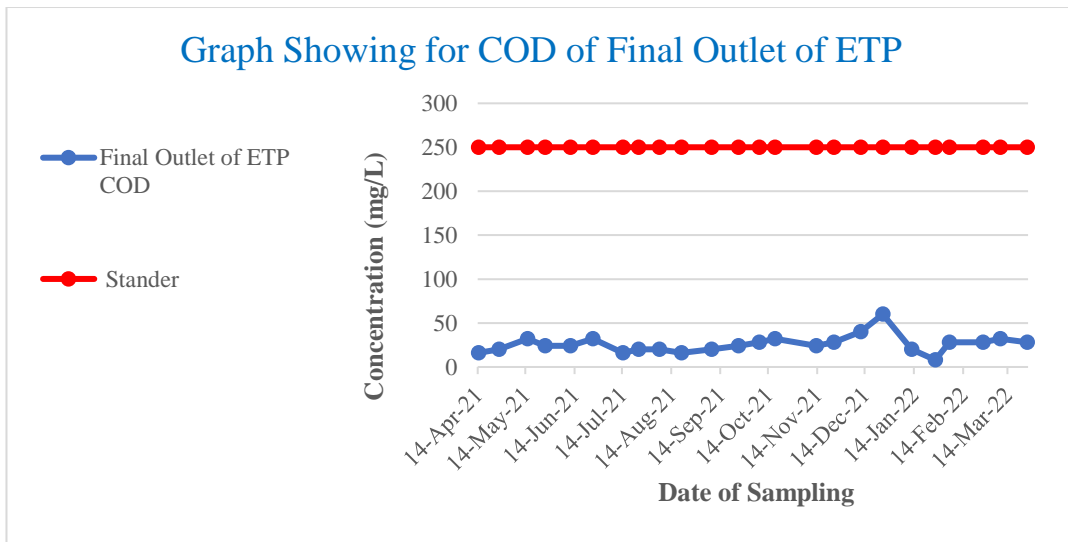
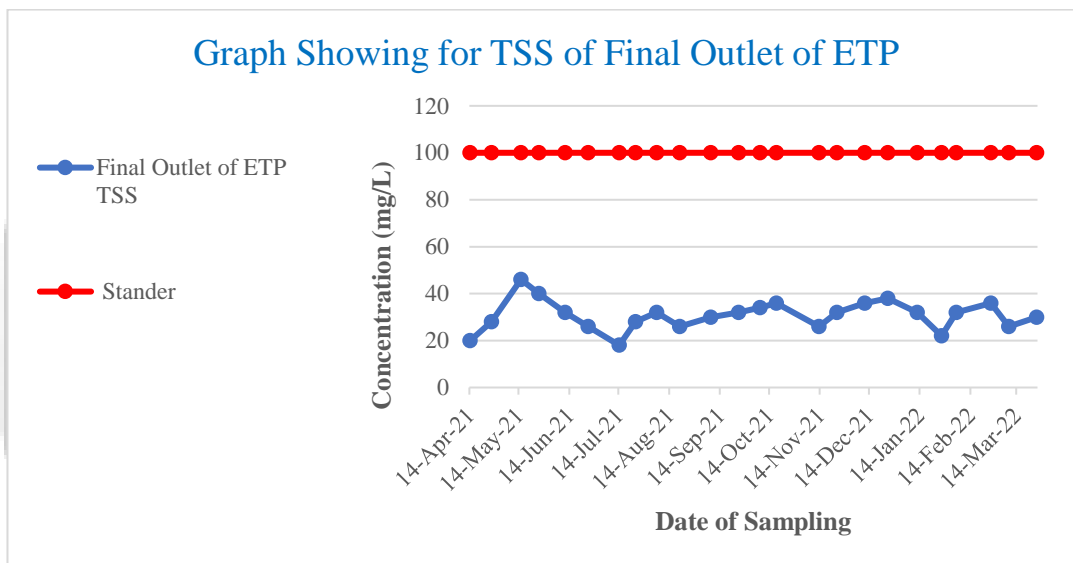
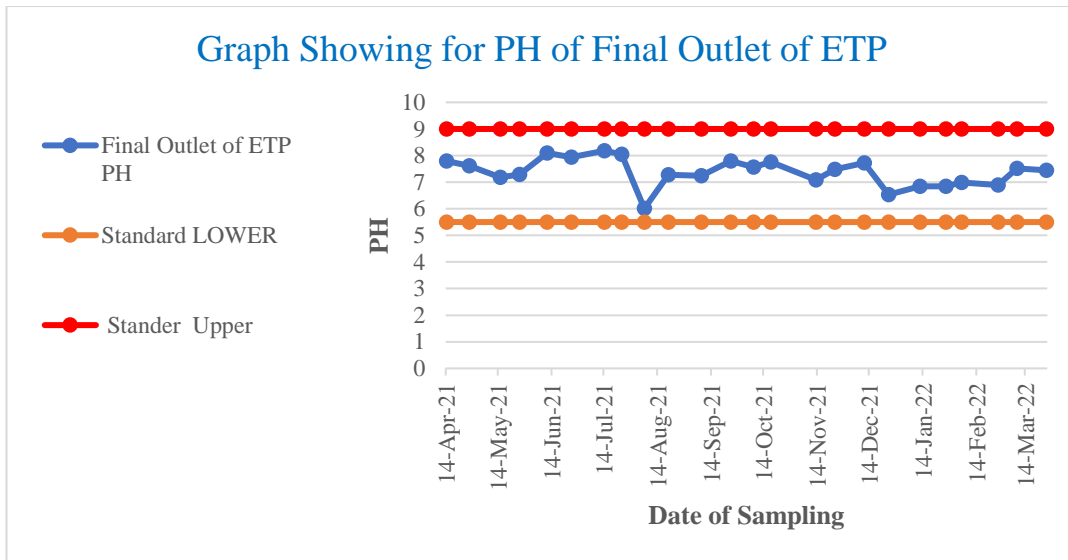
Monitoring station: Final Outlet of ETP

Date of Sampling	pH	TSS	BOD	TDS	DO
14-Apr-21	7.79	<4.0	20	N/A	N/A
27-Apr-21	7.61	<4.0	28	N/A	N/A
15-May-21	7.18	<4.0	46	N/A	N/A
26-May-21	7.29	<4.0	40	N/A	N/A
11-Jun-21	8.09	<4.0	32	N/A	N/A
25-Jun-21	7.94	<4.0	26	N/A	N/A
14-Jul-21	8.18	<4.0	18	320	6.6
24-Jul-21	8.05	<4.0	28	240	6.9
06-Aug-21	6.01	<4.0	32	288	6.2
20-Aug-21	7.28	<4.0	26	266	6.6
08-Sep-21	7.24	<4.0	30	294	6.2
25-Sep-21	7.8	<4.0	32	302	6.4
08-Oct-21	7.57	<4.0	34	284	6.6
18-Oct-21	7.76	<4.0	36	290	6.6
13-Nov-21	7.08	<4.0	26	378	6.6
24-Nov-21	7.48	<4.0	32	318	6.6
11-Dec-21	7.72	<4.0	36	314	6.4
25-Dec-21	6.53	<4.0	38	314	6.1
12-Jan-22	6.85	<4.0	32	396	6.6
27-Jan-22	6.85	<4.0	22	122	6.8
05-Feb-22	6.99	<4.0	32	344	6.6
26-Feb-22	6.89	<4.0	36	352	6.4
09-Mar-22	7.52	<4.0	26	412	6.5
26-Mar-22	7.44	<4.0	30	404	6.6

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:9.31

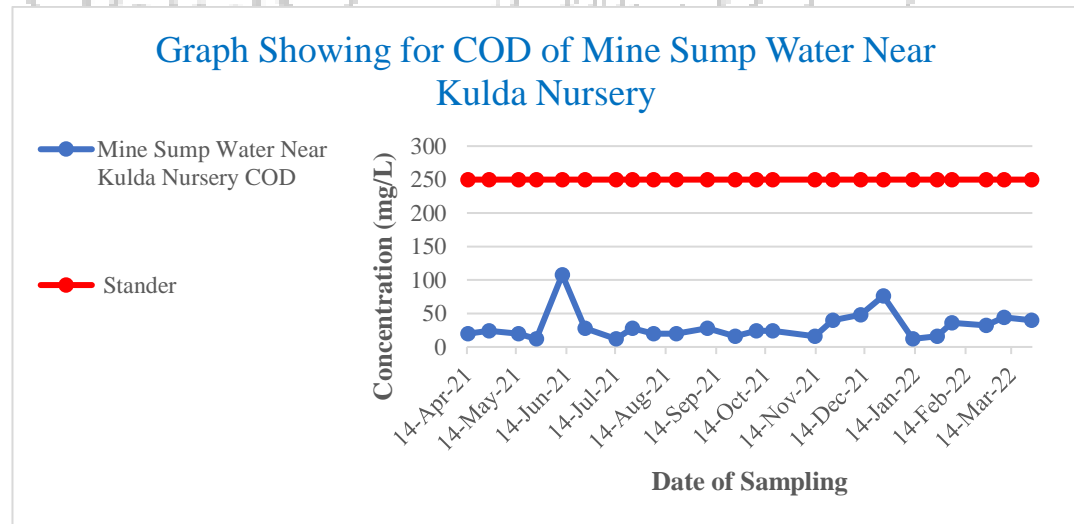
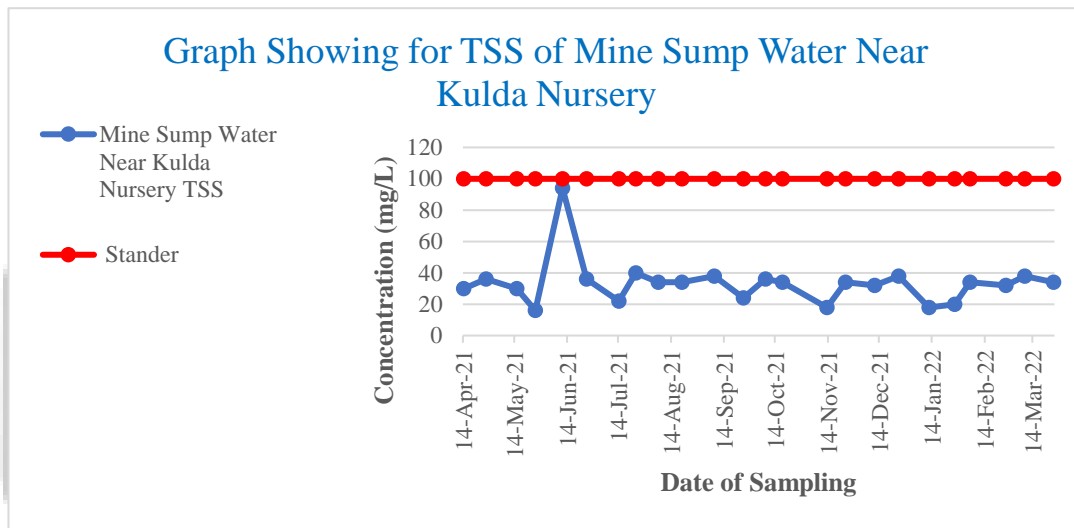
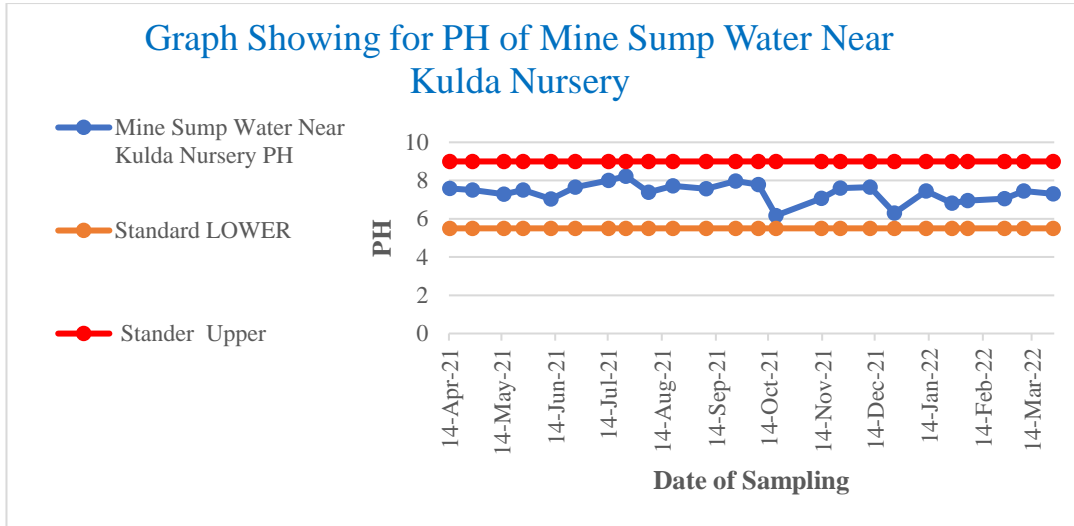
Area: Basundhara**Project:** Kulda OCP**Monitoring station:** Mine Sump Water Near Kulda Nursery

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	7.59	<4.0	30	20
27-Apr-21	7.51	<4.0	36	24
15-May-21	7.29	<4.0	30	20
26-May-21	7.51	<4.0	16	12
11-Jun-21	7.04	<4.0	94	108
25-Jun-21	7.66	<4.0	36	28
14-Jul-21	8.01	<4.0	22	12
24-Jul-21	8.23	<4.0	40	28
06-Aug-21	7.38	<4.0	34	20
20-Aug-21	7.73	<4.0	34	20
08-Sep-21	7.57	<4.0	38	28
25-Sep-21	7.97	<4.0	24	16
08-Oct-21	7.79	<4.0	36	24
18-Oct-21	6.17	<4.0	34	24
13-Nov-21	7.07	<4.0	18	16
24-Nov-21	7.6	<4.0	34	40
11-Dec-21	7.65	<4.0	32	48
25-Dec-21	6.3	<4.0	38	76
12-Jan-22	7.45	<4.0	18	12
27-Jan-22	6.82	<4.0	20	16
05-Feb-22	6.95	<4.0	34	36
26-Feb-22	7.06	<4.0	32	32
09-Mar-22	7.46	<4.0	38	44
26-Mar-22	7.3	<4.0	34	40

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:9.32

Area: Basundhara

Project: Garjanbahal OCP

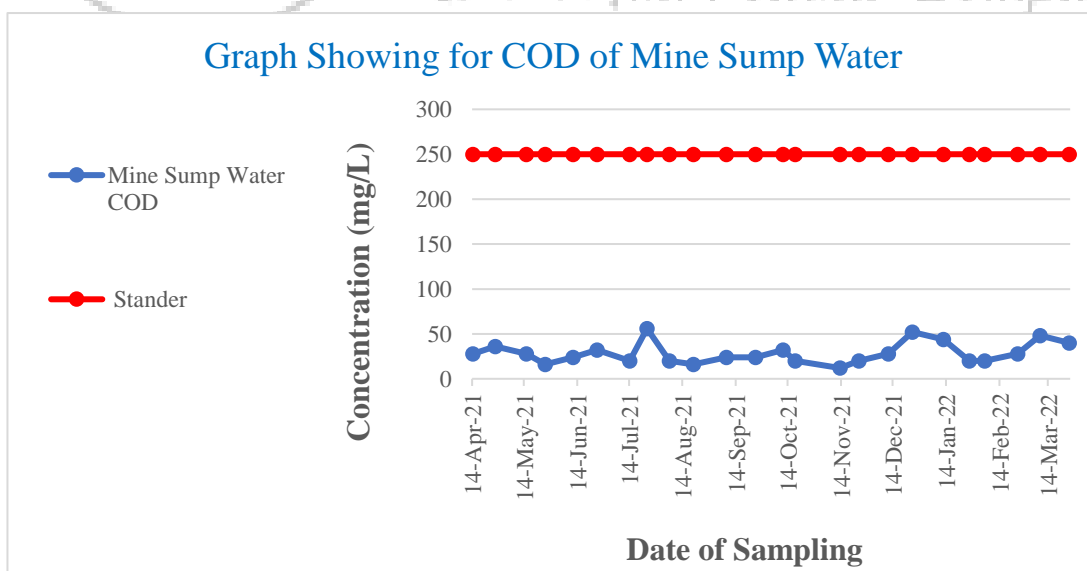
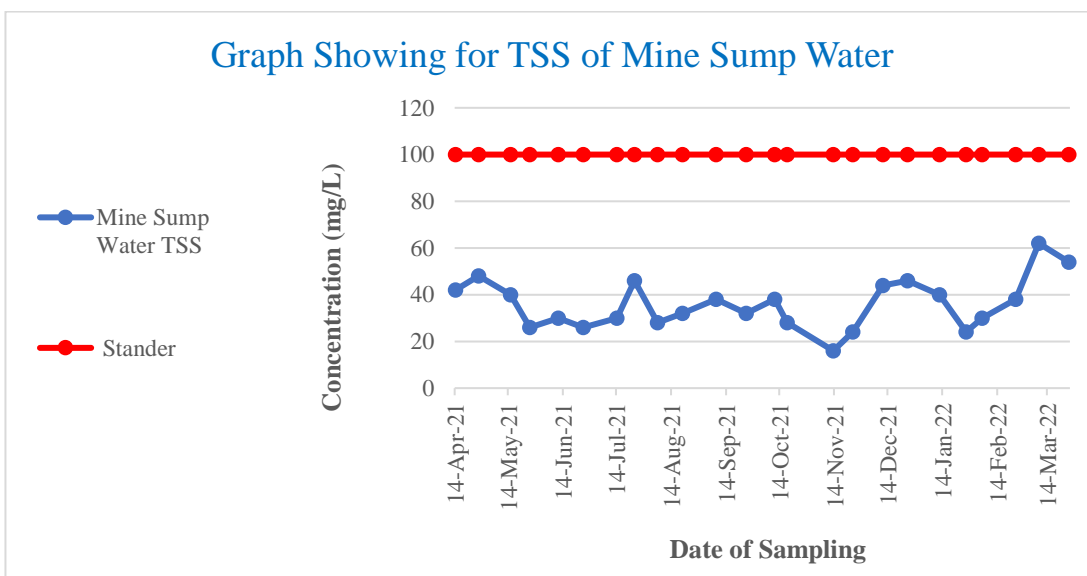
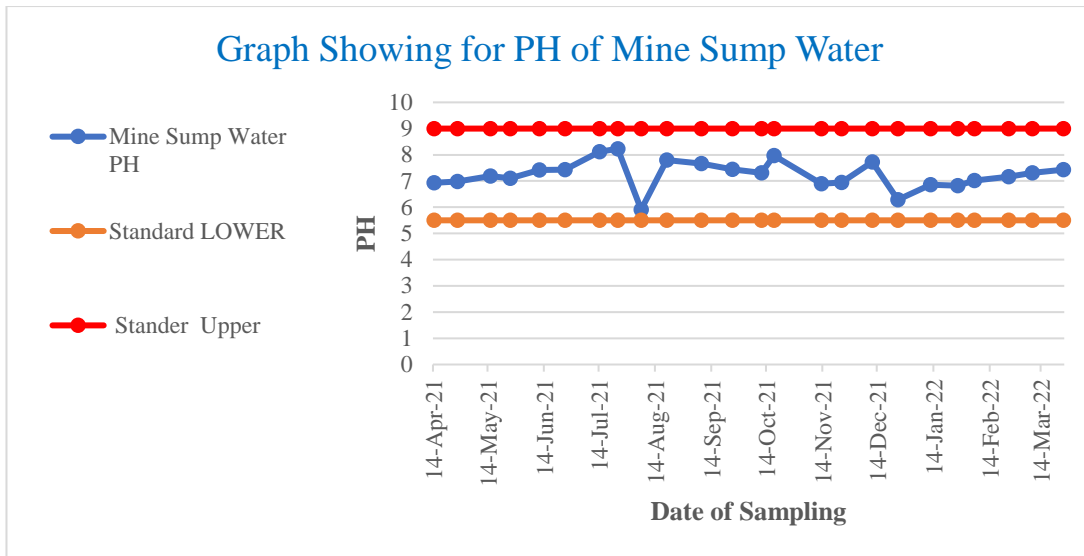
Monitoring station: Mine Sump Water

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	6.93	<4.0	42	28
27-Apr-21	6.98	<4.0	48	36
15-May-21	7.19	<4.0	40	28
26-May-21	7.1	<4.0	26	16
11-Jun-21	7.42	<4.0	30	24
25-Jun-21	7.43	<4.0	26	32
14-Jul-21	8.12	<4.0	30	20
24-Jul-21	8.23	<4.0	46	56
06-Aug-21	5.91	<4.0	28	20
20-Aug-21	7.8	<4.0	32	16
08-Sep-21	7.66	<4.0	38	24
25-Sep-21	7.44	<4.0	32	24
11-Oct-21	7.31	<4.0	38	32
18-Oct-21	7.97	<4.0	28	20
13-Nov-21	6.89	<4.0	16	12
24-Nov-21	6.94	<4.0	24	20
11-Dec-21	7.72	<4.0	44	28
25-Dec-21	6.28	<4.0	46	52
12-Jan-22	6.86	<4.0	40	44
27-Jan-22	6.82	<4.0	24	20
05-Feb-22	7.02	<4.0	30	20
24-Feb-22	7.17	<4.0	38	28
09-Mar-22	7.31	<4.0	62	48
26-Mar-22	7.43	<4.0	54	40

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: Basundhara

Project: Garjanbahal OCP

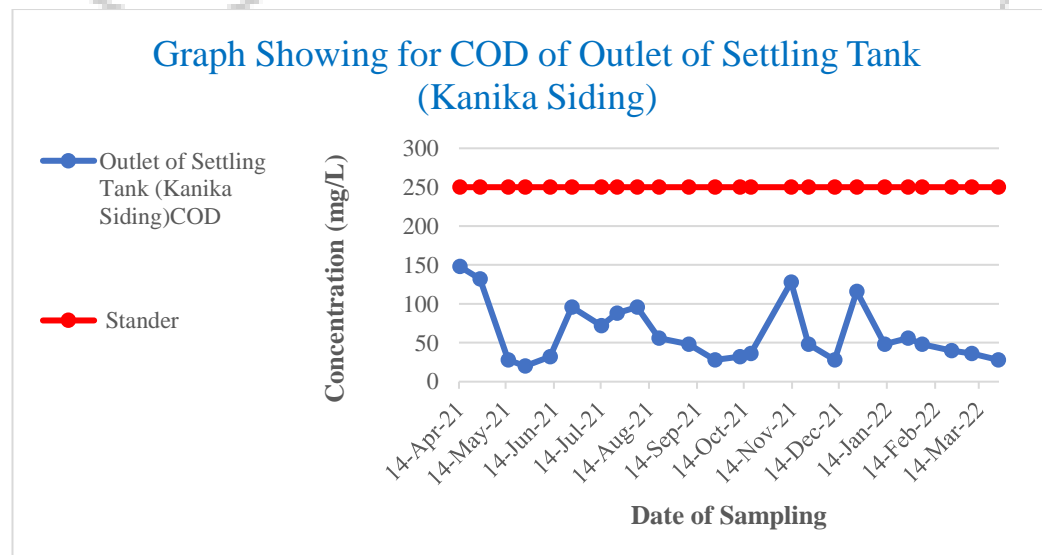
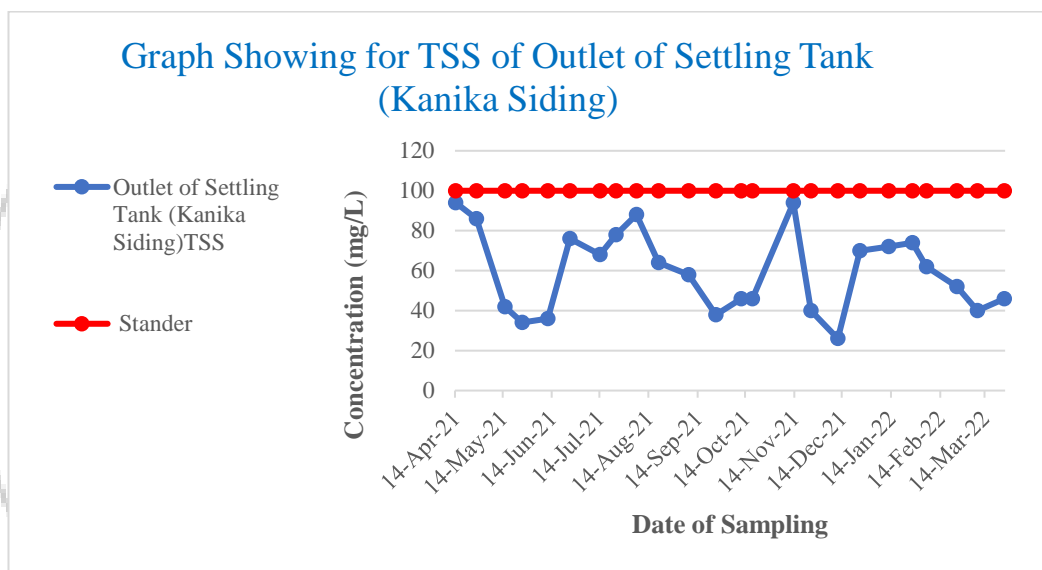
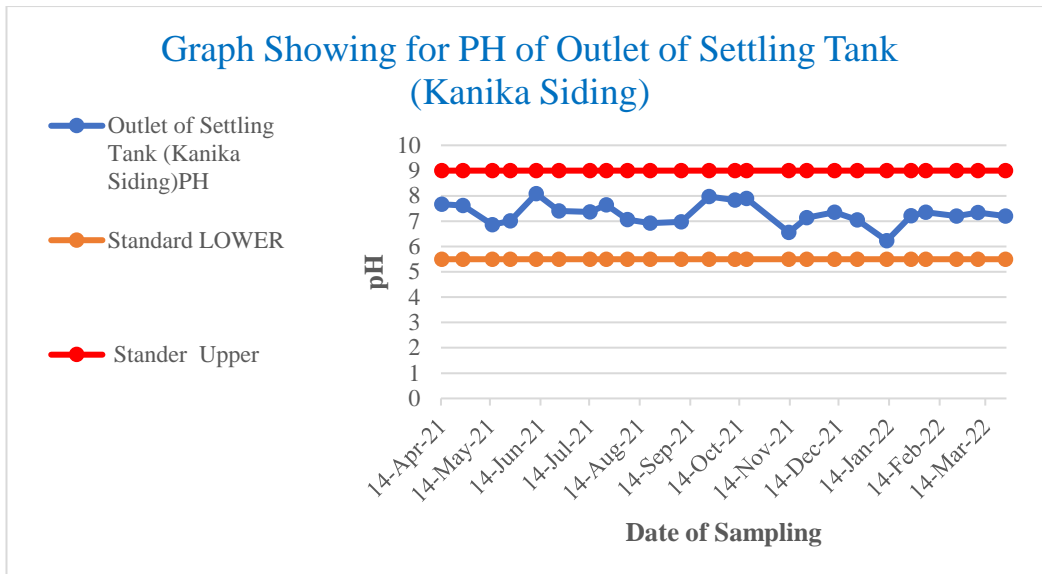
Monitoring station: Outlet of Settling Tank (Kanika Siding)

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	7.67	<4.0	94	148
27-Apr-21	7.62	<4.0	86	132
15-May-21	6.86	<4.0	42	28
26-May-21	7.02	<4.0	34	20
11-Jun-21	8.09	<4.0	36	32
25-Jun-21	7.41	<4.0	76	96
14-Jul-21	7.37	<4.0	68	72
24-Jul-21	7.65	<4.0	78	88
06-Aug-21	7.07	<4.0	88	96
20-Aug-21	6.92	<4.0	64	56
08-Sep-21	6.98	<4.0	58	48
25-Sep-21	7.98	<4.0	38	28
11-Oct-21	7.84	<4.0	46	32
18-Oct-21	7.9	<4.0	46	36
13-Nov-21	6.56	<4.0	94	128
24-Nov-21	7.14	<4.0	40	48
11-Dec-21	7.35	<4.0	26	28
25-Dec-21	7.05	<4.0	70	116
12-Jan-22	6.23	<4.0	72	48
27-Jan-22	7.22	<4.0	74	56
05-Feb-22	7.36	<4.0	62	48
24-Feb-22	7.21	<4.0	52	40
09-Mar-22	7.34	<4.0	40	36
26-Mar-22	7.21	<4.0	46	28

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:9.34

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

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Jun-21	6.83	<4.0	92	116
08-Sep-21	6.71	<4.0	74	68
11-Dec-21	7.62	<4.0	40	36
09-Mar-22	7.41	<4.0	46	40

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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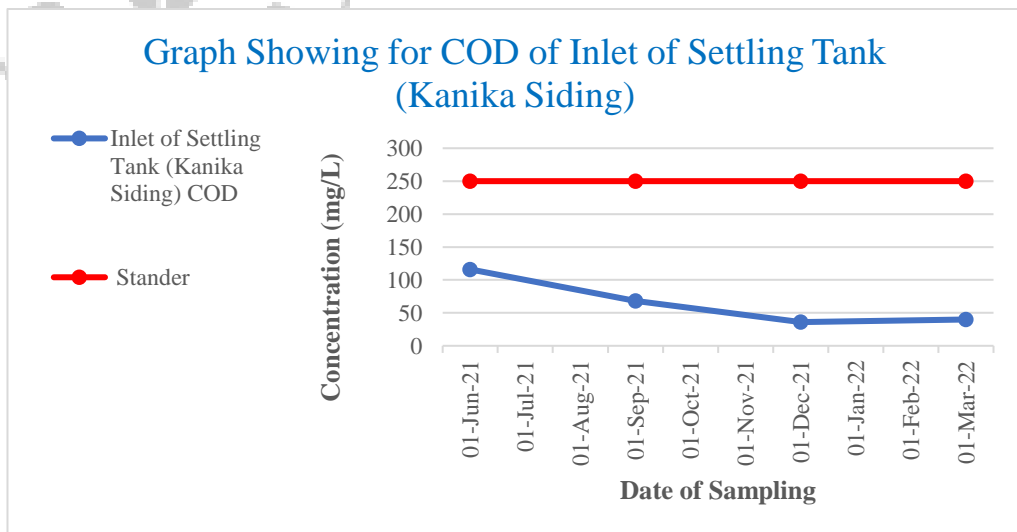
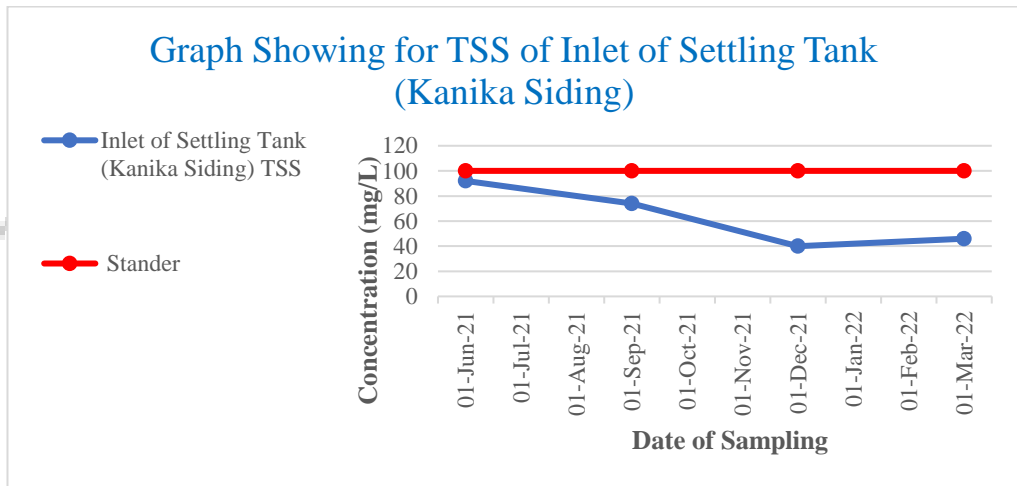
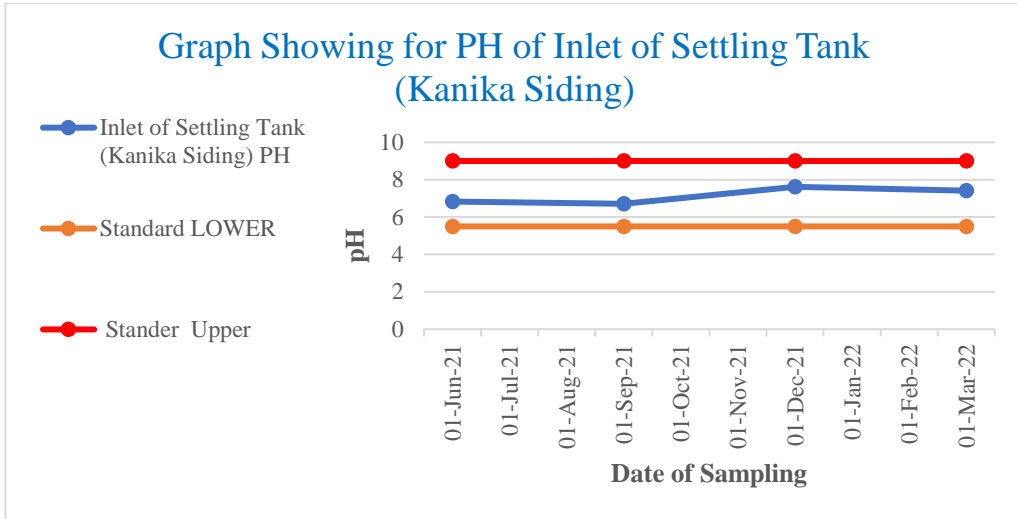
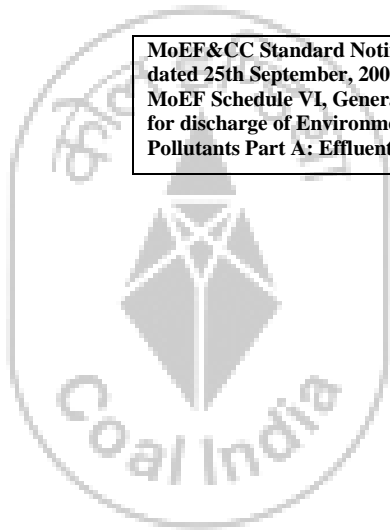


Table:9.35

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

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Jun-21	7.39	<4.0	42	32
08-Sep-21	6.83	<4.0	48	40
11-Dec-21	7.62	<4.0	22	56
09-Mar-22	7.45	<4.0	34	24

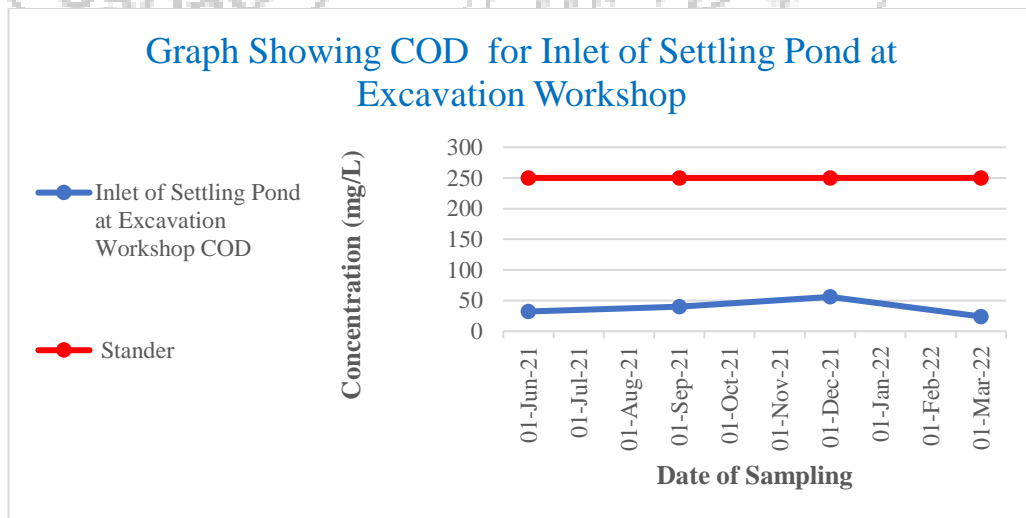
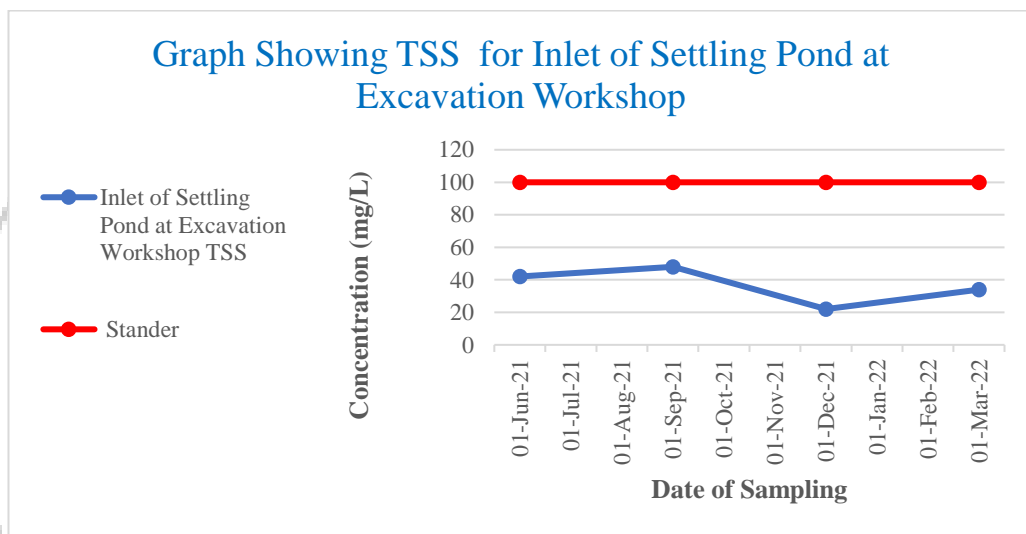
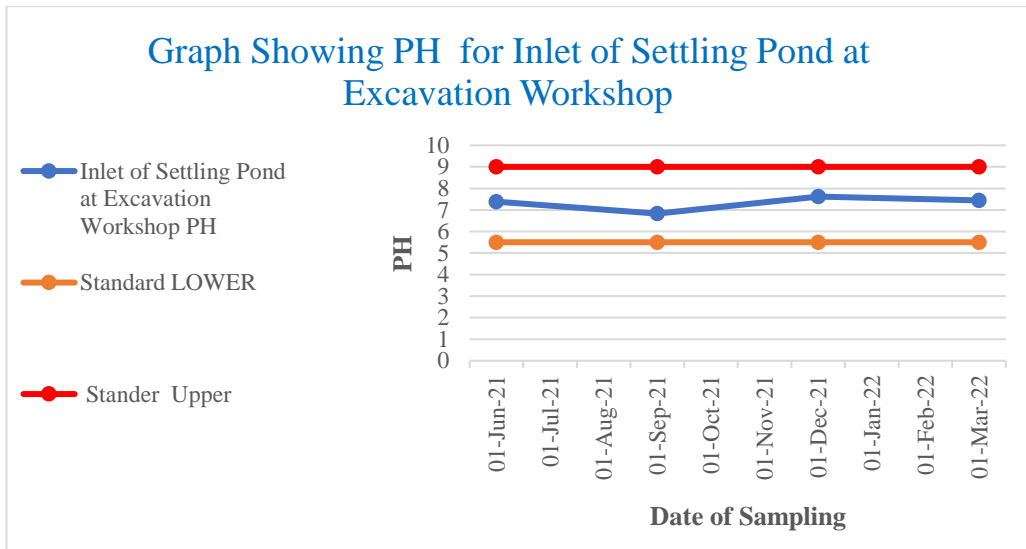
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.36

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

Date of Sampling	pH	Oil & Grease	TSS	COD
11-Jun-21	8.1	<4.0	28	20
08-Sep-21	7.09	<4.0	34	28
11-Dec-21	7.66	<4.0	18	32
09-Mar-22	7.55	<4.0	28	16

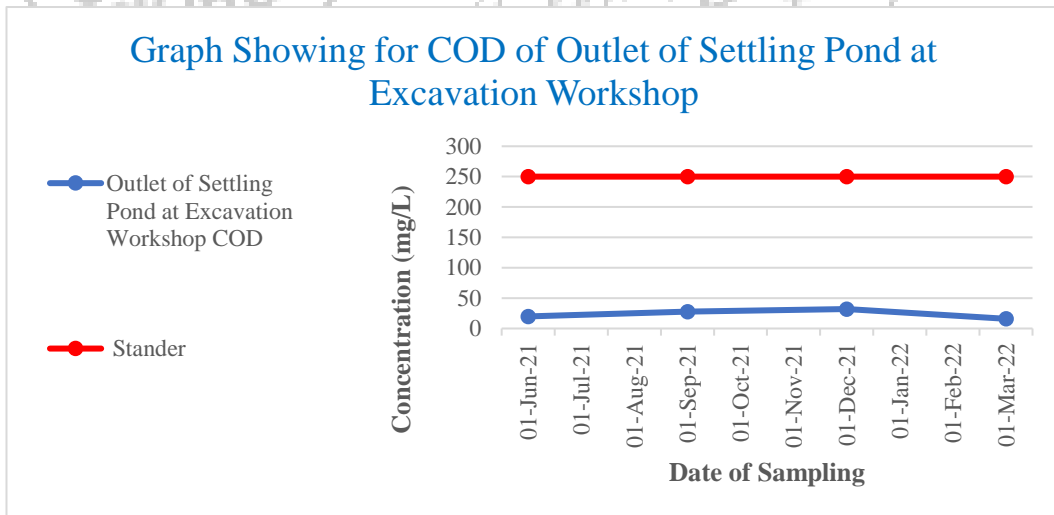
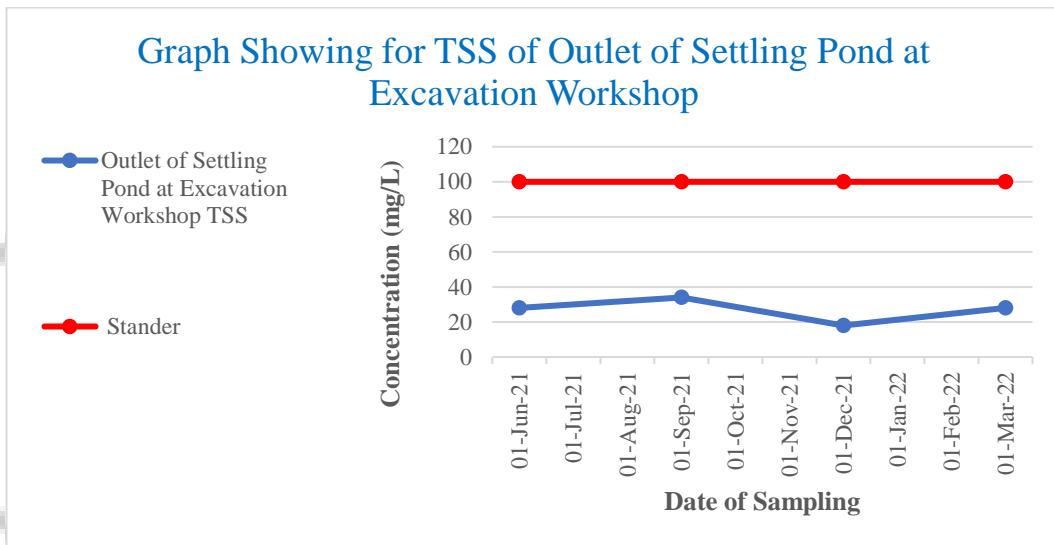
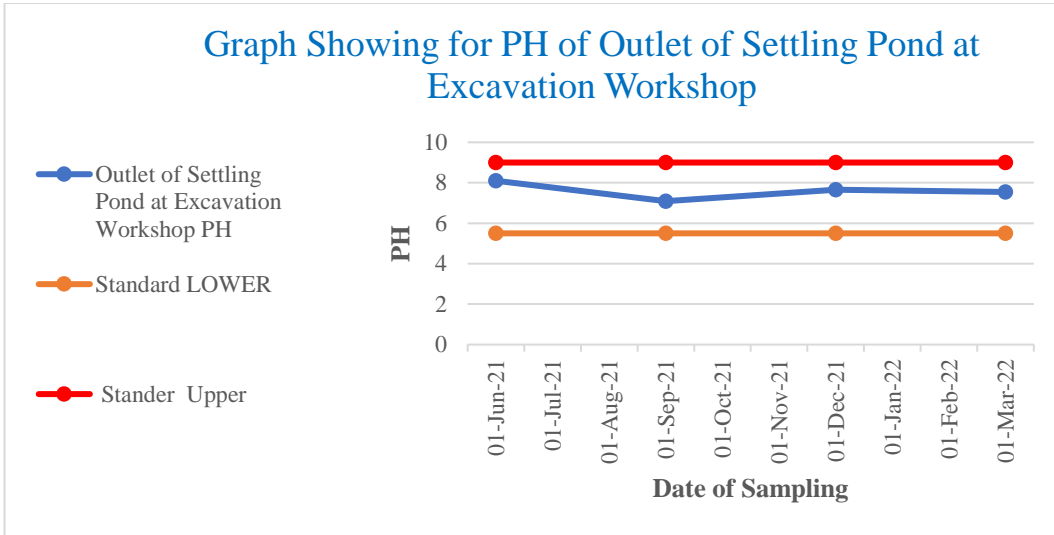
MoEF&CC Standard Notification dated 25th September, 2000 and MoEF Schedule VI, General standard for discharge of Environmental Pollutants Part A: Effluents	pH	Oil & Grease	TSS	COD	BOD
	5.5-9.0	10	100	250	30



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Table:9.37

Area: Mahalaxmi

Project: Basundhara (W) OCP

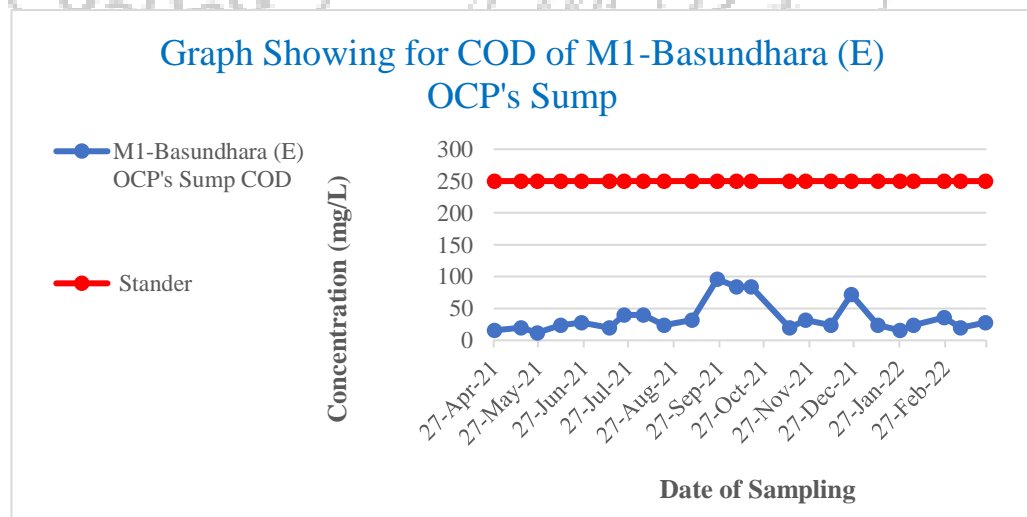
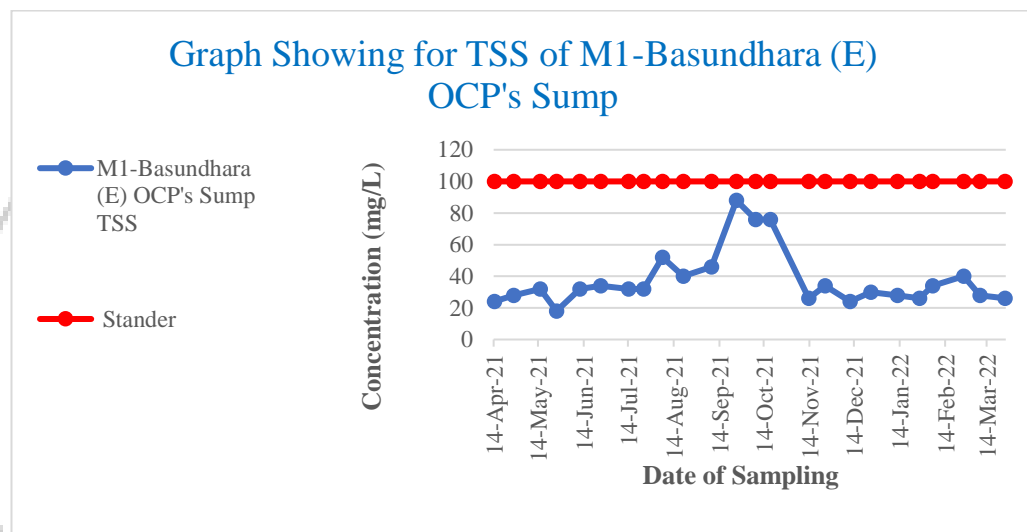
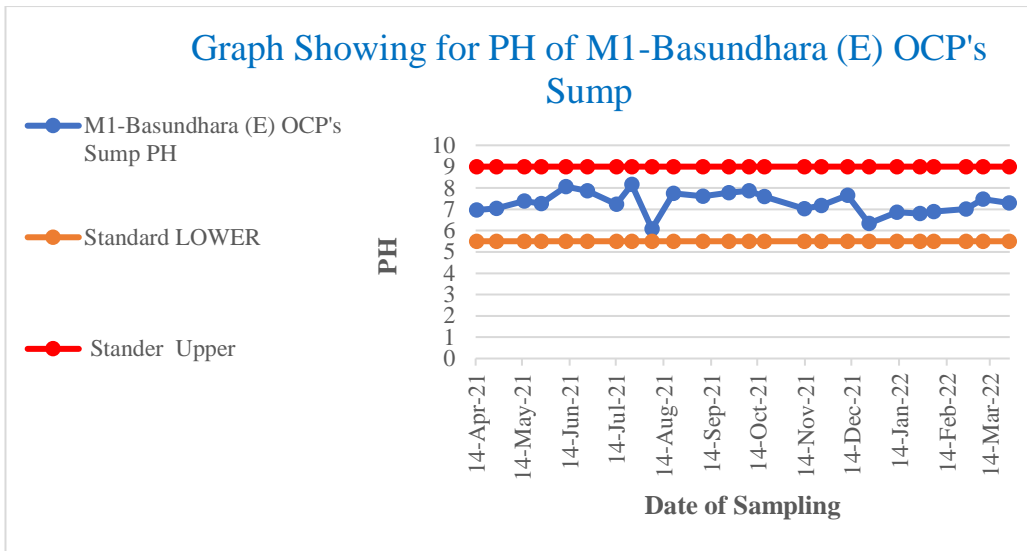
Monitoring station: M1-Basundhara (E) OCP's Sump

Date of Sampling	pH	Oil & Grease	TSS	COD
14-Apr-21	6.96	<4.0	24	12
27-Apr-21	7.04	<4.0	28	16
15-May-21	7.39	<4.0	32	20
26-May-21	7.26	<4.0	18	12
11-Jun-21	8.06	<4.0	32	24
25-Jun-21	7.86	<4.0	34	28
14-Jul-21	7.23	<4.0	32	20
24-Jul-21	8.16	<4.0	32	40
06-Aug-21	6.08	<4.0	52	40
20-Aug-21	7.75	<4.0	40	24
08-Sep-21	7.61	<4.0	46	32
25-Sep-21	7.78	<4.0	88	96
08-Oct-21	7.86	<4.0	76	84
18-Oct-21	7.59	<4.0	76	84
13-Nov-21	7.03	<4.0	26	20
24-Nov-21	7.18	<4.0	34	32
11-Dec-21	7.65	<4.0	24	24
25-Dec-21	6.34	<4.0	30	72
12-Jan-22	6.86	<4.0	28	24
27-Jan-22	6.8	<4.0	26	16
05-Feb-22	6.89	<4.0	34	24
26-Feb-22	7.01	<4.0	40	36
09-Mar-22	7.48	<4.0	28	20
26-Mar-22	7.3	<4.0	26	28

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:9.38

Area: Orient

Project: Orient Mine No. 1 & 2

Monitoring station: Mine Sump of Mine No. 2

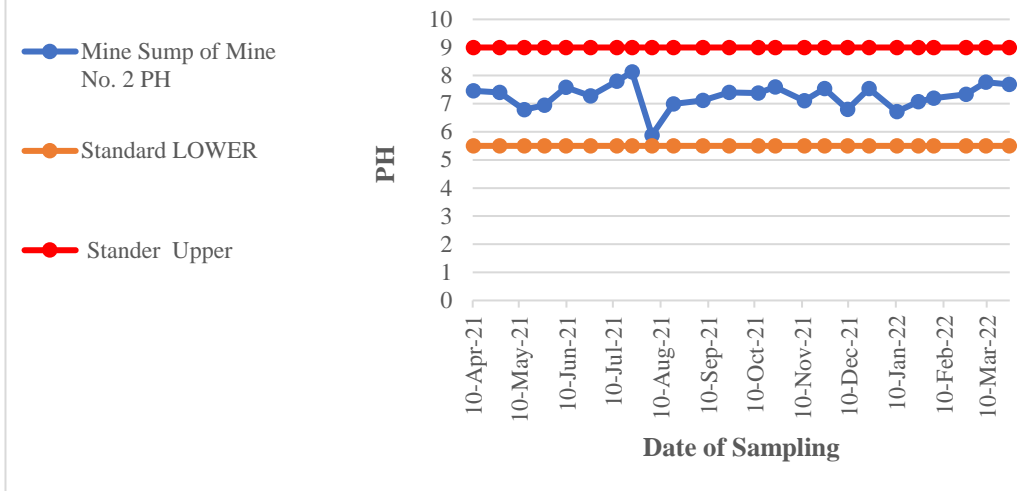
Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	7.46	<4.0	32	20
27-Apr-21	7.4	<4.0	38	24
13-May-21	6.79	<4.0	48	36
26-May-21	6.95	<4.0	36	24
09-Jun-21	7.58	<4.0	44	28
25-Jun-21	7.27	<4.0	34	20
12-Jul-21	7.8	<4.0	24	16
22-Jul-21	8.13	<4.0	40	24
04-Aug-21	5.88	<4.0	36	20
18-Aug-21	6.99	<4.0	36	24
06-Sep-21	7.12	<4.0	42	28
23-Sep-21	7.4	<4.0	68	76
12-Oct-21	7.38	<4.0	60	68
23-Oct-21	7.59	<4.0	58	68
11-Nov-21	7.1	<4.0	36	28
24-Nov-21	7.54	<4.0	42	36
09-Dec-21	6.8	<4.0	24	40
23-Dec-21	7.54	<4.0	20	44
10-Jan-22	6.72	<4.0	32	36
24-Jan-22	7.07	<4.0	48	28
03-Feb-22	7.19	<4.0	54	24
24-Feb-22	7.33	<4.0	48	32
09-Mar-22	7.77	<4.0	44	32
24-Mar-22	7.69	<4.0	48	36

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

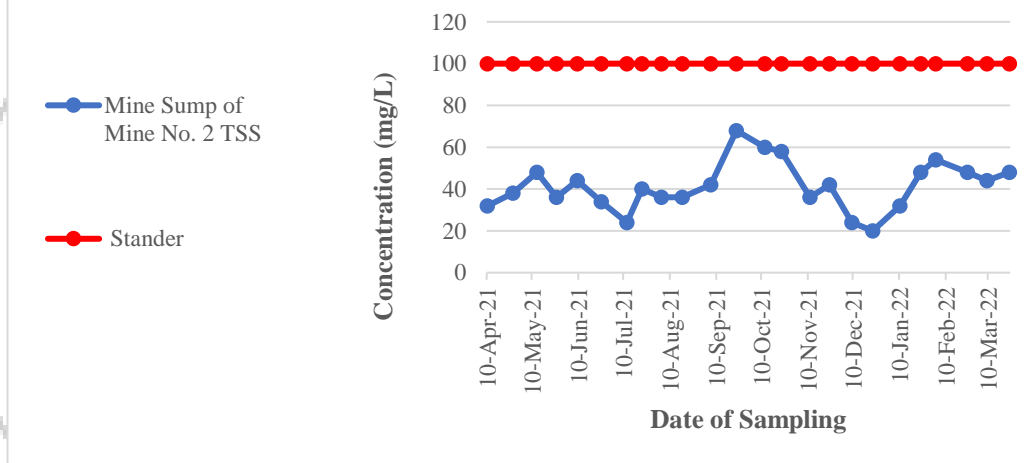
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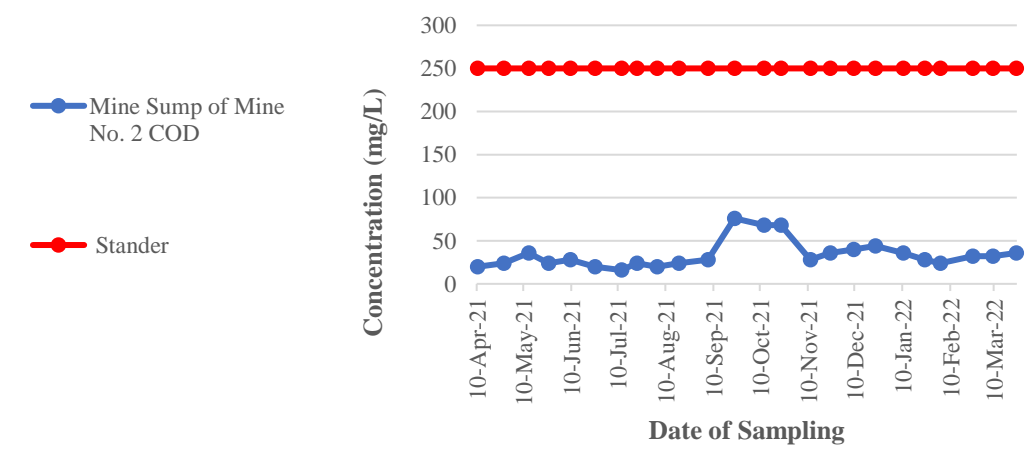
Graph Showing for PH of Mine Sump of Mine No. 2



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



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



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Table:9.39

Area: Orient

Project: Orient Mine No. 3

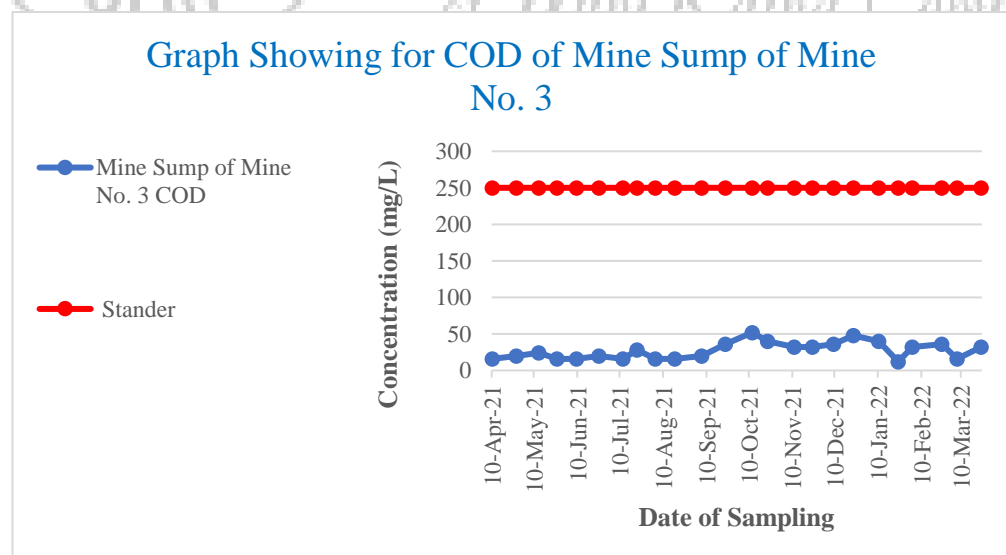
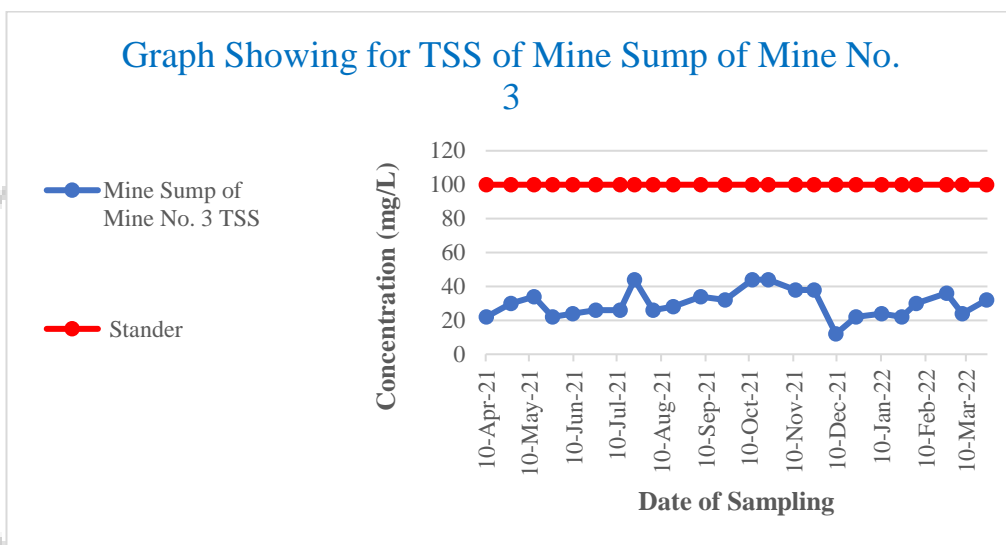
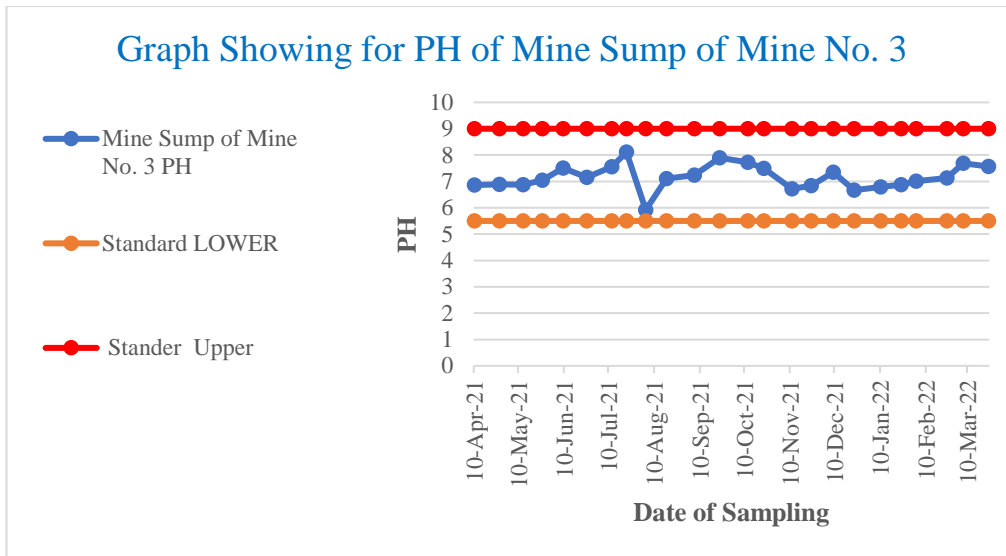
Monitoring station: Mine Sump of Mine No. 3

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	6.86	<4.0	22	16
27-Apr-21	6.89	<4.0	30	20
13-May-21	6.87	<4.0	34	24
26-May-21	7.04	<4.0	22	16
09-Jun-21	7.51	<4.0	24	16
25-Jun-21	7.16	<4.0	26	20
12-Jul-21	7.55	<4.0	26	16
22-Jul-21	8.11	<4.0	44	28
04-Aug-21	5.92	<4.0	26	16
18-Aug-21	7.1	<4.0	28	16
06-Sep-21	7.24	<4.0	34	20
23-Sep-21	7.9	<4.0	32	36
12-Oct-21	7.73	<4.0	44	52
23-Oct-21	7.49	<4.0	44	40
11-Nov-21	6.72	<4.0	38	32
24-Nov-21	6.84	<4.0	38	32
09-Dec-21	7.35	<4.0	12	36
23-Dec-21	6.67	<4.0	22	48
10-Jan-22	6.79	<4.0	24	40
24-Jan-22	6.87	<4.0	22	12
03-Feb-22	7.01	<4.0	30	32
24-Feb-22	7.13	<4.0	36	36
07-Mar-22	7.69	<4.0	24	16
24-Mar-22	7.57	<4.0	32	32

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

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Table:9.40

Area: Orient

Project: Orient Mine No. 4

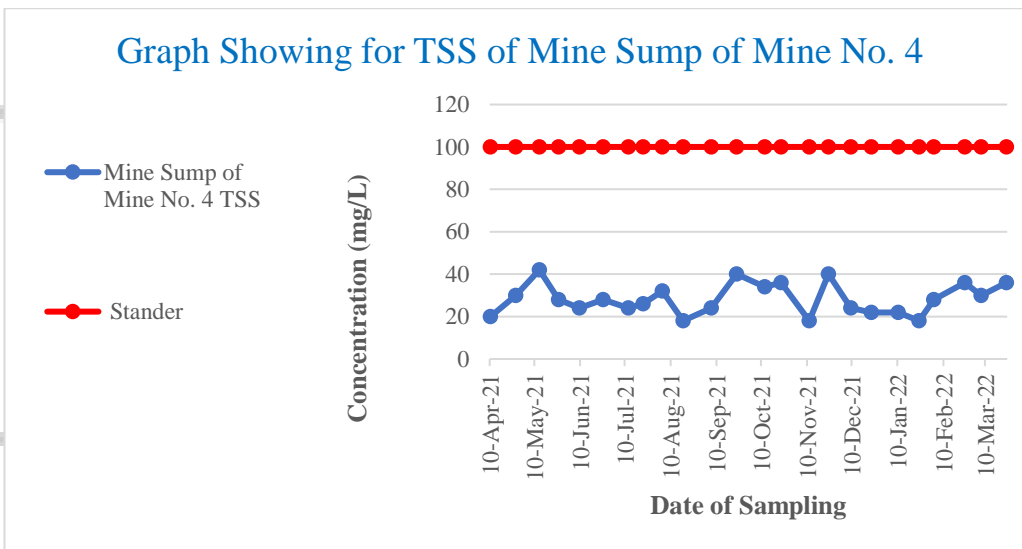
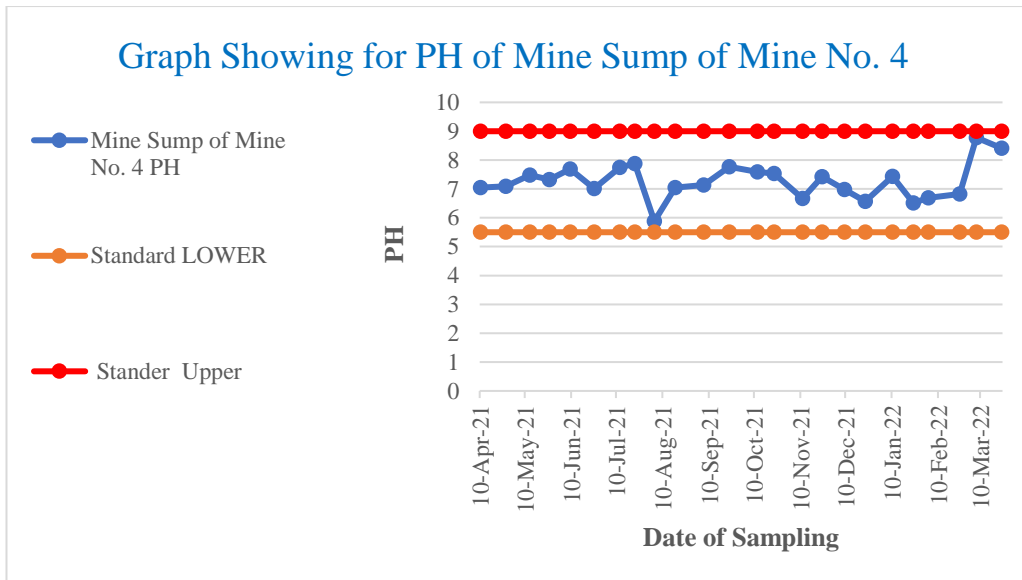
Monitoring station: Mine Sump of Mine No. 4

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	7.05	<4.0	20	12
27-Apr-21	7.09	<4.0	30	20
13-May-21	7.48	<4.0	42	28
26-May-21	7.32	<4.0	28	20
09-Jun-21	7.69	<4.0	24	16
25-Jun-21	7.01	<4.0	28	20
12-Jul-21	7.75	<4.0	24	16
22-Jul-21	7.88	<4.0	26	16
04-Aug-21	5.88	<4.0	32	16
18-Aug-21	7.05	<4.0	18	12
06-Sep-21	7.14	<4.0	24	16
23-Sep-21	7.77	<4.0	40	36
12-Oct-21	7.59	<4.0	34	28
23-Oct-21	7.54	<4.0	36	32
11-Nov-21	6.67	<4.0	18	16
24-Nov-21	7.42	<4.0	40	44
09-Dec-21	6.98	<4.0	24	28
23-Dec-21	6.57	<4.0	22	44
10-Jan-22	7.44	<4.0	22	44
24-Jan-22	6.51	<4.0	18	20
03-Feb-22	6.69	<4.0	28	24
24-Feb-22	6.82	<4.0	36	32
07-Mar-22	8.78	<4.0	30	36
24-Mar-22	8.41	<4.0	36	32

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

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Table:9.41

Area: Orient

Project: HBI Mine

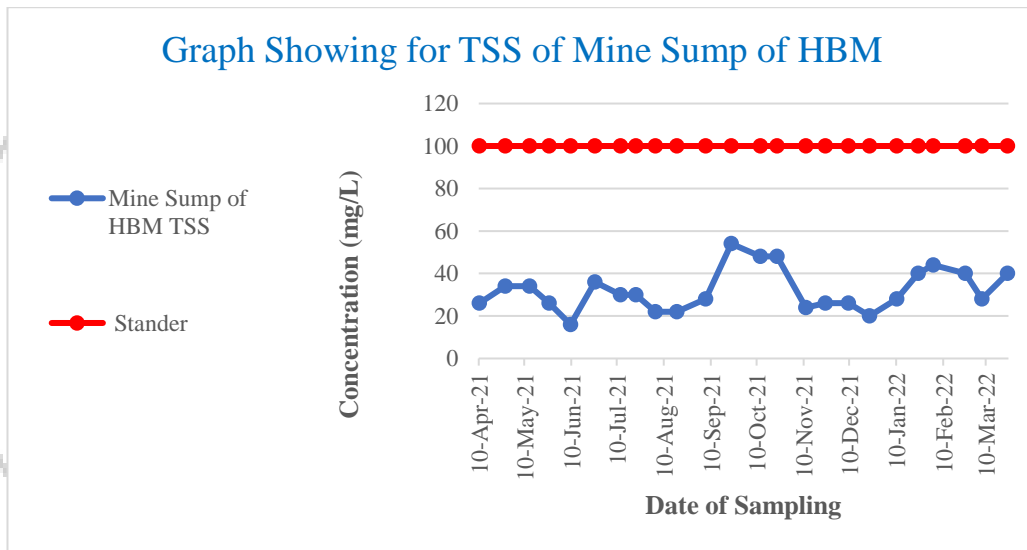
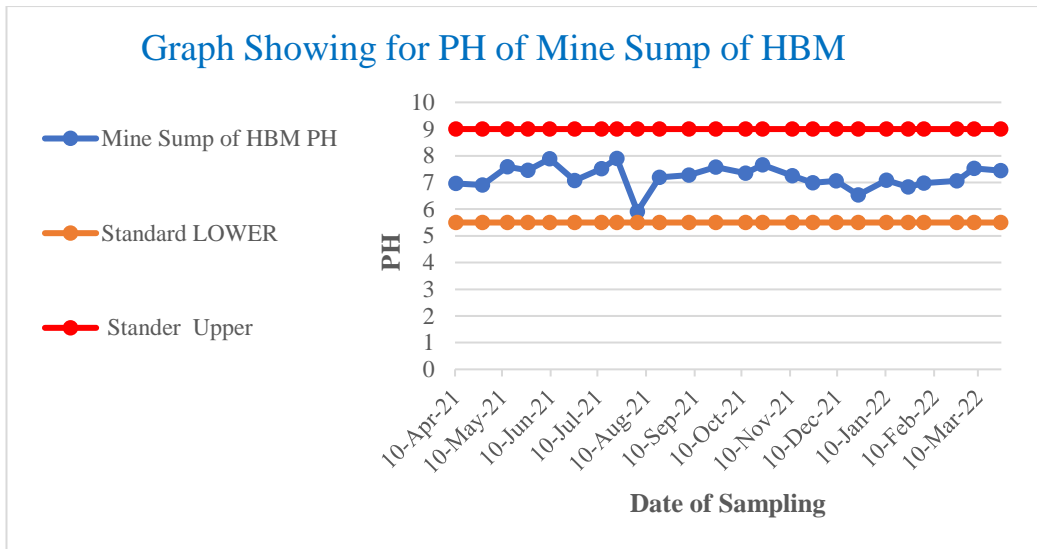
Monitoring station: Mine Sump of HBM

Date of Sampling	pH	Oil & Grease	TSS	COD
10-Apr-21	6.96	<4.0	26	16
27-Apr-21	6.9	<4.0	34	24
13-May-21	7.59	<4.0	34	24
26-May-21	7.45	<4.0	26	20
09-Jun-21	7.89	<4.0	16	12
25-Jun-21	7.07	<4.0	36	24
12-Jul-21	7.51	<4.0	30	20
22-Jul-21	7.9	<4.0	30	20
04-Aug-21	5.91	<4.0	22	16
18-Aug-21	7.19	<4.0	22	12
06-Sep-21	7.27	<4.0	28	20
23-Sep-21	7.57	<4.0	54	48
12-Oct-21	7.35	<4.0	48	40
23-Oct-21	7.66	<4.0	48	40
11-Nov-21	7.25	<4.0	24	20
24-Nov-21	6.99	<4.0	26	20
09-Dec-21	7.06	<4.0	26	40
23-Dec-21	6.53	<4.0	20	40
10-Jan-22	7.08	<4.0	28	40
24-Jan-22	6.83	<4.0	40	52
03-Feb-22	6.97	<4.0	44	28
24-Feb-22	7.06	<4.0	40	24
07-Mar-22	7.53	<4.0	28	20
24-Mar-22	7.44	<4.0	40	28

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

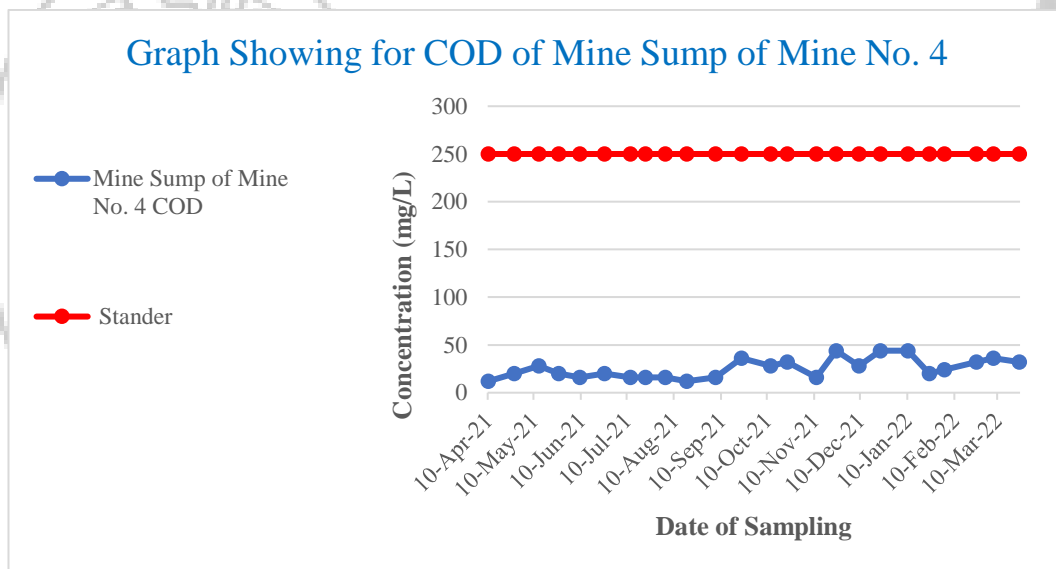
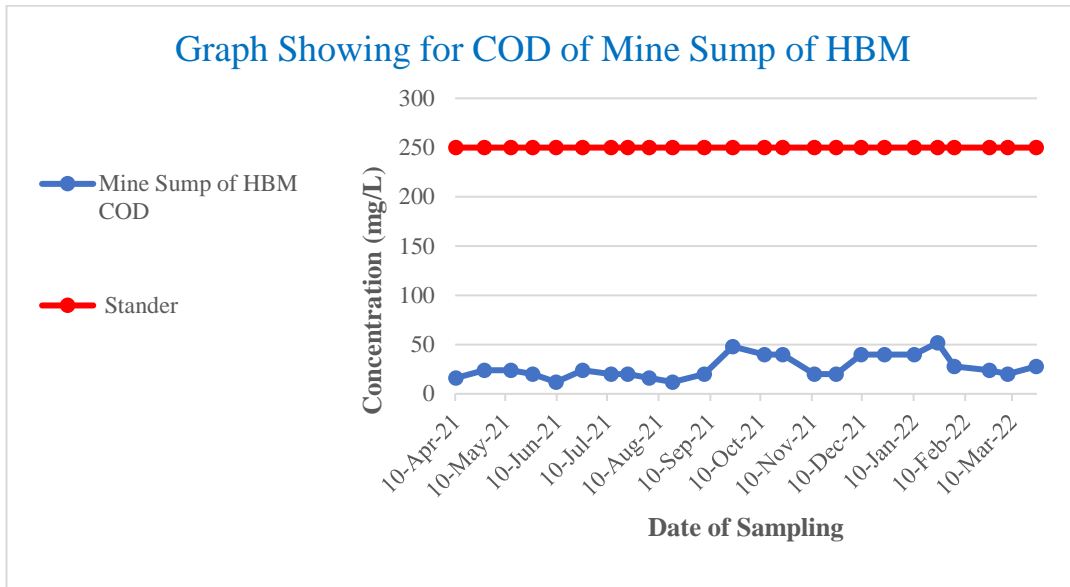
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EFFLUENT 22 PARAMETERS QUALITY DATA

Table: 9.42

Area: Ib valley

Project: Samleswari OCP

Project (OCP / UG)	Smleswari OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	11/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.43

Area: Ib valley

Project: Lajkura OCP

Project (OCP / UG)	Lajkura OCP		MoEF-Sch-VI Standards
	Outlet of MDTP	Mine Sump Water	
NAME OF THE STATION			
Date of Sampling	11/Nov/2021	11/Nov/2021	
Colour(Hazen)	<1.0	<1.0	–
Odour	Unobjectionable	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	<2.0	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)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	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	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.44

Area: Ib valley

Project: Lilari OCP

Project (OCP / UG)	Lilari OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	12/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	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)	<0.02	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)	<0.3	2
Sulphide (mg/L)	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	1.0
Manganese(mg/L)	<0.004	2
Iron(mg/L)	<0.1	3
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.45

Area: Ib valley

Project: Lakhanpur OCP

Project (OCP / UG)	Lakhanpur OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	12/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	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)	<0.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.46

Area: Ib valley

Project: Belpahar OCP

Project (OCP / UG)	Belpahar OCP	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump Water	
Date of Sampling	12/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<0.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.47

Area: Ib valley

Project: Kulda OCP

Project (OCP / UG)	Kulda OCP			MoEF-Sch-VI Standards
	NAME OF THE STATION	Inlet of ETP	Final outlet of ETP	
Date of Sampling	13/Nov/2021	13/Nov/2021	13/Nov/2021	
Colour(Hazen)	<1.0	<1.0	<1.0	–
Odour	Unobjectionable	Unobjectionable	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	<1.0	100
BOD [3 days at 27°C] (mg/L)	<2.0	<2.0	<2.0	30
Arsenic, mg/l	<0.005	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	<4.0	5

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Table: 9.48

Area: Ib valley

Project: Basundhara OCP

Project (OCP / UG)	Basundhara OCP		MoEF-Sch-VI Standards
NAME OF THE STATION	Outlet of settling pond at Excavation workshop B (W) OCP	Basundhara (E) OCP's Sump	
Date of Sampling	13/Nov/2021	13/Nov/2021	
Colour(Hazen)	<1.0	<1.0	–
Odour	Unobjectionable	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	<2.0	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)	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	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	<0.04	2
Iron(mg/L)	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	5

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Table: 9.49

Area: Ib valley

Project: Garjhanbahal OCP

Project (OCP / UG)	Garjhanbahal OCP			
NAME OF THE STATION	Inlet of Settling tank (Kanika Siding)	Outlet of Settling tank (Kanika Siding)	Mine Sump Water	MoEF-Sch-VI Standards
Date of Sampling	13/Nov/2021	13/Nov/2021	13/Nov/2021	
Colour(Hazen)	<1.0	<1.0	<1.0	–
Odour	Unobjectionable	Unobjectionable	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	<0.5	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	<0.5	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	<1.0	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	<2.0	<2.0	30
Arsenic, mg/l	<0.005	<0.005	<0.005	0.2
Lead, mg/l	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium(mg/L)	<0.05	<0.05	<0.05	0.1
Total Chromium(mg/L)	<0.02	<0.02	<0.02	2
Copper(mg/L)	<0.03	<0.03	<0.03	3
Zinc(mg/L)	<0.04	<0.04	<0.04	5
Selenium(mg/L)	<0.005	<0.005	<0.005	0.05
Cadmium(mg/L)	<0.001	<0.001	<0.001	2.0
Nickel(mg/L)	<0.1	<0.1	<0.1	3
Fluoride(mg/L)	<0.3	<0.3	<0.3	2
Sulphide (mg/L)	<0.1	<0.1	<0.1	2.0
Phenolic Compounds(mg/L)	<0.001	<0.001	<0.001	1.0
Manganese(mg/L)	<0.04	<0.04	<0.04	2
Iron(mg/L)	<0.1	<0.1	<0.1	3
Disolved Phosphate(mg/L)	<4.0	<4.0	<4.0	5

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Table: 9.50

Area: Ib valley

Project: Orient Mine No.2

Project (OCP / UG)	Orient Mine No.2	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump. of Mine No.2	
Date of Sampling	11/Nov/2021	
Colour(Hazen)	<1.0	—
Odour	Unobjectionable	—
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	30
Arsenic, mg/l	<0.005	0.2
Lead, mg/l	<0.005	0.1
Hexavelent Chromium(mg/L)	<0.05	0.1
Total Chromium(mg/L)	<2.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.51

Area: Ib valley

Project: Orient Mine No.3

Project (OCP / UG)	Orient Mine No.3	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump. of Mine No.3	
Date of Sampling	11/Nov/2021	
Colour(Hazen)	<1.0	—
Odour	Unobjectionable	—
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	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)	<0.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.52

Area: Ib valley

Project: HBI Mine

Project (OCP / UG)	HBI Mine	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump. of HBM	
Date of Sampling	11/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	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)	<0.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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Table: 9.53

Area: Ib valley

Project: Orient Mine No.4

Project (OCP / UG)	Orient Mine No.4	MoEF-Sch-VI Standards
NAME OF THE STATION	Mine Sump. of Mine No.4	
Date of Sampling	11/Nov/2021	
Colour(Hazen)	<1.0	–
Odour	Unobjectionable	–
Nitrate Nitrogen(mg/L)(As N)	<0.5	10
Ammonical Nitrogen , mg/l (As N)	<0.5	50
Total Kjeldhal Nitrogen, mg/l (As N)	<1.0	100
BOD [3 days at 27oC] (mg/L)	<2.0	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)	<0.02	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)	<0.3	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
Disolved Phosphate(mg/L)	<4.0	5

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SURFACE WATER QUALITY

cmpdi
A Mini Ratna Company

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JOB NO.750001

TABLE NO 10 FOR SURFACE WATER QUALITY DATA

Table:10.1
Area: Ib valley
Project: Samaleswari OCP

Project/OCP	Samaleswari OCP			
NAME OF STATIONS	Pandren Nallah Near Global Washery	Pandren Nallah Before Confluence Point With Lilari Nallah	Pandren Nallah Near Global Washery	Pandren Nallah Before Confluence Point With Lilari Nallah
Date of sampling	22-Jul-2021	22-Jul-2021	24-Feb-2022	24-Feb-2022
pH	6.99	6.81	6.30	6.40
Dissolved Oxygen(mg/L)	6.8	6.6	6.0	6.3
BOD (3 days 27oc(mg/L)	<2.0	<2.0	<2.0	2.4
Color (Hazen unit)	1	2	3	2
Total dissolved solids (mg/L)	364	336	148	152
TSS(mg/L)	64	74	30	34
Total Hardness(mg/L)	228	208	60	80
Copper(mg/L)	<0.03	<0.03	<0.04	<0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	17.87	17.87	22	10
Sulphate(mg/L)	148.09	140.44	12.71	50.28
Nitrate(mg/L)	3.23	3.05	1.0	2.14
Fluoride(mg/L)	0.66	0.72	0.36	0.39
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	<0.04
Chromium(as Cr6)(mg/L)	<0.01	<0.01	<0.05	<0.05
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)			12	14
Selenium(mg/L)			<0.005	<0.005

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Table: 10.2

Area: Ib valley

Project: Lajkura OCP

Project/OCP	Lajkura OCP			
NAME OF STATIONS	U/S of Baghmara Nala at Discharge Point	D/S of Baghmara Nala at Discharge Point	U/S of Baghmara Nala at Discharge Point	D/S of Baghmara Nala at Discharge Point
Date of sampling	22-Jul-2021	22-Jul-2021	24-Feb-2022	24-Feb-2022
pH	6.83	6.90	6.87	6.71
Dissolved Oxygen(mg/L)	7.1	7.2	6.4	6.5
BOD (3 days 27oc)(mg/L)	<2.0	<2.0	2.5	2.2
Color (Hazen unit)	1	2	1	2
Total dissolved solids (mg/L)	96	102	130	178
TSS(mg/L)	84	92	28	38
Total Hardness(mg/L)	44	48	72	72
Copper(mg/L)	<0.03	<0.03	<0.04	<0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	9.93	9.93	10	25
Sulphate(mg/L)	24.85	26.76	5.86	10.57
Nitrate(mg/L)	2.04	1.35	<0.5	<0.5
Fluoride(mg/L)	<0.30	0.42	0.31	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	<0.04	<0.04	<0.04
Chromium(as Cr6)(mg/L)	<0.01	<0.01	<0.05	<0.05
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)			11	9.2
Selenium(mg/L)			<0.005	<0.005

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JOB NO.750001

Table: 10.3

Area: Lakhanpur

Project: Lakhanpur

Project/OCP	Lakhanpur			
NAME OF STATIONS	Pulijhor Stream Near Tingismal Village as u/s for Lakhanpur OCP	Pulijhor Stream Near Darlipalil Village Before Confluence to Lilari Nallah as d/s Water of Lakhanpur OCP	Lilari Nallah Near Kudaloi Village as u/s of Lakhanpur OCP	Lilari Nallah Near Project Office Lilari Bridge Village as d/s of Lakhanpur OCP
Date of sampling	23-Jul-2021	23-Jul-2021	23-Jul-2021	23-Jul-2021
pH	6.68	6.96	6.63	7.01
Dissolved Oxygen(mg/L)	6.9	6.7	6.7	6.9
BOD (3 days 27oc)(mg/L)	<2.0	<2.0	<2.0	<2.0
Color (Hazen unit)	2	3	1	2
Total dissolved solids (mg/L)	56	110	54	108
TSS(mg/L)	72	96	78	112
Total Hardness(mg/L)	20	44	16	44
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)	7.94	15.89	5.96	13.9
Sulphate(mg/L)	23.82	28.53	23.53	25.00
Nitrate(mg/L)	9.06	8.99	8.73	<0.50
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30
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	<0.04
Chromium(as Cr6)(mg/L)	<0.01	<0.01	<0.01	<0.01
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)				
Selenium(mg/L)				

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Table: 10.4

Area: Lakhanpur

Project: Lakhanpur

Project/OCP	Lakhanpur			
NAME OF STATIONS	Pulijhor Stream Near Tingimal Village as u/s for Lakhanpur OCP	Pulijhor Stream Near Darlipalil Village Before Confluence to Lilari Nallah as d/s Water of Lakhanpur OCP	Lilari Nallah Near Kudaloi Village as u/s of Lakhanpur OCP	Lilari Nallah Near Project Office Lilari Bridge Village as d/s of Lakhanpur OCP
Date of sampling	25-Feb-2022	25-Feb-2022	25-Feb-2022	25-Feb-2022
pH	6.62	7.26	6.65	7.08
Dissolved Oxygen(mg/L)	6.0	6.2	6.6	6.4
BOD (3 days 27oc)(mg/L)	<2.0	2.4	2.3	2.4
Color (Hazen unit)	4	3	3	1
Total dissolved solids (mg/L)	146	80	124	156
TSS(mg/L)	30	40	44	26
Total Hardness(mg/L)	88	48	40	76
Copper(mg/L)	<0.04	<0.04	<0.04	<0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	10	8	12	14
Sulphate(mg/L)	46	3.29	11.86	10.86
Nitrate(mg/L)	2.11	0.71	0.31	1.29
Fluoride(mg/L)	0.41	<0.3	<0.3	0.37
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	0.06	<0.04
Chromium(as Cr6)(mg/L)	<0.05	<0.05	<0.05	<0.05
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)	10	8.3	12	10
Selenium(mg/L)	<0.005	<0.005	<0.005	<0.005

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JOB NO.750001

Table: 10.5

Area: Basundhara OCP**Project:** Basundhara OCP

Project/OCP	Basundhara OCP			
NAME OF STATIONS	Basundhara River u/s Point Near Tilkipara	Basundhara River d/s Point Near Tilkipara	Basundhara River u/s Point Near Tilkipara	Basundhara River d/s Point Near Tilkipara
Date of sampling	24-Jul-2021	24-Jul-2021	26-Feb-2022	26-Feb-2022
pH	7.04	7.18	6.57	6.73
Dissolved Oxygen(mg/L)	7.0	7.1	6.5	6.1
BOD (3 days 27oc)(mg/L)	<2.0	<2.0	2.2	<2.0
Color (Hazen unit)	1	2	1	3
Total dissolved solids (mg/L)	60	62	126	58
TSS(mg/L)	44	52	34	38
Total Hardness(mg/L)	20	20	56	32
Copper(mg/L)	<0.03	<0.03	<0.04	<0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	5.96	5.96	20	8
Sulphate(mg/L)	9.85	8.82	11.43	3.14
Nitrate(mg/L)	1.52	1.45	<0.5	<0.5
Fluoride(mg/L)	0.35	0.39	<0.3	<0.3
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	0.05	<0.04
Chromium(as Cr6)(mg/L)	<0.01	<0.01	<0.05	<0.05
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)			14	12
Selenium(mg/L)			<0.005	<0.005

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Table: 10.6

Area: Basundhara OCP

Project: Kulda OCP

Project/OCP	Kulda OCP			
NAME OF STATIONS	Basundhara River Near Bankibahal Bridge as u/s Water	Basundhara River Near Barpali Village as d/s Water	Basundhara River Near Bankibahal Bridge as u/s Water	Basundhara River Near Barpali Village as d/s Water
Date of sampling	24-Jul-2021	24-Jul-2021	26-Feb-2022	26-Feb-2022
pH	6.85	6.88	6.57	6.55
Dissolved Oxygen(mg/L)	7.0	6.7	6.2	6.3
BOD (3 days 27oc)(mg/L)	<2.0	<2.0	2.1	2.3
Color (Hazen unit)	3	3	2	3
Total dissolved solids (mg/L)	56	62	122	120
TSS(mg/L)	62	74	22	46
Total Hardness(mg/L)	20	24	40	44
Copper(mg/L)	<0.03	<0.03	<0.04	<0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	3.97	5.96	12	16
Sulphate(mg/L)	24.12	22.21	10.86	11.29
Nitrate(mg/L)	6.85	6.56	1.32	1.34
Fluoride(mg/L)	<0.30	<0.30	<0.3	<0.3
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	0.06
Chromium(as Cr6)(mg/L)	<0.01	<0.01	<0.05	<0.05
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)			9.2	6.8
Selenium(mg/L)			<0.005	<0.005

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Table: 10.7

Area: Basundhara OCP

Project: Garjanbahal

Project/OCP		Garjanbahal	
NAME OF STATIONS	Basundhara River Near Bankibahal Bridge as u/s Water (Reported Only)	Basundhara River Near Barpali Village as d/sWater (Reported Only)	
Date of sampling	24-Jul-2021	24-Jul-2021	
pH	6.85	6.88	
Dissolved Oxygen(mg/L)	7.0	6.7	
BOD (3 days 27oc(mg/L)	<2.0	<2.0	
Color (Hazen unit)	3	3	
Total dissolved solids (mg/L)	56	62	
TSS(mg/L)	62	74	
Total Hardness(mg/L)	20	24	
Copper(mg/L)	<0.03	<0.03	
Iron(mg/L)	<0.1	<0.1	
Chlorides(mg/L)	3.97	5.96	
Sulphate(mg/L)	24.12	22.21	
Nitrate(mg/L)	6.85	6.56	
Fluoride(mg/L)	<0.30	<0.30	
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	
Chromium(as Cr6)(mg/L)	<0.01	<0.01	
Oil & Grease	<4.0	<4.0	

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Table: 10.8

Area: Orient

Project: Orient Mine No. 1 & 2

Project/OCP			Orient Mine No. 1 & 2	
NAME OF STATIONS	U/S of Baghmara Nala at Discharge Point	D/S of Baghmara Nala at Discharge Point		
Date of sampling	24-Feb-2022	24-Feb-2022		
pH	7.12	7.44		
Dissolved Oxygen(mg/L)	6.4	6.5		
BOD (3 days 27oc(mg/L)	2.4	2.4		
Color (Hazen unit)	4	3		
Total dissolved solids (mg/L)	130	134		
TSS(mg/L)	28	24		
Total Hardness(mg/L)	72	72		
Copper(mg/L)	<0.04	<0.04		
Iron(mg/L)	<0.1	<0.1		
Chlorides(mg/L)	8	8		
Sulphate(mg/L)	6	5.71		
Nitrate(mg/L)	<0.5	<0.5		
Fluoride(mg/L)	<0.3	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		
Chromium(as Cr6)(mg/L)	<0.05	<0.05		
Oil & Grease	<4.0	<4.0		
MPN (Index/100 ml)	8.2	6.1		
Selenium(mg/L)	<0.005	<0.005		

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Table: 10.9

Area: Orient

Project: Orient Mine No. 3

Project/OCP		Orient Mine No. 3	
NAME OF STATIONS	Pond Water at Budhijam Village	Pond Water at Budhijam Village	
Date of sampling	22-Jul-2021	24-Feb-2022	
pH	6.87	7.03	
Dissolved Oxygen(mg/L)	6.6	6.6	
BOD (3 days 27oc)(mg/L)	<2.0	2.5	
Color (Hazen unit)	2	4	
Total dissolved solids (mg/L)	174	156	
TSS(mg/L)	46	22	
Total Hardness(mg/L)	56	76	
Copper(mg/L)	<0.03	<0.04	
Iron(mg/L)	<0.1	<0.1	
Chlorides(mg/L)	25.81	10	
Sulphate(mg/L)	12.06	48	
Nitrate(mg/L)	1.32	2.0	
Fluoride(mg/L)	0.49	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	
Chromium(as Cr6)(mg/L)	<0.01	<0.05	
Oil & Grease	<4.0	<4.0	
MPN (Index/100 ml)		10	
Selenium(mg/L)		<0.005	

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Table: 10.10

Area: Orient

Project: HBI

Project/OCP	HBI	
	IB River Near Kutabaga Village at Bridge Point	IB River Near Kutabaga Village at Bridge Point
NAME OF STATIONS		
Date of sampling	22-Jul-2021	24-Feb-2022
pH	7.18	7.29
Dissolved Oxygen(mg/L)	6.8	6.7
BOD (3 days 27oc)(mg/L)	<2.0	2.5
Color (Hazen unit)	1	5
Total dissolved solids (mg/L)	104	162
TSS(mg/L)	56	36
Total Hardness(mg/L)	48	104
Copper(mg/L)	<0.03	<0.04
Iron(mg/L)	<0.1	<0.1
Chlorides(mg/L)	5.96	23
Sulphate(mg/L)	10.59	42.29
Nitrate(mg/L)	2.01	2.18
Fluoride(mg/L)	0.56	0.39
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
Chromium(as Cr6)(mg/L)	<0.01	<0.05
Oil & Grease	<4.0	<4.0
MPN (Index/100 ml)		13
Selenium(mg/L)		<0.005

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Table: 10.11

Area: Orient

Project: Orient Mine No. 4

Project/OCP	Orient Mine No. 4			
NAME OF STATIONS	IB River Near Charbhati Village as u/s Water for IB Valley Coalfield	IB River Bridge of NH200 at Gondghora Village as u/s of Orient Area	IB River Near Charbhati Village as u/s Water for IB Valley Coalfield	IB River Bridge of NH200 at Gondghora Village as u/s of Orient Area
Date of sampling	22-Jul-2021	22-Jul-2021	24-Feb-2022	24-Feb-2022
pH	7.15	7.18	6.67	6.77
Dissolved Oxygen(mg/L)	6.9	6.8	6.3	6.4
BOD (3 days 27oc)(mg/L)	<2.0	<2.0	<2.0	2.4
Color (Hazen unit)	2	1	2	3
Total dissolved solids (mg/L)	100	104	164	126
TSS(mg/L)	68	76	62	26
Total Hardness(mg/L)	40	44	68	64
Copper(mg/L)	<0.03	<0.03	<0.04	<0.04
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1
Chlorides(mg/L)	7.94	5.96	16	16
Sulphate(mg/L)	31.32	33.24	13	10.29
Nitrate(mg/L)	6.64	6.85	1.18	<0.5
Fluoride(mg/L)	0.37	<0.30	0.44	0.31
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	<0.04
Chromium(as Cr6)(mg/L)	<0.01	<0.01	<0.05	<0.05
Oil & Grease	<4.0	<4.0	<4.0	<4.0
MPN (Index/100 ml)			11	9.3
Selenium(mg/L)			<0.005	<0.005

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WELL WATER QUALITY

cmpdi
A Mini Ratna Company

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TABLE NO 11 FOR WELL WATER QUALITY DATA

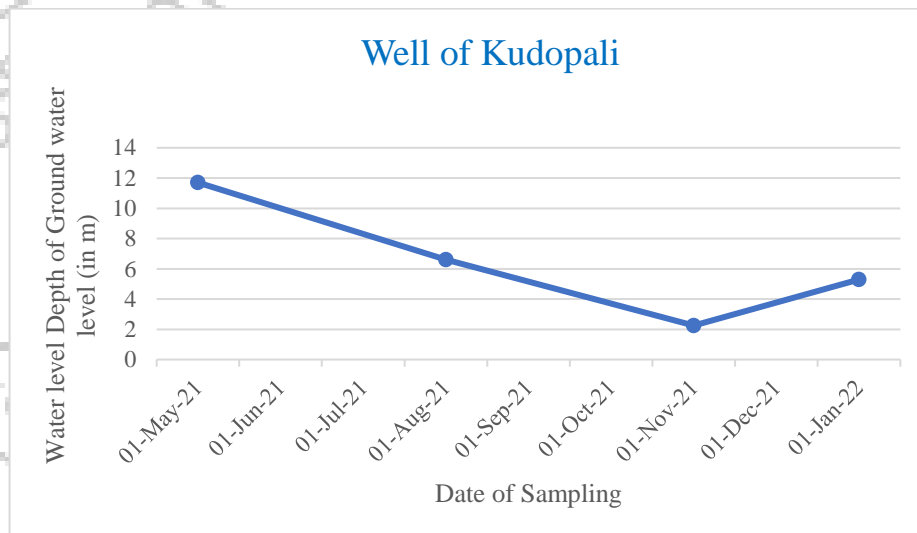
Table: 11.1

Area: Ib valley

Project: Samaleswari OCP

Monitoring Station: Well of Kudopali

Date of sampling	Water level (bgl in meters)
18-May-21	11.7
25-Aug-21	6.6
25-Nov-21	2.25
24-Jan-22	5.3



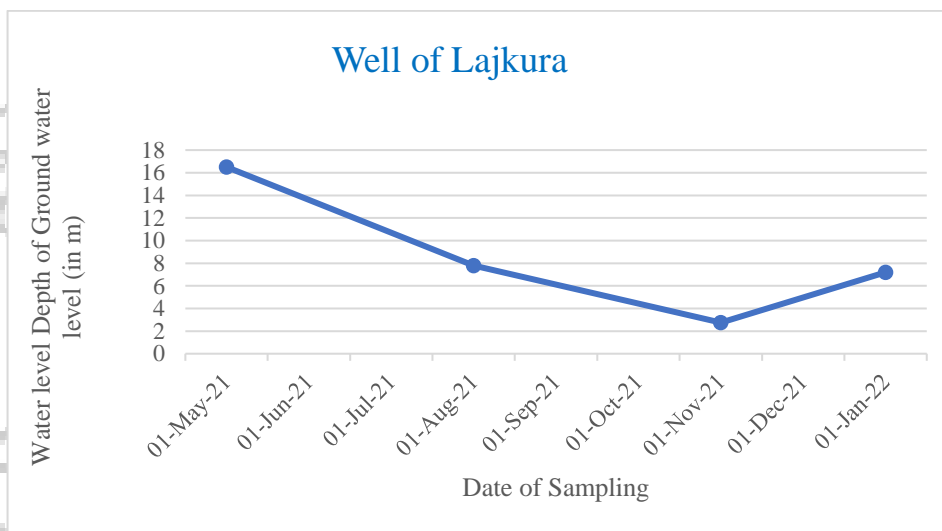
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Table: 11.2

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

Date of sampling	Water level (bgl in meters)
18-May-21	16.5
25-Aug-21	7.8
25-Nov-21	2.75
24-Jan-22	7.2



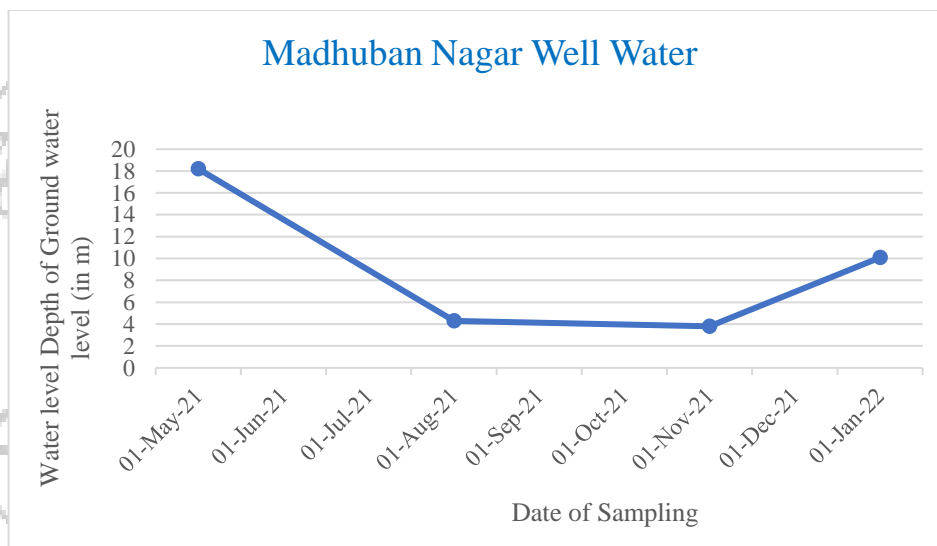
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Table: 11.3

Area: Ib valley**Project:** LajkuraOCP**Monitoring Station:** Madhuban Nagar Well Water

Date of sampling	Water level (bgl in meters)
18-May-21	18.2
25-Aug-21	4.3
25-Nov-21	3.80
24-Jan-22	10.1



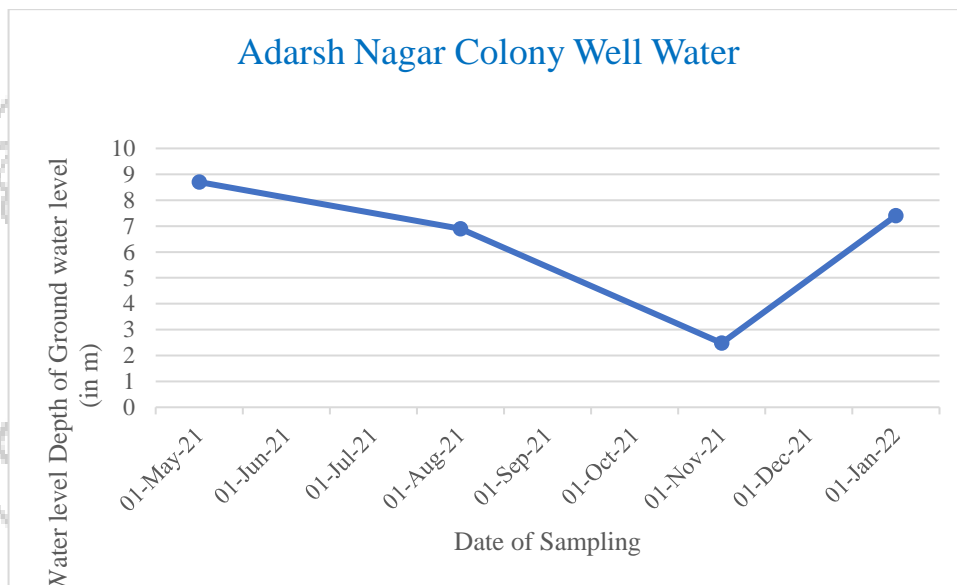
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Table: 11.4

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

Date of sampling	Water level (bgl in meters)
18-May-21	8.7
25-Aug-21	6.9
25-Nov-21	2.48
24-Jan-22	7.4



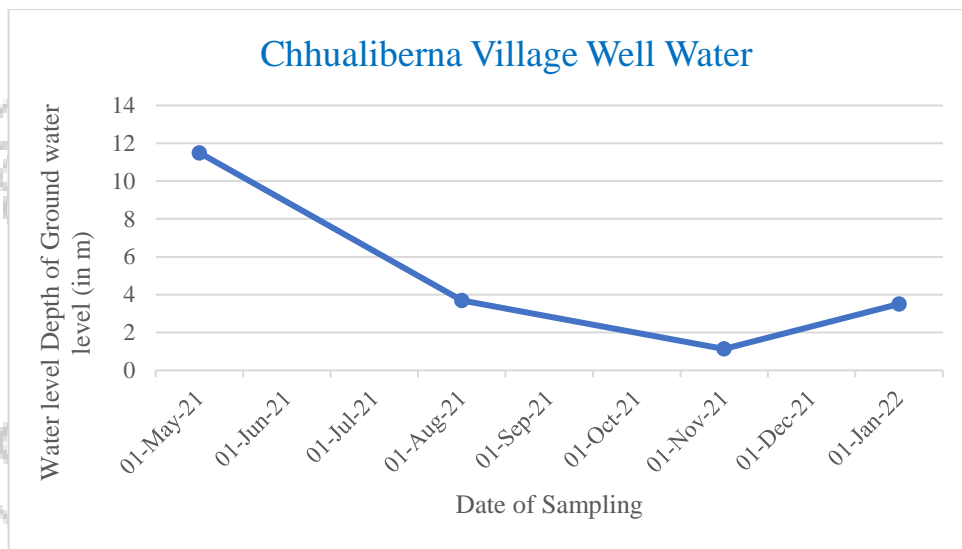
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Table: 11.5

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

Date of sampling	Water level (bgl in meters)
18-May-21	11.5
25-Aug-21	3.7
25-Nov-21	1.13
24-Jan-22	3.5



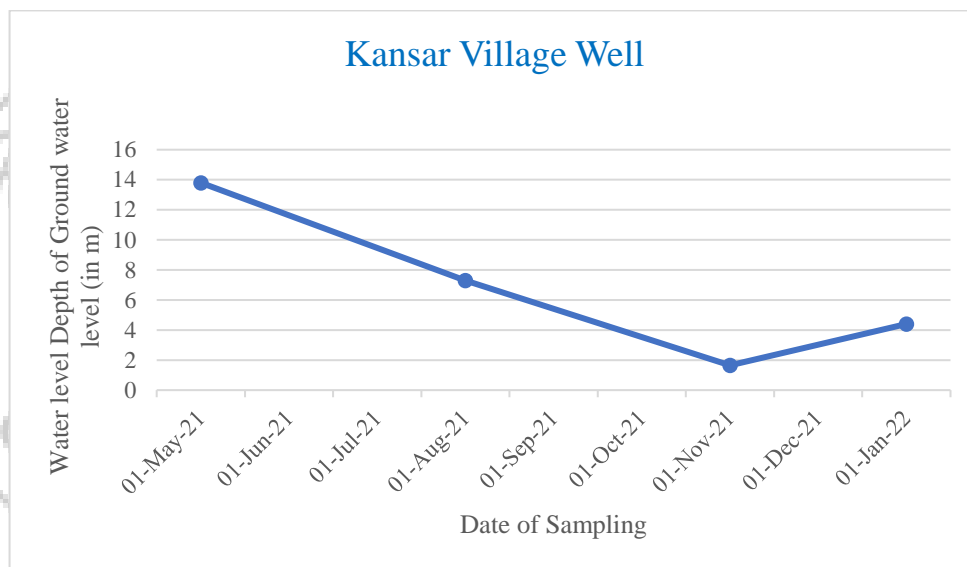
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Table: 11.6

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

Date of sampling	Water level (bgl in meters)
18-May-21	13.8
25-Aug-21	7.3
26-Nov-21	1.65
25-Jan-22	4.4



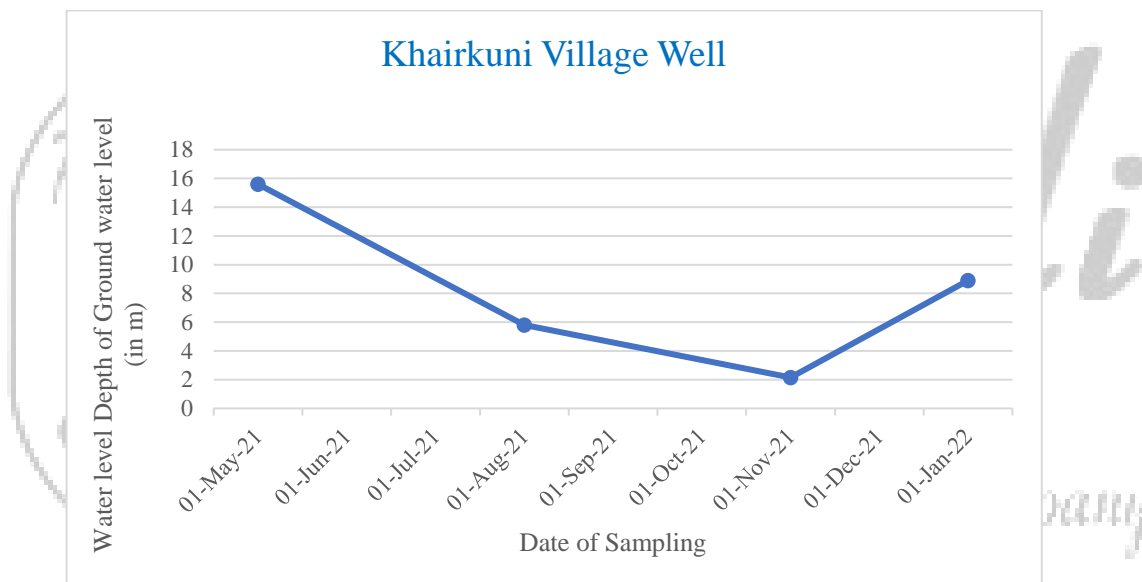
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Table: 11.7

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

Date of sampling	Water level (bgl in meters)
18-May-21	15.6
25-Aug-21	5.8
26-Nov-21	2.15
25-Jan-22	8.9



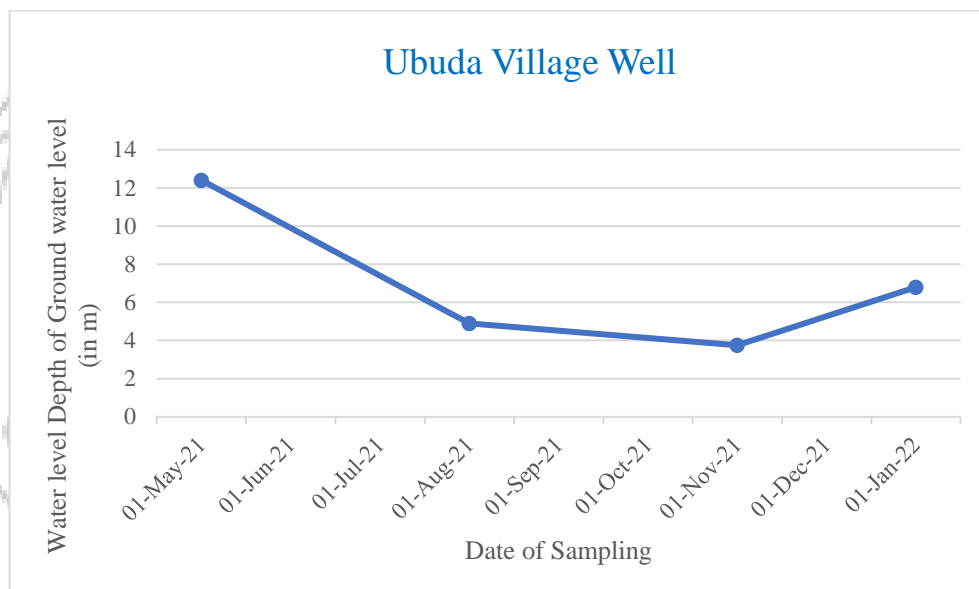
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Table: 11.8

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

Date of sampling	Water level (bgl in meters)
18-May-21	12.4
25-Aug-21	4.9
26-Nov-21	3.75
25-Jan-22	6.8



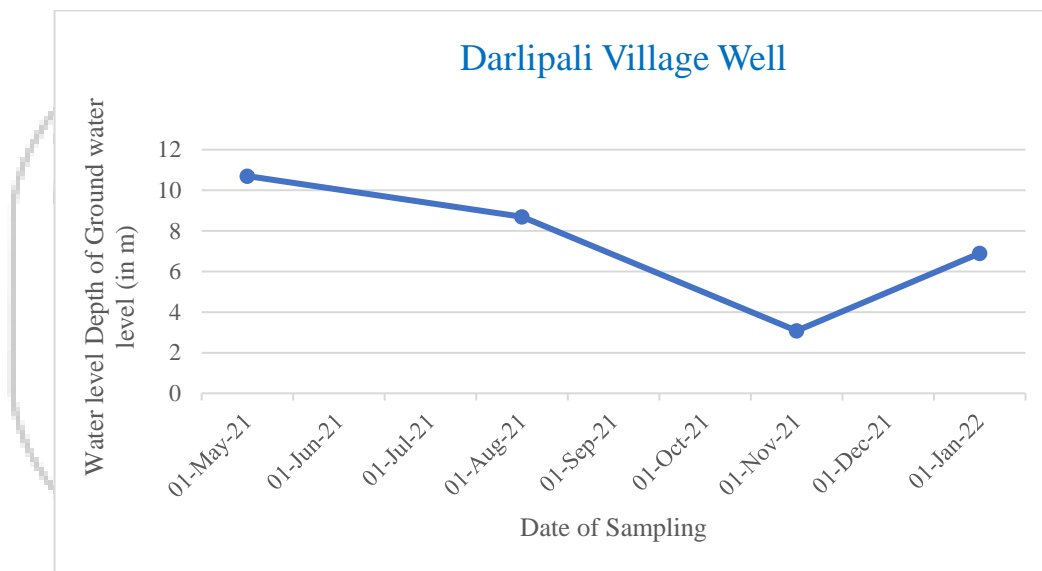
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Table: 11.9

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

Date of sampling	Water level (bgl in meters)
18-May-21	10.7
25-Aug-21	8.7
26-Nov-21	3.08
25-Jan-22	6.9



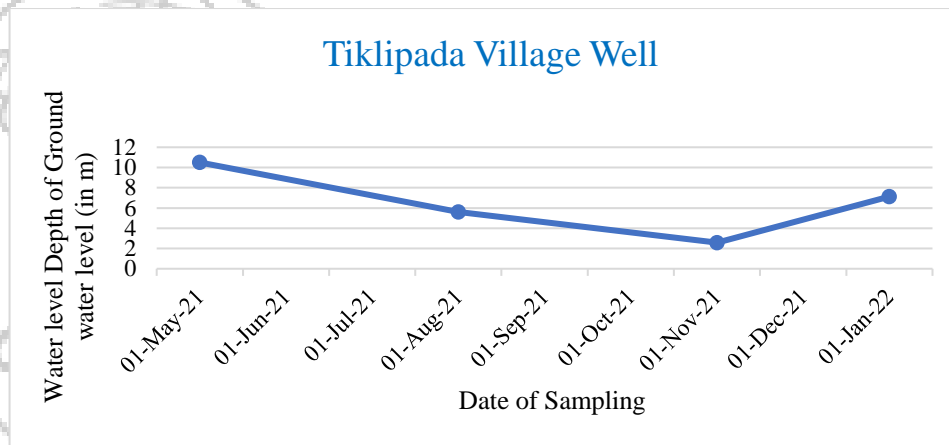
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Table: 11.10

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

Date of sampling	Water level (bgl in meters)
20-May-21	10.5
25-Aug-21	5.6
27-Nov-21	2.58
27-Jan-22	7.11



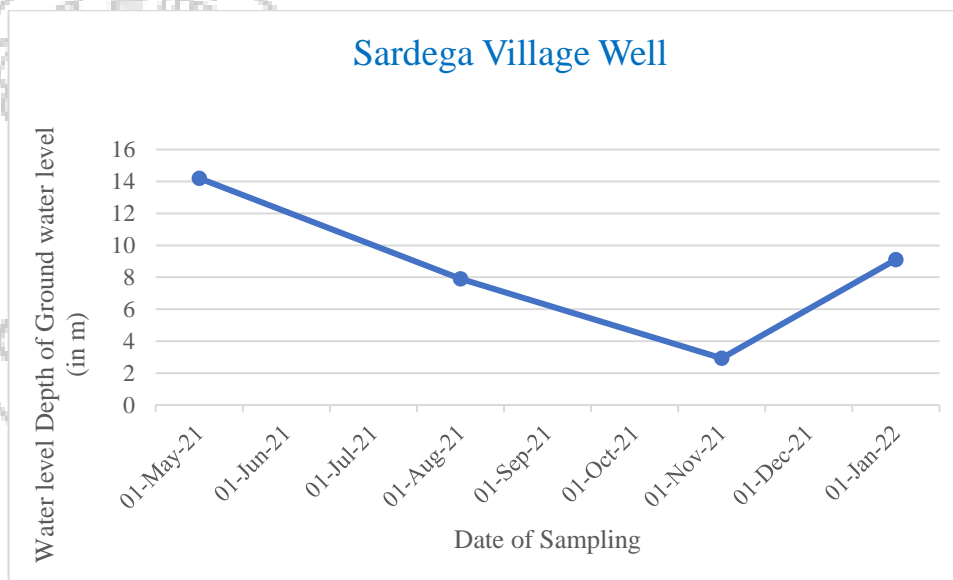
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Table: 11.11

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

Date of sampling	Water level (bgl in meters)
20-May-21	14.2
25-Aug-21	7.9
27-Nov-21	2.93
27-Jan-22	9.10



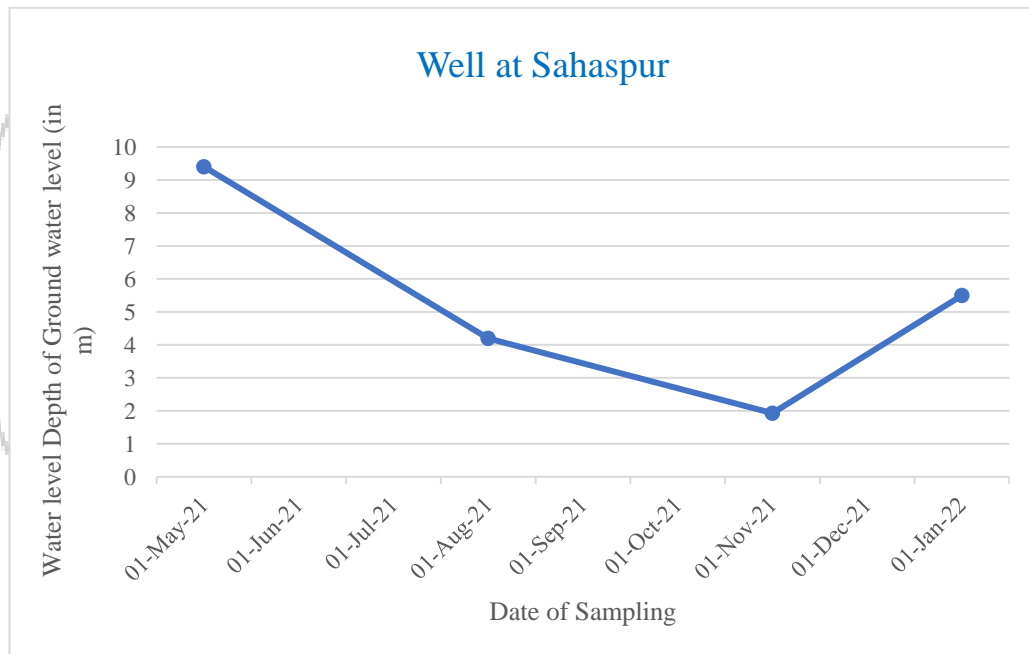
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Table: 11.12

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

Date of sampling	Water level (bgl in meters)
20-May-21	9.4
25-Aug-21	4.2
27-Nov-21	1.93
27-Jan-22	5.5



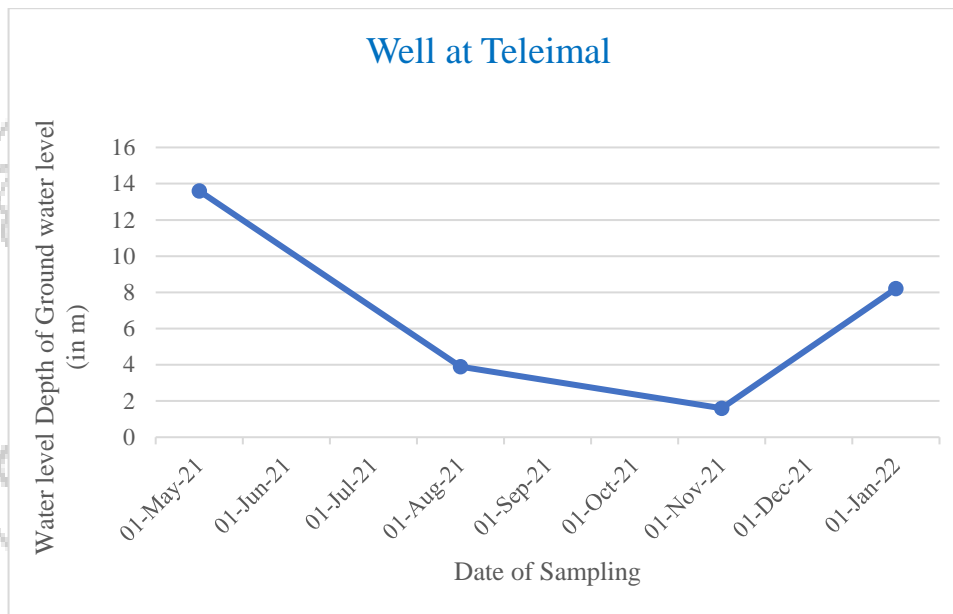
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Table: 11.13

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

Date of sampling	Water level (bgl in meters)
20-May-21	13.6
25-Aug-21	3.9
27-Nov-21	1.60
27-Jan-22	8.2



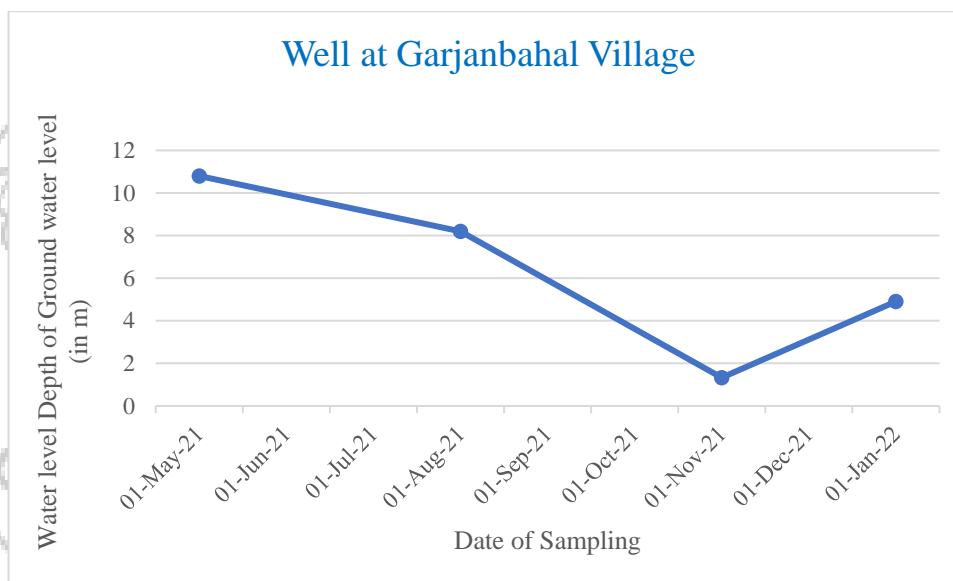
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Table: 11.14

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

Date of sampling	Water level (bgl in meters)
20-May-21	10.8
25-Aug-21	8.2
27-Nov-21	1.33
27-Jan-22	4.9



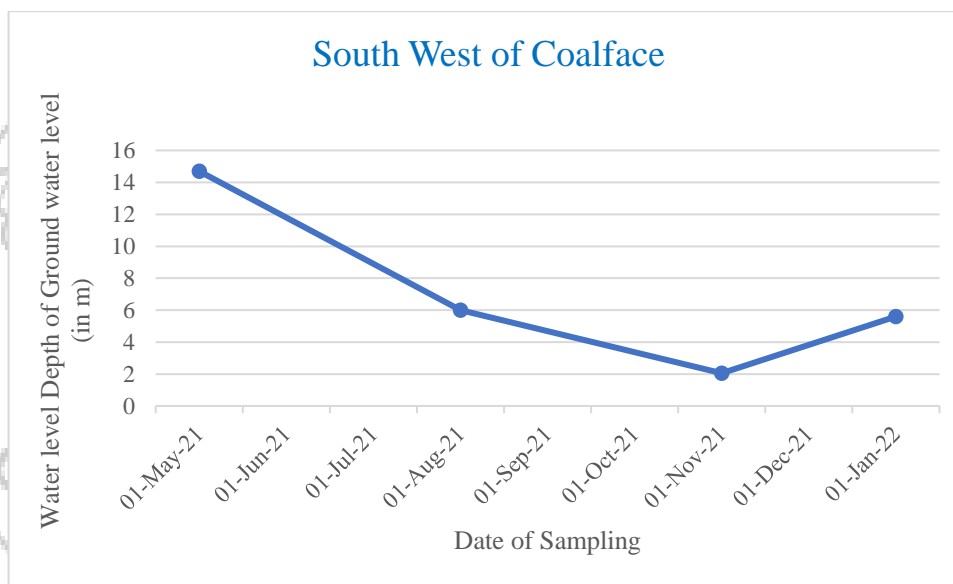
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Table: 11.15

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

Date of sampling	Water level (bgl in meters)
20-May-21	14.7
25-Aug-21	6.0
27-Nov-21	2.05
27-Jan-22	5.6



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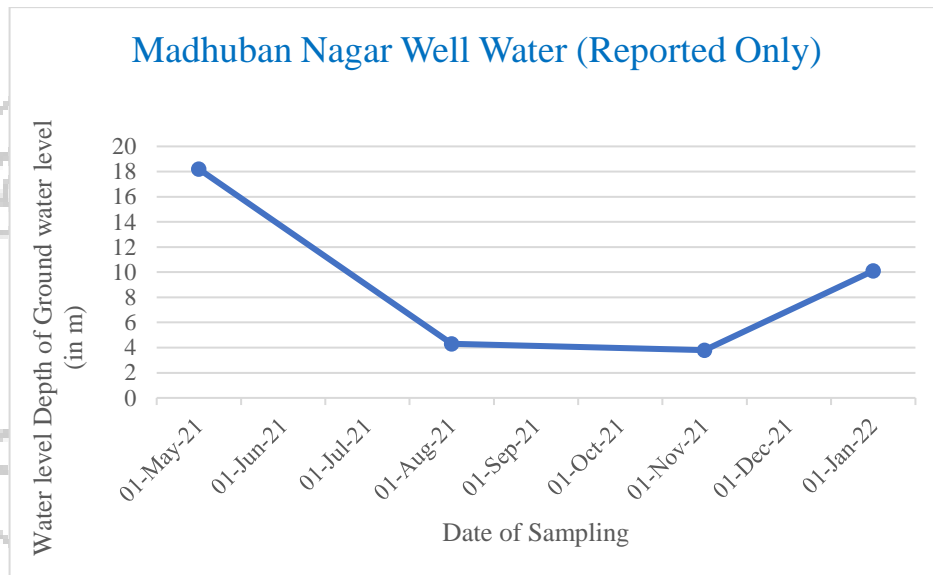
Table: 11.16

Area: Orient

Project: Orient Mine no. 2

Monitoring Station: Madhuban Nagar Well Water (Reported Only)

Date of sampling	Water level (bgl in meters)
18-May-21	18.2
25-Aug-21	4.3
25-Nov-21	3.80
24-Jan-22	10.1



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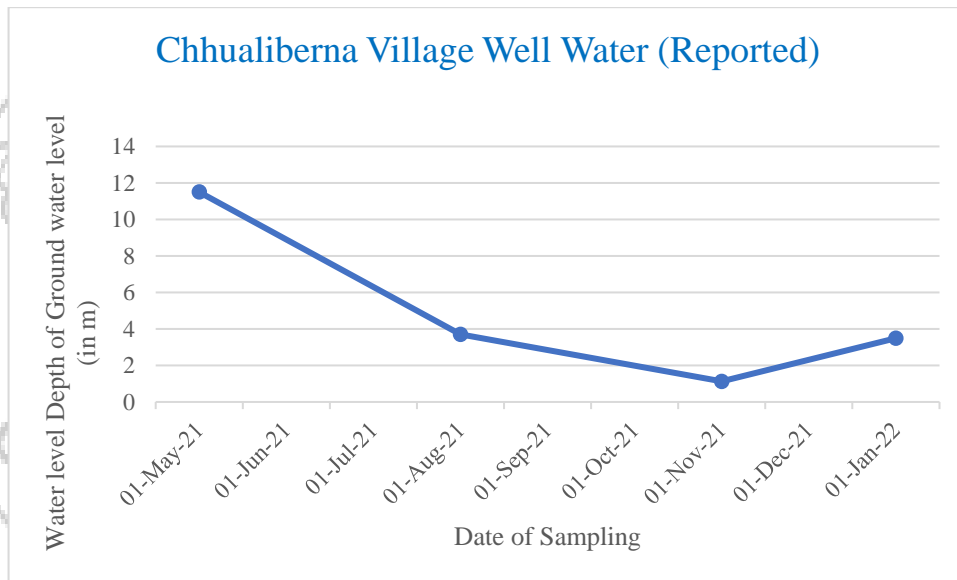
Table: 11.17

Area: Orient

Project: Orient Mine no. 2

Monitoring Station: Chhualibera Village Well Water (Reported)

Date of sampling	Water level (bgl in meters)
18-May-21	11.5
25-Aug-21	3.7
25-Nov-21	1.13
24-Jan-22	3.5



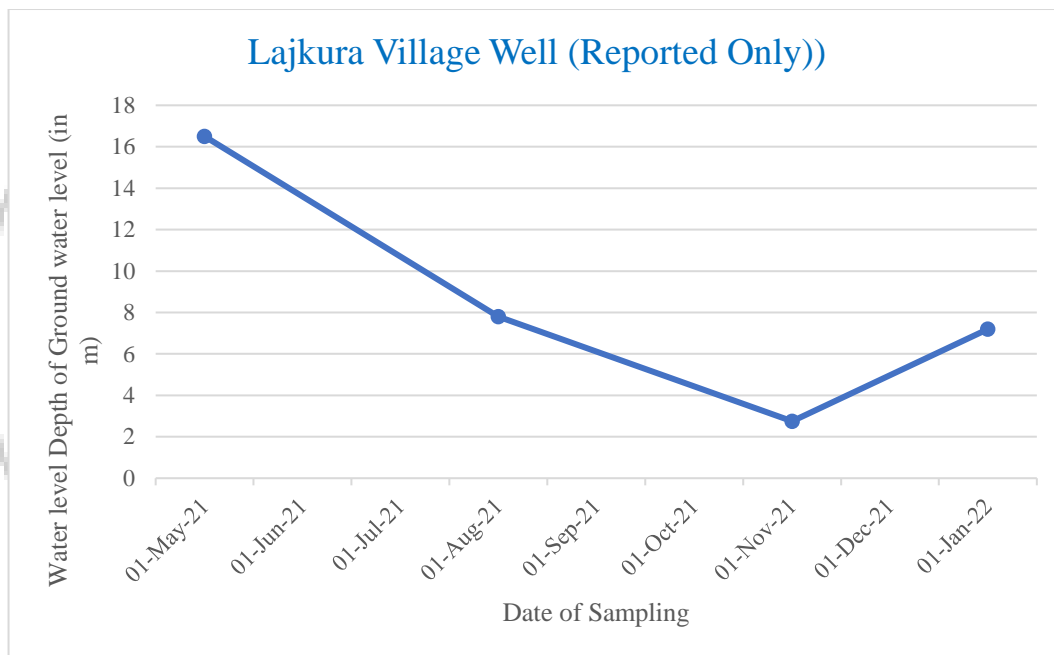
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Table: 11.18

Area: Orient**Project:** Orient Mine no. 3**Monitoring Station:** Lajkura Village Well (Reported Only))

Date of sampling	Water level (bgl in meters)
18-May-21	16.5
25-Aug-21	7.8
25-Nov-21	2.75
24-Jan-22	7.2



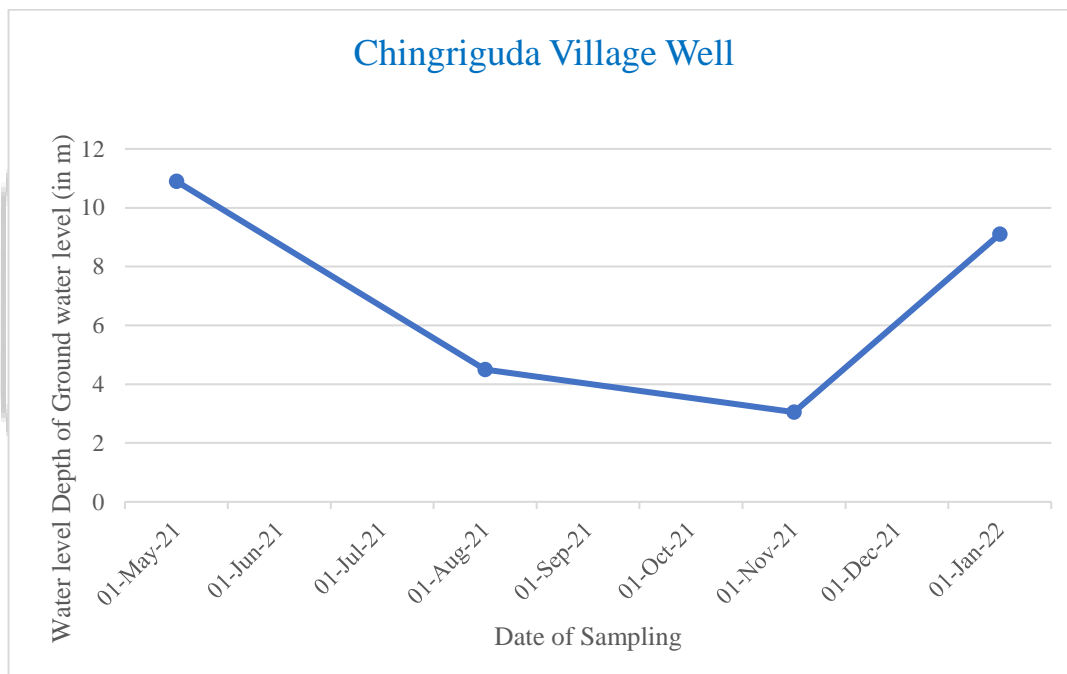
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Table 11.19

Area: Orient**Project:** HBI Mine**Monitoring Station:** Chingriguda Village Well

Date of sampling	Water level (bgl in meters)
18-May-21	10.9
25-Aug-21	4.5
25-Nov-21	3.05
24-Jan-22	9.1



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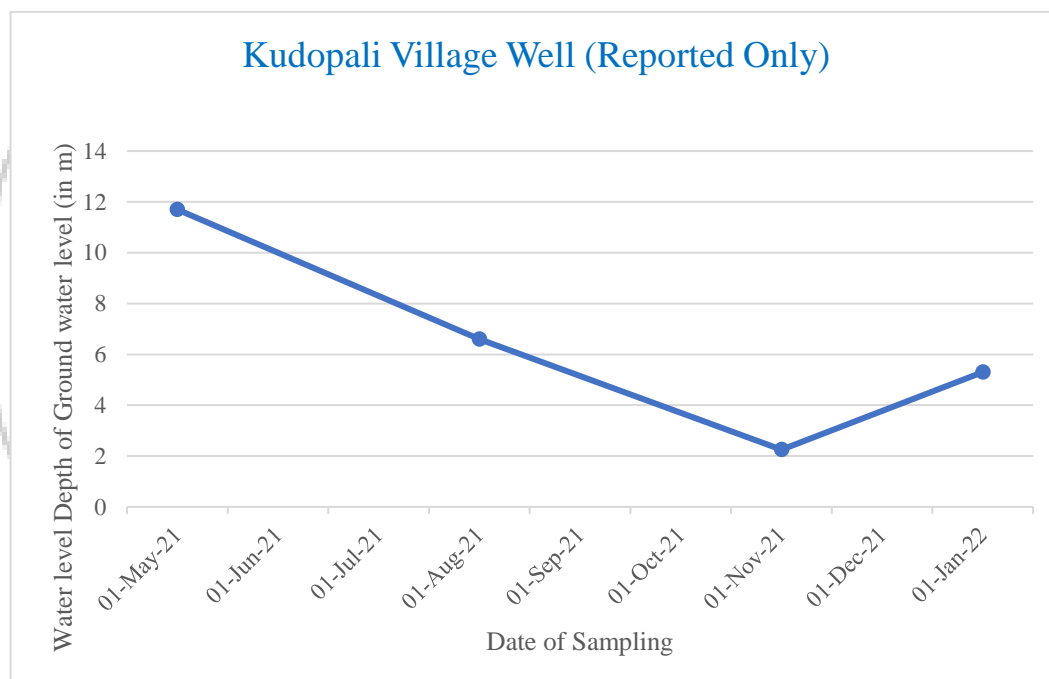
Table: 11.20

Area: Orient

Project: HBI

Monitoring Station: Kudopali Village Well (Reported Only)

Date of sampling	Water level (bgl in meters)
18-May-21	11.7
25-Aug-21	6.6
25-Nov-21	2.25
24-Jan-22	5.3



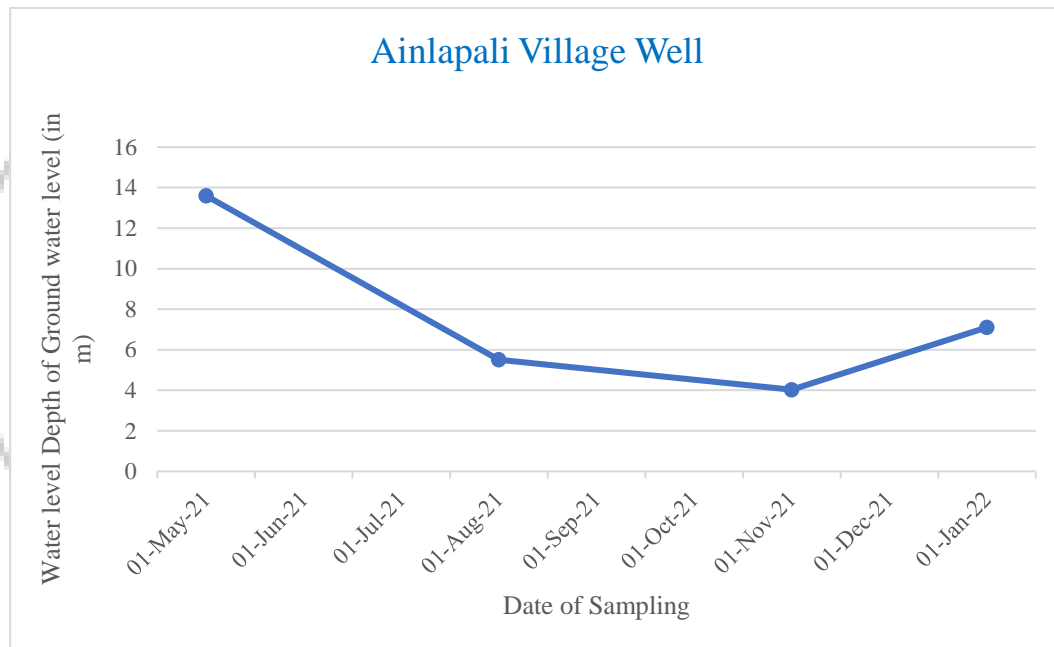
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Table: 11.21

Area: Orient**Project:** HBI**Monitoring Station:** Ainlapali Village Well

Date of sampling	Water level (bgl in meters)
18-May-21	13.6
25-Aug-21	5.5
25-Nov-21	4.03
24-Jan-22	7.11



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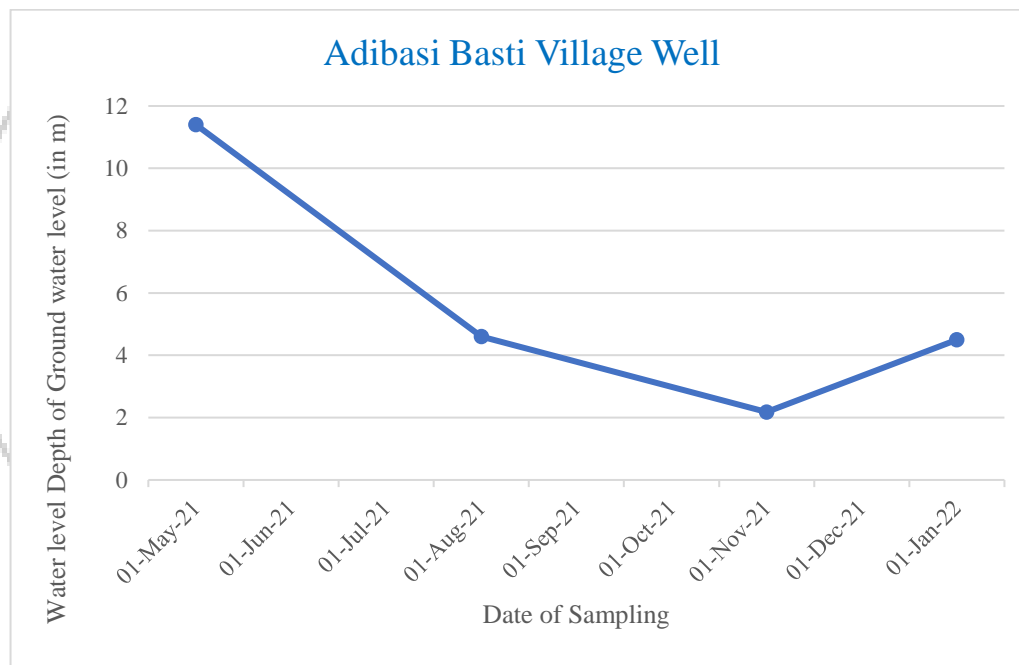
Table: 11.22

Area: Orient

Project: Orient Mine no.4

Monitoring Station: Adibasi Basti Village Well

Date of sampling	Water level (bgl in meters)
18-May-21	11.4
25-Aug-21	4.6
25-Nov-21	2.18
24-Jan-22	4.5



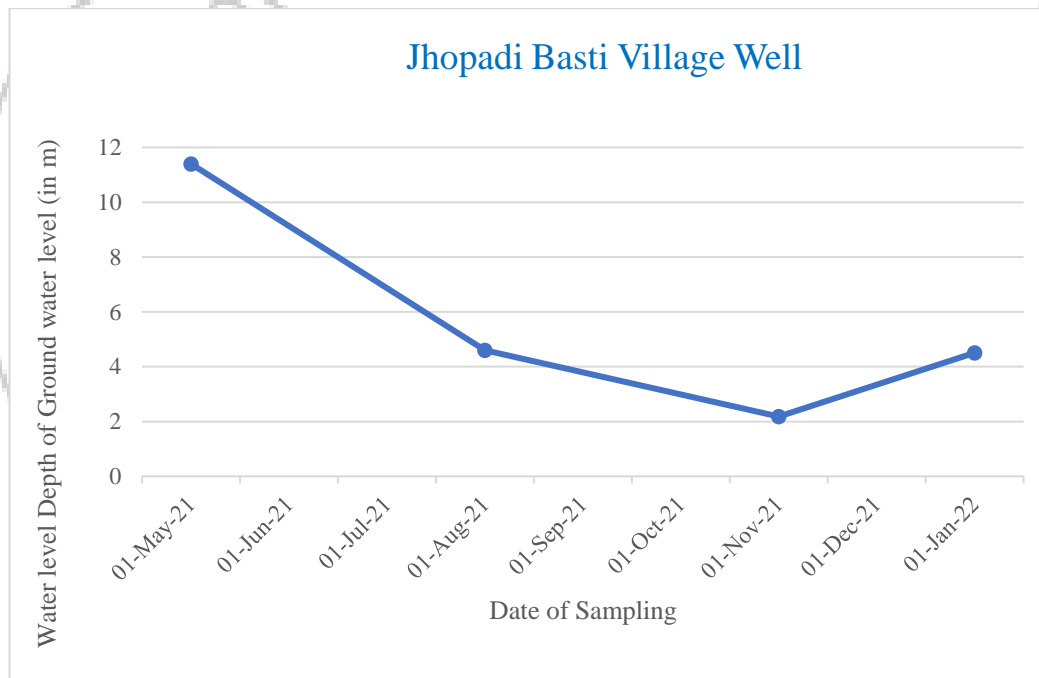
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JOB NO.750001

Table: 11.23

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

Date of sampling	Water level (bgl in meters)
18-May-21	11.4
25-Aug-21	4.6
25-Nov-21	2.18
24-Jan-22	4.5



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DRINKING WATER QUALITY

cmpdi
A Mini Ratna Company

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TABLE NO 12 FOR DRINKING WATER QUALITY DATA

Table:12.1

Area: Ib valley

Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standards (IS-10500):2012
	Well Water from Kudopali													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-22	Acceptable	Permissible
Colour(Hazen)	1	1	1	1	1	2	1	1	<1.0	<2.0	<1.0	3	5	15
Turbidity(NTU)	2	2	1	2	3	1	1	2	1	1	1	1	1	5
pH	7.34	7.43	6.97	6.82	7.86	7.93	7.53	7.63	7.75	7.38	7.47	7.93	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	104	112	92	108	124	132	64	100	104	117.7	119.3	136.3	200	600
Total Hardness (Ca CO3)(mg/L)	104	100	84	88	100	96	80	44	80	108	112	112	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	24	28	20	23.83	23.66	26	27	19	13	25	35	25	250	1000
Total Dissolve Solid(mg/L)	202	220	188	186	218	234	132	204	266	214	228	236	500	2000
Calcium(mg/L)	33.67	32.06	22.44	19.24	22.44	24.05	20.84	12.8	16	19.2	20.8	28.8	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	9.46	16.52	28.53	12.94	<1.0	1.13	20.81	2.57	6.09	12.96	13.14	13.29	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	25.14	<0.5	<0.5	<0.5	0.88	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.35	0.33	0.33	<0.30	0.38	<0.30	0.42	0.48	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)	0.06	<0.04	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	<0.04	0.11	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	9.2	9	9	6	4	8.3	2	<1.8	<1.8	6	6.0	<1.8	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.2

Area: Ib valley

Project: Samaleswari OCP

Project / OCP	Samaleswari OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap Water From Samaleswari OCP Colony													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	2	2	1	1	2	1	<1.0	<2.0	<1.0	5	5	15
Turbidity(NTU)	1	2	3	4	4	2	2	2	2	2	1	1	1	5
pH	7.04	7.12	7.04	6.91	8.07	8.15	7.59	7.70	7.31	7.43	7.54	7.90	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	108	108	108	104	132	140	104	136	100	117.7	115	136.3	200	600
Total Hardness (Ca CO ₃)(mg/L)	92	96	100	84	96	92	112	100	84	52	60	112	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	28	32	26	19.86	23.66	20	16	19	27	23	26	25	250	1000
Total Dissolve Solid(mg/L)	204	218	212	190	214	228	280	200	258	212	234	230	500	2000
Calcium(mg/L)	30.46	32.06	24.05	22.44	20.84	22.44	30.46	22.4	17.6	16	17.6	27.2	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	5.97	10.26	13.85	15.00	3.28	3.09	29.37	1.43	6.09	13.25	13.57	13	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	12.23	<0.5	<0.5	<0.5	<0.5	0.88	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.42	0.40	0.37	0.32	<0.30	<0.30	0.42	0.41	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	<0.04	0.15	0.06	0.04	<0.04	<0.04	<0.04	0.15	0.05	0.15	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	4	4	4	5.5	5.6	2	4.5	<1.8	<1.8	5.5	1.8	2	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.3
Area: Ib valley
Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Water from IWSS, IB Valley Area													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	3	1	1	1	2	2	2	2	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)	2	3	1	1	2	3	1	1	2	1	1	2	1	5
pH	7.02	7.10	7.18	7.28	8.17	8.26	7.29	7.68	7.32	7.69	7.59	7.51	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	108	112	84	116	264	260	48	136	100	122.1	127.8	132.1	200	600
Total Hardness (Ca CO ₃)(mg/L)	108	100	84	96	216	208	60	100	80	104	108	128	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	26	30	24	21.84	23.66	28	25	19	15	25	28	41	250	1000
Total Dissolve Solid(mg/L)	206	224	186	202	364	384	86	202	270	218	230	254	500	2000
Calcium(mg/L)	22.44	20.84	19.24	32.06	41.68	41.68	14.43	22.4	16	22.4	208	41.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	6.53	12.47	14.83	16.32	2.00	2.25	6.79	1.43	6.09	12.52	12.71	13.29	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	0.88	<0.5	<0.5	<0.5	<0.5	5.20	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.49	0.46	0.46	<0.30	<0.30	<0.30	0.49	0.54	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)	0.10	<0.04	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	0.04	0.19	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.22	<0.1	<0.1	<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)	2	1.8	2	<1.8	<1.5	2	13	11	6.1	<1.8	2.0	<1.8	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.4
Area: Ib valley
Project: Samaleswari OCP

Project / OCP	Samaleswari OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Well Water From Lajkura													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	2	3	1	2	3	2	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	3	2	3	3	3	2	2	1	1	1	1	1	1	5
pH	7.05	7.15	7.14	7.02	8.31	8.24	7.52	7.71	7.31	7.58	7.43	7.57	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	108	112	80	108	440	432	84	140	108	113.4	123.5	132.1	200	600
Total Hardness (Ca CO3)(mg/L)	104	96	80	84	364	356	92	108	84	84	76	112	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	26	28	24	25.81	86.75	93	20	19	13	23	30	25	250	1000
Total Dissolve Solid(mg/L)	208	214	190	188	664	686	168	206	244	210	224	232	500	2000
Calcium(mg/L)	22.44	20.84	22.44	24.05	80.16	76.95	19.24	17.6	19.2	19.2	22.4	32	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	8.74	14.68	17.90	16.62	4.28	4.50	22.88	1.85	5.94	12.96	13.14	12.57	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	3.75	3.52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.38	0.54	0.59	<0.30	0.45	<0.30	0.48	0.51	0.47	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	0.15	<0.04	0.06	0.06	<0.04	<0.04	<0.04	<0.04	0.10	0.19	0.11	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	2	2	2	<1.8	<1.8	4	7.8	11	11	<1.8	<1.8	3.7	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.5

Area: Ib valley

Project: Lajkura OCP

Project / OCP	Lajkura OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Madhuban Nagar Well Water													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	1	1	3	2	1	1	<1.0	<2.0	<1.0	1	5	15
Turbidity(NTU)	1	1	1	2	3	2	1	4	3	1	2	1	1	5
pH	6.89	6.96	6.63	6.58	5.88	6.30	7.64	7.03	6.78	6.71	6.87	6.83	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	52	60	48	88	8	20	124	20	4	13.08	21.3	12	200	600
Total Hardness (Ca CO ₃)(mg/L)	120	116	88	28	44	48	104	40	32	36	48	32	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	60	52	36	27.8	37.46	40	27	47	46	27	43	37	250	1000
Total Dissolve Solid(mg/L)	192	210	174	106	126	134	196	154	143	110	124	128	500	2000
Calcium(mg/L)	17.64	16.03	24.05	11.22	8.02	8.02	22.44	8	11	8	9.6	9.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	7.64	13.21	13.40	39.56	16.57	15.77	5.46	16.56	30.58	22.68	23.57	17.86	200	400
Nitrate(mg/L)	4.47	5.62	16.68	21.74	18.58	11.85	<0.5	9.9	7.23	13.7	12.85	8.35	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.34	<0.30	<0.30	<0.30	<0.30	<0.30	0.03	<0.3	0.31	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	<0.04	<0.04	0.07	0.07	<0.04	<0.04	<0.04	0.10	0.11	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	6	6	4	4	3.7	<1.8	<1.8	<1.8	<1.8	6.0	10.0	5.1	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.6

Area: Ib valley

Project: Lajkura OCP

Project / OCP	Lajkura OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Adarsh Nagar Colony Well Water													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	1	2	2	1	2	2	2	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	1	3	2	2	2	1	2	3	1	2	1	1	1	5
pH	7.03	7.15	6.77	6.81	7.96	8.06	7.56	7.61	6.91	6.97	7.09	7.40	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	72	80	120	112	116	124	68	112	100	100.3	106.5	102.2	200	600
Total Hardness (Ca CO ₃)(mg/L)	96	104	124	96	132	128	76	104	100	108	116	108	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	20	24	42	41.7	45.35	48	90	37	38	37	37	39	250	1000
Total Dissolve Solid(mg/L)	162	182	322	274	322	344	120	276	286	276	294	280	500	2000
Calcium(mg/L)	19.24	20.84	40.08	32.06	32.06	32.06	17.64	27.2	27.2	28.8	32	35.2	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	<0.04	0.05	1.5
Manganese(mg/L)	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	16.25	20.35	29.23	30.74	22.14	21.41	12.25	8.85	32.46	27.1	28	27.86	200	400
Nitrate(mg/L)	1.11	3.45	15.56	13.47	20.08	19.93	<0.5	10.89	11.5	16.95	15.16	16.73	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.36	<0.30	0.43	0.49	<0.30	<0.30	<0.30	0.32	0.36	0.68	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	0.38	0.09	<0.04	<0.04	<0.04	<0.04	0.09	0.18	0.17	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	2	2	2	1.8	1.8	2	4.0	<1.8	<1.8	2.0	7.8	3.6	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.7

Area: Ib valley

Project: Lajkura OCP

Project / OCP	Lajkura OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Chhualibera Village Well Water													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	1	2	1	1	1	1	3	1	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)	2	4	2	3	2	3	1	1	2	1	1	1	1	5
pH	6.99	7.06	6.52	6.71	7.85	7.98	7.50	7.42	7.31	6.75	6.86	8.12	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	44	52	44	96	68	80	84	60	48	43.6	46.9	91.7	200	600
Total Hardness (Ca CO ₃)(mg/L)	68	76	92	64	108	104	88	52	56	48	56	96	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	26	30	26	19.86	33.52	36	39	6	8	8	12	39	250	1000
Total Dissolve Solid(mg/L)	138	154	158	134	210	224	166	102	196	102	120	394	500	2000
Calcium(mg/L)	22.44	25.62	30.46	19.24	33.67	33.67	20.84	12.8	16.0	12.8	11.2	24	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	25.28	29.46	15.66	17.50	17.86	18.03	20.52	10.00	12.75	13.84	14.57	22.86	200	400
Nitrate(mg/L)	11.02	13.52	6.48	1.38	9.93	9.79	<0.5	<0.5	<0.5	1.95	2.14	9.01	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30	0.34	0.36	<0.30	<0.30	<0.30	<0.3	<0.3	0.70	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)	<0.04	<0.04	0.35	<0.04	0.07	<0.04	<0.04	<0.04	0.09	0.13	0.26	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	<1.8	0	<1.8	<1.8	<1.8	<1.8	<1.8	5.5	4	<1.8	6.1	2	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.8

Area: Ib valley

Project: Lajkura OCP

Project / OCP	Lajkura OCP												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	VIP Guest House Tap Water													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	9-Mar-2022	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	1	2	2	2	<1.0	<2.0	<1.0	3	5	15
Turbidity(NTU)	2	2	1	2	1	2	3	2	1	2	1	1	1	5
pH	7.21	7.35	7.12	7.46	6.92	7.06	7.72	7.56	7.39	7.45	7.53	7.80	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	84	80	72	84	96	108	160	88	80	78.5	85.2	85.2	200	600
Total Hardness (Ca CO ₃)(mg/L)	104	108	80	80	104	108	416	88	100	92	88	104	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	24	28	18	15.89	13.8	16	47	16	17	15	16	65	250	1000
Total Dissolve Solid(mg/L)	196	208	178	168	182	198	766	186	289	172	194	186	500	2000
Calcium(mg/L)	25.65	22.44	24.05	24.05	20.84	22.44	109.02	19.2	20.8	20.8	22.4	33.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	26.53	31.58	30.35	28.38	15.14	15.49	71.59	10.28	30.58	27.84	28.28	27.14	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	22.81	<0.5	<0.5	0.92	1.31	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.67	<0.30	<0.30	0.35	<0.30	<0.30	0.68	0.75	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)	0.10	<0.04	0.15	<0.04	0.06	<0.04	<0.04	<0.04	0.07	0.08	0.13	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	4	4	4	4	4	4	2	6.1	3.6	4	3.7	13	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.9

Area: Lakhanpur OCP

Project: Lakhanpur OCP

Project / OCP	Lakhanpur OCP												Indian Drinking Standards (IS-10500):2012	
	LKP Canteen Tap Water													
Monitoring Station	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Date of Sampling														
Colour(Hazen)	1	1	1	2	1	1	1	1	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	1	2	2	1	2	3	2	1	2	1	1	1	1	5
pH	7.60	7.48	7.75	7.58	7.74	7.90	7.81	7.55	7.58	7.53	7.61	7.88	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	64	72	60	88	172	184	168	80	76	82.8	89.5	89.5	200	600
Total Hardness (Ca CO ₃)(mg/L)	76	80	96	84	144	136	428	76	96	88	80	96	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	16	20	30	17.87	13.8	18	35	8	8	10	10	8	250	1000
Total Dissolve Solid(mg/L)	140	154	194	174	244	262	764	134	336	142	166	152	500	2000
Calcium(mg/L)	22.44	20.84	24.05	25.65	33.67	32.06	112.22	19.2	19.2	24	19.2	27.2	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	15.56	12.74	26.85	25.59	1.00	1.27	74.69	12.14	104.49	12.37	13.71	11.29	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	23.08	<0.5	<0.5	0.61	0.78	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.68	0.37	0.44	0.41	<0.30	<0.30	0.49	0.56	0.34	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)	<0.04	<0.04	0.06	<0.04	0.15	<0.04	<0.04	<0.04	0.05	0.07	<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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	<1.8	0	<1.8	<1.8	<1.8	<1.8	1.8	10	11	<1.8	3.6	4.5	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.10
Area: Lakhanpur
Project: Belpahar OCP

Project / OCP	Belpahar OCP													Indian Drinking Standards (IS-10500):2012
	IWSS Outlet													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	1	1	1	1	<1.0	<2.0	<1.0	5	5	15
Turbidity(NTU)	1	3	2	2	1	2	1	2	1	1	3	1	1	5
pH	7.58	7.41	7.69	7.48	7.61	7.79	7.94	7.53	7.54	7.62	7.74	7.82	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	64	68	68	84	132	140	132	80	72	82.8	85.2	89.5	200	600
Total Hardness (Ca CO ₃)(mg/L)	76	84	88	84	104	104	108	80	80	84	84	40	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	18	22	26	15.89	23.66	28	16	6	6	8	10	8	250	1000
Total Dissolve Solid(mg/L)	138	148	184	158	216	230	230	130	198	138	160	148	500	2000
Calcium(mg/L)	19.24	20.84	19.24	24.05	20.84	22.44	20.84	19.2	22.4	14.4	16	8	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	15.69	21.46	27.41	22.06	<1.0	<1.0	10.77	10.85	15.51	11.34	12.71	11.71	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	0.56	0.91	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.63	0.34	0.38	<0.30	<0.30	<0.30	0.52	0.59	0.36	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.23	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	14	14	14	14	11	14	11	<1.8	1.8	14	4.5	3.6	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.11

Area: Mahalaxmi

Project: Basundhara OCP

Project / OCP	Basundhara OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Water Treatment Plant Clear Water Reservoir													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour(Hazen)	1	1	2	2	2	2	2	1	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)	1	2	1	1	3	3	2	1	1	3	1	1	1	5
pH	7.05	7.23	6.98	6.93	6.85	6.98	7.53	6.82	7.61	7.48	7.36	7.78	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	20	32	16	24	24	32	32	28	44	48	51.1	93.7	200	600
Total Hardness (Ca CO ₃)(mg/L)	168	164	184	176	164	156	96	156	96	172	164	96	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	14	24	12	9.93	5.91	8	18	8	6	6	8	8	250	1000
Total Dissolve Solid(mg/L)	302	324	302	276	284	306	154	258	278	282	308	154	500	2000
Calcium(mg/L)	40.08	41.68	43.29	38.48	33.67	32.06	20.84	20.80	22.40	49.6	44.8	25.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	14.92	147.52	91.61	138.68	74.43	72.67	47.67	11.138	107.39	158.35	165.72	13.29	200	400
Nitrate(mg/L)	3.26	4.63	1.10	2.49	1.82	1.81	<0.5	4.55	4.23	3.34	3.55	<0.5	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.38	0.90	0.48	0.44	<0.30	0.38	<0.30	0.71	0.68	0.33	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	0.09	0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	6	8.2	6	6	6	6	4	<1.8	<1.8	6	6.8	<1.8	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.12

Area: Basundhara OCP

Project: Garjanbahal OCP

Project / OCP	Garjanbahal OCP													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Basundhara Colony Tap Water (Reported)													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour(Hazen)				2	2	2	2	1	<1.0	<2.0	<1.0	4	5	15
Turbidity(NTU)				1	3	3	2	1	1	3	1	1	1	5
pH				6.93	6.85	6.98	7.53	6.82	7.61	7.48	7.36	7.78	6.5-8.5	No relaxation
Total Alkalinity(mg/L)				24	24	32	32	28	44	48	51.1	93.7	200	600
Total Hardness (Ca CO3)(mg/L)				176	164	156	96	156	96	172	164	96	200	600
Iron(mg/L)				<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)				9.93	5.91	8	18	8	6	6	8	8	250	1000
Total Dissolve Solid(mg/L)				276	284	306	154	258	278	282	308	154	500	2000
Calcium(mg/L)				38.48	33.67	32.06	20.84	20.80	22.40	49.6	44.8	25.6	75	200
Copper(mg/L)				<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.04	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	0.1	0.3
Sulphate(mg/L)				138.68	74.43	72.67	47.67	11.138	107.39	158.35	165.72	13.29	200	400
Nitrate(mg/L)				2.49	1.82	1.81	<0.5	4.55	4.23	3.34	3.55	<0.5	45	No relaxation
Fluoride(mg/L)				0.90	0.48	0.44	<0.30	0.38	<0.30	0.71	0.68	0.33	1	1.5
Arsenic(mg/L)				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)				0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	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	0.05	No relaxation
Boron(mg/L)				<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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	0.003	No relaxation
MPN (Index/100 ml)				6	6	6	4	<1.8	<1.8	6	6.8	<1.8	-	-
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	1.0
Phenolics(mg/L)								<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	0.01	No relaxation

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JOB NO.750001

Table: 12.13

Area: Orient

Project: Orient Mine No. 1 & 2

Project / OCP	Orient Mine No. 1 & 2													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Tap Water at Budhijaam Colony													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour(Hazen)	2	2	1	2	1	1	2	2	<1.0	<2.0	<1.0	1	5	15
Turbidity(NTU)	2	4	2	2	2	2	2	2	2	2	1	1	1	5
pH	7.35	7.48	7.21	6.81	7.47	7.63	7.40	7.62	7.70	7.36	7.44	7.68	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	84	92	72	76	136	148	40	96	80	82.8	89.5	89.5	200	600
Total Hardness (Ca CO ₃)(mg/L)	100	104	96	84	104	96	136	100	76	88	92	88	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	24	22	16	17.87	25.63	30	27	14	17	15	18	18	250	1000
Total Dissolve Solid(mg/L)	194	214	180	166	232	256	222	188	233	174	196	192	500	2000
Calcium(mg/L)	24.05	25.65	25.65	22.44	22.44	24.05	27.25	19.2	20.8	17.6	20.8	17.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	24.31	28.51	26.01	28.38	7.28	7.60	85.31	100	30.39	26.22	27.71	25.43	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	5.31	<0.5	<0.5	0.89	1.15	0.51	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.79	0.42	0.48	<0.30	0.33	<0.30	0.59	0.53	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)	<0.20	<0.04	0.25	0.07	<0.04	<0.04	<0.04	<0.04	0.06	0.18	0.19	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	6	3.7	4	4	6.1	4	2	<1.8	<1.8	4	2.0	6.8	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.14

Area: Orient

Project: Orient Mine No. 1 & 2

Project / OCP	Orient Mine No. 1 & 2												Indian Drinking Standards (IS-10500):2012	
	Mine no 1 & 2 Filter Plant													
Monitoring Station	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Date of Sampling														
Colour(Hazen)	2	2	2	3	2	2	2	3	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	1	3	2	3	1	1	1	3	3	1	1	1	1	5
pH	7.21	7.35	7.89	7.08	7.35	7.44	7.78	7.78	7.41	7.65	7.53	7.78	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	108	116	100	108	128	140	128	132	84	126.4	132.1	132.1	200	600
Total Hardness (Ca CO ₃)(mg/L)	100	108	100	88	104	96	100	92	172	100	108	92	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	34	38	30	27.8	29.57	32	8	29	23	25	28	29	250	1000
Total Dissolve Solid(mg/L)	218	232	214	194	228	244	196	214	340	220	244	228	500	2000
Calcium(mg/L)	19.24	17.65	16.03	16.03	17.64	17.63	19.24	16	19	17.6	19.2	19.2	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	6.11	11.47	9.37	13.38	2.14	2.53	5.61	92	20	7.51	9.29	4.14	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	1.36	1.58	1.29	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.80	0.40	0.45	<0.30	0.42	<0.30	0.57	0.63	0.47	1	1.5
Arsenic(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Lead(mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.35	0.52	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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	2	2	2	2	1.8	2	2	<1.8	<1.8	2	<1.8	4	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.15

Area: Orient

Project: Orient Mine No. 3

Project / OCP	Orient Mine No. 3													Indian Drinking Standards (IS-10500):2012
Monitoring Station	Mine no 3 Filter Plant													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour(Hazen)	2	1	2	1	1	1	1	1	<1.0	<2.0	<1.0	2	5	15
Turbidity(NTU)	2	3	3	2	4	1	3	2	2	1	1	1	1	5
pH	6.91	6.99	6.69	6.58	7.52	7.33	7.51	7.46	7.55	7.56	7.67	7.57	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	60	72	60	72	76	84	40	76	72	69.8	72.4	76.7	200	600
Total Hardness (Ca CO ₃)(mg/L)	108	116	92	88	92	88	176	76	72	92	100	92	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	24	26	18	19.86	9.86	12	29	16	15	15	18	16	250	1000
Total Dissolve Solid(mg/L)	184	202	182	176	154	168	286	180	222	178	204	186	500	2000
Calcium(mg/L)	17.64	19.24	24.05	20.84	22.44	22.44	46.49	17.6	22.4	17.6	16	17.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	36.39	41.83	36.08	38.97	12.00	11.27	96.24	76	34	37.7	40.57	27.29	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.63	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.67	<0.30	0.32	0.38	<0.30	<0.30	0.58	0.64	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)	<0.004	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	<0.04	0.17	0.05	0.11	<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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	<1.8	1.8	<1.8	<1.8	<1.8	<1.8	1.8	1.8	<1.8	<1.8	5.5	7.8	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.16
Area: Orient
Project: HBI Mine

Project / OCP	HBI Mine												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap Water at Rampur Colony													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour(Hazen)	1	1	1	2	1	2	2	2	<1.0	<2.0	<1.0	3	5	15
Turbidity(NTU)	2	2	1	3	2	2	2	1	1	1	1	2	1	5
pH	7.62	7.49	7.66	7.26	7.88	7.68	7.69	7.69	7.65	7.60	7.69	7.86	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	116	112	96	128	128	136	96	132	120	130.8	136.3	136.3	200	600
Total Hardness (Ca CO ₃)(mg/L)	92	88	92	96	104	108	104	108	120	104	96	120	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	26	32	28	27.8	27.6	32	31	19	19	21	20	20	250	1000
Total Dissolve Solid(mg/L)	206	218	220	212	234	248	230	202	293	204	228	208	500	2000
Calcium(mg/L)	25.65	24.05	20.84	20.84	25.65	24.05	20.84	17.6	11.2	19.2	22.4	22.4	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	4.62	10.16	13.01	10.15	3.86	3.94	11.37	1.28	1.45	1.77	3.71	2.29	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	1.62	1.74	2.14	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.54	0.37	0.44	<0.30	<0.30	<0.30	0.52	0.60	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)	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.06	0.16	<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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	40	33	46	41	40	22	14	11	6.1	46	11	5.5	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.17
Area: Orient
Project: HBI Mine

Project / OCP	HBI Mine													Indian Drinking Standards (IS-10500):2012
	HBI Water Filter Plant													
Monitoring Station	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Date of Sampling	1	2	3	1	2	1	1	1	<1.0	<2.0	<1.0	2	5	15
Colour (Hazen)	1	2	3	1	2	1	1	1	<1.0	<2.0	<1.0	2	5	15
Turbidity (NTU)	1	4	2	1	4	3	1	1	2	1	1	1	1	5
pH	7.40	7.33	6.67	6.64	7.68	7.59	5.15	7.51	7.62	7.71	7.62	7.88	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	108	116	112	128	92	104	8	136	76	126.4	132.1	144.8	200	600
Total Hardness (Ca CO ₃)(mg/L)	76	84	144	88	100	100	624	64	52	100	116	72	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	26	28	30	25.81	15.77	20	12	19	10	17	24	20	250	1000
Total Dissolve Solid(mg/L)	204	224	228	208	184	198	824	200	179	198	218	206	500	2000
Calcium(mg/L)	25.65	27.25	24.05	19.24	27.25	25.65	107.41	17.6	16.0	20.8	19.2	17.6	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	<0.04	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	0.53	<0.04	<0.07	0.1	0.3
Sulphate(mg/L)	5.75	12.35	11.05	11.03	14.43	14.65	299.33	2.56	16.81	1.03	3.14	2	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	1.39	<0.5	<0.5	1.59	1.66	0.77	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	0.42	0.47	<0.30	0.31	0.42	<0.30	<0.30	0.52	0.58	0.50	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)	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.29	<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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	1.8	<1.8	6.1	4	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.18

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)													Indian Drinking Standards (IS-10500):2012
	Tap water at DAV School (Anand Vihar)													
Monitoring Station	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep -21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Date of Sampling														
Colour (Hazen)	2	1	1	2	2	1	2	1	<1.0	<2.0	<1.0	4	5	15
Turbidity (NTU)	2	2	1	1	2	2	2	2	2	1	2	1	1	5
pH	7.73	7.58	7.87	7.57	7.20	7.31	7.71	7.66	7.70	7.69	7.73	7.83	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	84	92	84	84	48	56	112	112	88	91.6	98	102.2	200	600
Total Hardness (Ca CO ₃) (mg/L)	92	100	60	84	72	72	92	104	92	100	112	100	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	14	18	12	15.89	9.86	12	31	8	6	8	10	8	250	1000
Total Dissolve Solid(mg/L)	154	172	160	152	142	156	196	160	226	146	172	156	500	2000
Calcium(mg/L)	24.05	25.65	25.65	27.25	22.44	22.44	12.83	24	19	24	25.6	25.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	9.49	15.42	18.46	22.50	28.57	27.60	11.81	15.13	19.42	12.67	15.57	11	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	0.72	0.94	0.77	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.65	<0.30	<0.30	<0.30	<0.30	<0.30	0.43	0.48	0.43	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)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.09	<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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	6.7	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.19

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)												Indian Drinking Standards (IS-10500):2012	
Monitoring Station	Tap Water at Corporate Office (Jagriti Vihar)													
Date of Sampling	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Acceptable	Permissible
Colour (Hazen)	2	1	2	1	1	2	2	1	<1.0	<2.0	<1.0	2	5	15
Turbidity (NTU)	1	3	3	2	1	2	1	1	3	1	2	1	1	5
pH	7.78	7.65	7.88	7.86	7.28	7.43	7.58	7.67	7.65	7.71	7.80	7.86	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	92	96	84	100	52	60	64	112	92	95.9	102.2	89.5	200	600
Total Hardness (Ca CO ₃) (mg/L)	100	108	92	112	84	80	88	76	88	100	92	92	200	600
Iron(mg/L)	<0.1	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	14	20	12	15.89	9.86	14	20	10	6	6	10	6	250	1000
Total Dissolve Solid(mg/L)	164	184	162	164	146	168	132	158	236	144	168	152	500	2000
Calcium(mg/L)	28.86	30.46	27.25	28.86	19.24	19.24	20.84	19.2	20.8	24	22.4	25.6	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	<0.04	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	<0.07	0.1	0.3
Sulphate(mg/L)	9.72	14.13	18.60	20.00	27.86	26.76	21.99	13.85	19.13	12.22	14	12.43	200	400
Nitrate(mg/L)	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	0.84	1.06	0.78	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	0.62	<0.30	<0.30	<0.30	<0.30	<0.30	0.47	0.54	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)	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.14	<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)	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.2	<0.1	<0.1	<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)	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	4.0	4.0	-	-
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	0.002
Selenium(mg/L)									<0.005	<0.005	<0.005	<0.005	0.01	No relaxation

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JOB NO.750001

Table: 12.20

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)					Indian Drinking Standards (IS-10500):2012	
	Inlet to Water Treatment Plant (Anand Vihar)					Acceptable	Permissible
Monitoring Station	May-21	Aug-21	Nov-21	Dec-21	Feb-22		
Date of Sampling							
Colour (Hazen)	1	2	2	<1.0	<1.0	5	15
Turbidity (NTU)	1	2	2	1	1	1	5
Ph	7.92	7.37	7.63	7.71	7.61	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	88	68	92	84	106.5	200	600
Total Hardness (Ca CO3) (mg/L)	104	72	72	88	92	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	16	9.86	6	10	8	250	1000
Total Dissolve Solid(mg/L)	172	134	140	243	148	500	2000
Calcium(mg/L)	25.65	19.24	20.80	24.00	19.2	75	200
Copper(mg/L)	<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	0.1	0.3
Sulphate(mg/L)	12.58	11.43	13.42	18.55	14.57	200	400
Nitrate(mg/L)	<0.5	0.93	<0.5	<0.5	0.62	45	No relaxation
Fluoride(mg/L)	<0.30	<0.30	<0.30	<0.30	0.44	1	1.5
Arsenic(mg/L)	<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	0.01	No relaxation
Zinc(mg/L)	<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	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.2	<0.1	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	<1.8	<1.8	-	-
Residual Free Chlorine(mg/L)	<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	0.002
Selenium(mg/L)				<0.005	<0.005	0.01	No relaxation

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Table: 12.21

Area: MCL

Project: MCL (HQ)

Project / OCP	MCL(HQ)					Indian Drinking Standards (IS-10500):2012	
	Outlet to Water Treatment Plant (Anand Vihar)					Acceptable	Permissible
Monitoring Station	May-21	Aug-21	Nov-21	Dec-21	Feb-22		
Date of Sampling							
Colour (Hazen)	1	1	1	<1.0	<1.0	5	15
Turbidity (NTU)	2	3	3	2	1	1	5
pH	7.89	7.67	7.71	7.57	7.48	6.5-8.5	No relaxation
Total Alkalinity(mg/L)	80	52	96	56	98	200	600
Total Hardness (Ca CO ₃) (mg/L)	100	84	200	72	180	200	600
Iron(mg/L)	<0.1	<0.10	<0.1	<0.1	<0.1	1.0	No relaxation
Chloride(mg/L)	16	7.89	8	4	30	250	1000
Total Dissolve Solid(mg/L)	174	152	138	170	278	500	2000
Calcium(mg/L)	28.86	25.65	38.4	25.6	49.6	75	200
Copper(mg/L)	<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	0.1	0.3
Sulphate(mg/L)	10.61	30.29	14.1	10.58	52.29	200	400
Nitrate(mg/L)	<0.5	<0.50	<0.5	<0.5	13.44	45	No relaxation
Fluoride(mg/L)	<0.30	0.32	<0.30	<0.30	0.56	1	1.5
Arsenic(mg/L)	<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	0.01	No relaxation
Zinc(mg/L)	<0.04	<0.04	<0.04	0.14	0.11	5	15
Total Chromium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	No relaxation
Boron(mg/L)	<0.1	<0.10	<0.2	<0.2	<0.1	0.5	2.4
Cadmium(mg/L)	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	No relaxation
MPN (Index/100 ml)	0	<1.8	<1.8	<1.8	7.8	-	-
Residual Free Chlorine(mg/L)	<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	0.002
Selenium(mg/L)				<0.005	<0.005	0.01	No relaxation

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PIEZOMETER DEPTH

ANALYSIS



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TABLE NO 13 FOR PIEZOMETER QUANTITY DATA

Table:13.1

Area	Project	Name of the Station	Date of Sampling	Below Ground Levels (meter)
Basundhara	Kulda OCP	Piezometer No MIP 01; Village Garjanbahal (village school campus)	20-May-21	12.47
Basundhara	Kulda OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus)	25-Aug-21	11.34
Basundhara	Kulda OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus)	27-Nov-21	9.34
Basundhara	Kulda OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus)	27-Jan-22	6.44
Basundhara	Garjanbahal OCP	Piezometer No MIP 01; Village Garjanbahal (Village school campus) (Reported only)	20-May-21	12.47
Basundhara	Garjanbahal OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus) (Reported only)	25-Aug-21	11.34
Basundhara	Garjanbahal OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus) (Reported only)	27-Nov-21	9.34
Basundhara	Garjanbahal OCP	Piezometer No MIP 01; Village Garjanbahal (Village School Campus) (Reported only)	27-Jan-22	6.44
Ib valley	Lajkura OCP	Piezometer No MIP 02; Village Gumadera; Village high school	29-May-21	24.32
Ib valley	Lajkura OCP	Piezometer No MIP 02; Village Gumadera; Village High School	25-Aug-21	22.67
Ib valley	Lajkura OCP	Piezometer No MIP 02; Village Gumadera; Village High School	25-Nov-21	18.12
Ib valley	Lajkura OCP	Piezometer No MIP 02; Village Gumadera; Village High School	24-Jan-22	19.36
Orinet	Orient Mine No. 1 & 2	Piezometer No MIP 03; Beside Ib Valley GM House	25-Nov-21	7.19
Orinet	Orient Mine No. 1 & 2	Piezometer No MIP 03; Beside Ib Valley GM House	25-Jan-22	4.21
Orinet	Orient Mine No. 1 & 2	Piezometer No MIP 03; Beside Ib valley GM house.	29-May-21	9.88
Orinet	Orient Mine No. 1 & 2	Piezometer No MIP 03; Beside Ib Valley GM House.	25-Aug-21	7.63
Ib valley	Samaleswari OCP	Piezometer No MIP 04; Village Kutabaga; (Believer's church school)	29-May-21	11.49
Ib valley	Samaleswari OCP	Piezometer No MIP 04; Village Kutabaga; (Believer's Church School)	25-Aug-21	9.27
Ib valley	Samaleswari OCP	Piezometer No MIP 04; Village Kutabaga; (Believer's Church School)	25-Nov-21	8.26
Ib valley	Samaleswari OCP	Piezometer No MIP 04; Village Kutabaga; (Believer's Church School)	24-Jan-22	7.52
Orinet	Orient Mine No. 3	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus	29-May-21	32.67
Orinet	Orient Mine No. 3	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus	25-Aug-21	29.39
Orinet	Orient Mine No. 3	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus	25-Nov-21	27.34
Orinet	Orient Mine No. 3	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus	25-Jan-22	21.64
Orient	HBI	Piezometer No MIP 05; Village Chauliberna; Inside nursing High school campus (Reported only)	29-May-21	32.67
Orient	HBI	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only)	25-Aug-21	29.39
Orient	HBI	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only)	25-Nov-21	27.34
Orient	HBI	Piezometer No MIP 05; Village Chauliberna; Inside Nursing High School Campus (Reported only)	25-Jan-22	21.64
Lakhanpur	Lilari OCP	Piezometer No MIP 06; Infront of Lilari mines Project office.	29-May-21	20.73
Lakhanpur	Lilari OCP	Piezometer No MIP 06; Infront of Lilari Mines Project Office.	25-Aug-21	19.84
Lakhanpur	Lilari OCP	Piezometer No MIP 06; Infront of Lilari Mines Project Office.	26-Nov-21	17.41
Lakhanpur	Belpahar OCP	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony Substation	07-Aug-21	4.57
Lakhanpur	Belpahar OCP	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation	27-Nov-21	4.23

Lakhanpur	Belpahar OCP	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation	25-Jan-22	6.22
Lakhanpur	Belpahar OCP	Piezometer No MIP 07; Infront of DAV school Bandbahal, Inside colony substation.	25-May-21	6.82
Lakhanpur	Belpahar OCP	Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik	26-Aug-21	6.37
Lakhanpur	Belpahar OCP	Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik Vidyalaya	26-Nov-21	6.11
Lakhanpur	Belpahar OCP	Piezometer No MIP 08; Village Kusraloi, Inside the premises of Prathamik Vidyalaya	25-May-21	7.49
Lakhanpur	Belpahar OCP	Piezometer No MIP 08; Village Kusraloi, Inside the Premises of Prathamik Vidyalaya	25-Jan-22	9.53
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 09; Village Junion; Inside the Premises of State Govt. Horticulture Institute	26-Aug-21	9.13
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 09; Village Junion; Inside the Premises of State Govt. Horticulture Institute	26-Nov-21	7.19
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 09; Village Junion; Inside the Premises of State Govt. Horticulture Institute	25-Jan-22	5.27
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 09; Village Junion; Inside the premises of State Govt. Horticulture Institute.	25-May-21	11.56
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 10; Village Dahaldera; Inside the Premises of UP School	26-Nov-21	14.37
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 10; Village Dahaldera; Inside the Premises of UP School	25-Jan-22	12.39
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 10; Village Dahaldera; Inside the premises of UP school.	25-May-21	16.73
Lakhanpur	Lakhanpur OCP	Piezometer No MIP 10; Village Dahaldera; Inside the Premises of UP School.	26-Aug-21	15.74
Basundhara	Kulda OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary school.	20-May-21	11.51
Basundhara	Kulda OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.	25-Aug-21	9.63
Basundhara	Kulda OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.	27-Nov-21	10.17
Basundhara	Kulda OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.	27-Jan-22	8.22
Basundhara	Garjanbahal OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary school.(Reported only)	20-May-21	11.51
Basundhara	Garjanbahal OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only)	25-Aug-21	9.63
Basundhara	Garjanbahal OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only)	27-Nov-21	10.17
Basundhara	Garjanbahal OCP	Piezometer No MIP 11; Village Karlikachar; Infront of Primary School.(Reported only)	27-Jan-22	8.22
Basundhara	Kulda OCP	Piezometer No MIP 12; Village Balinga; MCL office.	20-May-21	5.39
Basundhara	Kulda OCP	Piezometer No MIP 12; Village Balinga; MCL Office.	25-Aug-21	4.29
Basundhara	Kulda OCP	Piezometer No MIP 12; Village Balinga; MCL Office.	27-Nov-21	3.26
Basundhara	Kulda OCP	Piezometer No MIP 12; Village Balinga; MCL Office	27-Jan-22	2.49
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 13; Village Tumlia; Inside the campus of Manikeswari College.	20-May-21	Pipe fitted. Level could not be measured
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	25-Aug-21	
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	27-Nov-21	
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 13; Village Tumlia; Inside the Campus of Manikeswari College.	27-Jan-22	
Basundhara	Kulda OCP	Piezometer No MIP 14; Village Kulda; Primary school campus.	20-May-21	82.87
Basundhara	Kulda OCP	Piezometer No MIP 14; Village Kulda; Primary School Campus.	25-Aug-21	79.57
Basundhara	Kulda OCP	Piezometer No MIP 14; Village Kulda; Primary School Campus.	27-Nov-21	76.29
Basundhara	Kulda OCP	Piezometer No MIP 14; Village Kulda; Primary School Campus.	27-Jan-22	69.72
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 15; Back Side of Sardega Primary School	25-Aug-21	6.31
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 15; Back Side of Sardega Primary School	27-Nov-21	5.19
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 15; Back side of Sardega Primary school.	20-May-21	6.47
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 15; Back Side of Sardega Primary School.	27-Jan-22	8.66
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 16; Village Kulharparha (new basti) on the road from Sardega to Gopalpur	25-Aug-21	15.84

Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 16; Village Kulhparha (new basti) on the road from Sardega to Gopalpur	27-Nov-21	14.39
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 16; Village Kulhparha (new basti) on the road from Sardega to Gopalpur	27-Jan-22	12.59
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 16; Village Kulhparha (new basti) on the road from Sardega to Gopalpur.	20-May-21	18.61
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration camp.	20-May-21	13.43
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp.	25-Aug-21	11.19
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp.	27-Nov-21	11.22
Mahalaxmi	Basundhara (W) OCP	Piezometer No MIP 17; Village Gopalpur; CMPDI Exploration Camp. E	27-Jan-22	7.17



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HEAVY METAL QUANTITY IN

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TABLE NO 14 FOR HEAVY METAL QUANTITY DATA

April 2021

Table:14.1

<i>Project</i>	Samleswari OCP			
<i>Monitoring Station</i>	Rampur Sub Area			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Apr-21	2.86	<0.1	<1.0	<1.0
08-Apr-21	2.78	<0.1	<1.0	<1.0
14-Apr-21	2.80	<0.1	<1.0	<1.0
15-Apr-21	2.81	<0.1	<1.0	<1.0
21-Apr-21	2.98	<0.1	<1.0	<1.0
22-Apr-21	2.89	<0.1	<1.0	<1.0
27-Apr-21	2.96	<0.1	<1.0	<1.0
28-Apr-21	2.91	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.2

<i>Project</i>	Lajkura OCP			
<i>Monitoring Station</i>	Khokelmal			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Apr-21	4.01	<0.1	<1.0	<1.0
08-Apr-21	4.12	<0.1	<1.0	<1.0
14-Apr-21	3.98	<0.1	<1.0	<1.0
15-Apr-21	3.86	<0.1	<1.0	<1.0
21-Apr-21	3.12	<0.1	<1.0	<1.0
22-Apr-21	3.19	<0.1	<1.0	<1.0
26-Apr-21	3.10	<0.1	<1.0	<1.0
27-Apr-21	3.24	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.3

<i>Project</i>	Lakhanpur OCP			
<i>Monitoring Station</i>	South of Quarry 6			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Apr-21	2.45	<0.1	<1.0	<1.0
08-Apr-21	2.48	<0.1	<1.0	<1.0
14-Apr-21	2.52	<0.1	<1.0	<1.0
15-Apr-21	2.48	<0.1	<1.0	<1.0
21-Apr-21	3.26	<0.1	<1.0	<1.0
22-Apr-21	3.29	<0.1	<1.0	<1.0
27-Apr-21	3.24	<0.1	<1.0	<1.0
28-Apr-21	3.21	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table:14.4

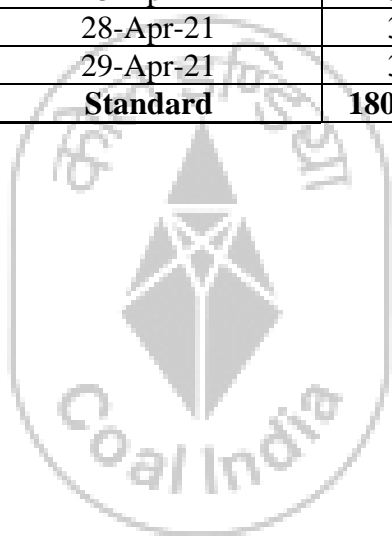
<i>Project</i>	Lakhanpur OCP			
<i>Monitoring Station</i>	South West of Quarry 6			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Apr-21	3.76	<0.1	<1.0	<1.0
08-Apr-21	3.80	<0.1	<1.0	<1.0
14-Apr-21	3.84	<0.1	<1.0	<1.0
15-Apr-21	3.89	<0.1	<1.0	<1.0
21-Apr-21	2.33	<0.1	<1.0	<1.0
22-Apr-21	2.86	<0.1	<1.0	<1.0
27-Apr-21	2.81	<0.1	<1.0	<1.0
28-Apr-21/	2.89	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.5

<i>Project</i>	Belpahar OCP			
<i>Monitoring Station</i>	East of the Mine			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Apr-21	2.84	<0.1	<1.0	<1.0
07-Apr-21	2.76	<0.1	<1.0	<1.0
10-Apr-21	2.88	<0.1	<1.0	<1.0
13-Apr-21	2.34	<0.1	<1.0	<1.0
14-Apr-21	2.89	<0.1	<1.0	<1.0
20-Apr-21	3.32	<0.1	<1.0	<1.0
21-Apr-21	3.37	<0.1	<1.0	<1.0
26-Apr-21	3.29	<0.1	<1.0	<1.0
27-Apr-21	3.39	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.6

<i>roject</i>	Belpahar OCP			
Monitoring Station	South of the Mine			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Apr-21	3.01	<0.1	<1.0	<1.0
02-Apr-21	3.12	<0.1	<1.0	<1.0
06-Apr-21	3.18	<0.1	<1.0	<1.0
08-Apr-21	3.20	<0.1	<1.0	<1.0
09-Apr-21	3.24	<0.1	<1.0	<1.0
15-Apr-21	3.32	<0.1	<1.0	<1.0
16-Apr-21	3.48	<0.1	<1.0	<1.0
22-Apr-21	3.56	<0.1	<1.0	<1.0
23-Apr-21	3.51	<0.1	<1.0	<1.0
28-Apr-21	3.54	<0.1	<1.0	<1.0
29-Apr-21	3.59	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table:14.7

Project	Kulda OCP			
Monitoring Station	North of CHP			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Apr-2021	4.01	<0.1	<1.0	<1.0
03-Apr-2021	3.99	<0.1	<1.0	<1.0
09-Apr-2021	4.12	<0.1	<1.0	<1.0
10-Apr-2021	4.05	<0.1	<1.0	<1.0
16-Apr-2021	3.21	<0.1	<1.0	<1.0
17-Apr-2021	3.25	<0.1	<1.0	<1.0
23-Apr-2021	3.31	<0.1	<1.0	<1.0
24-Apr-2021	3.29	<0.1	<1.0	<1.0
29-Apr-2021	3.34	<0.1	<1.0	<1.0
30-Apr-2021	3.37	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.8

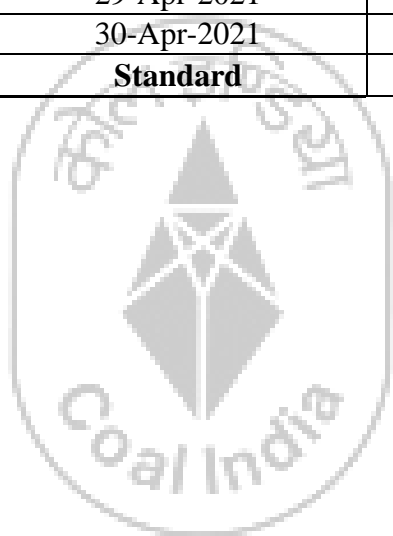
Project	Kulda OCP			
Monitoring Station	South of Working Face			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Apr-2021	3.42	<0.1	<1.0	<1.0
03-Apr-2021	3.36	<0.1	<1.0	<1.0
09-Apr-2021	3.52	<0.1	<1.0	<1.0
10-Apr-2021	3.48	<0.1	<1.0	<1.0
16-Apr-2021	2.68	<0.1	<1.0	<1.0
17-Apr-2021	2.65	<0.1	<1.0	<1.0
23-Apr-2021	2.71	<0.1	<1.0	<1.0
24-Apr-2021	2.63	<0.1	<1.0	<1.0
29-Apr-2021	2.61	<0.1	<1.0	<1.0
30-Apr-2021	2.73	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.9

Project	Kulda OCP			
Monitoring Station	West of Working Face			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Apr-2021	2.12	<0.1	<1.0	<1.0
03-Apr-2021	2.16	<0.1	<1.0	<1.0
09-Apr-2021	2.22	<0.1	<1.0	<1.0
10-Apr-2021	2.24	<0.1	<1.0	<1.0
16-Apr-2021	2.41	<0.1	<1.0	<1.0
17-Apr-2021	2.38	<0.1	<1.0	<1.0
23-Apr-2021	2.43	<0.1	<1.0	<1.0
24-Apr-2021	2.48	<0.1	<1.0	<1.0
29-Apr-2021	2.45	<0.1	<1.0	<1.0
30-Apr-2021	2.68	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table:14.10

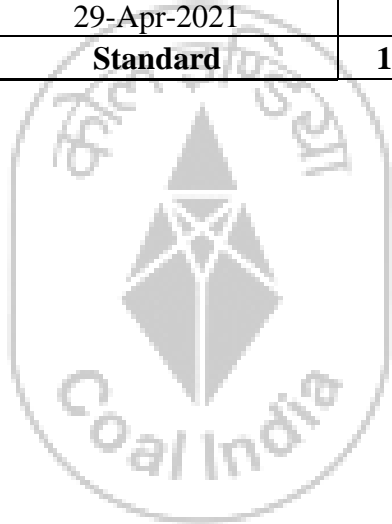
<i>Project</i>	Garjanbahal OCP			
<i>Monitoring Station</i>	Kaletpani Village			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Apr-21	3.86	<0.1	<1.0	<1.0
06-Apr-21	3.64	<0.1	<1.0	<1.0
12-Apr-21	3.80	<0.1	<1.0	<1.0
13-Apr-21	3.78	<0.1	<1.0	<1.0
19-Apr-21	2.43	<0.1	<1.0	<1.0
20-Apr-21	2.45	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.11

<i>Project</i>	Garjanbahal OCP			
<i>Monitoring Station</i>	North West of Working Face (Tumulua)			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Apr-2021	3.12	<0.1	<1.0	<1.0
06-Apr-2021	3.20	<0.1	<1.0	<1.0
12-Apr-2021	3.18	<0.1	<1.0	<1.0
13-Apr-2021	3.05	<0.1	<1.0	<1.0
19-Apr-2021	2.86	<0.1	<1.0	<1.0
20-Apr-2021	2.82	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.12

<i>Project</i>	Basundhara (W) OCP			
<i>Monitoring Station</i>	Sarangijharia Community Centre			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Apr-2021	4.11	<0.1	<1.0	<1.0
02-Apr-2021	4.16	<0.1	<1.0	<1.0
08-Apr-2021	4.22	<0.1	<1.0	<1.0
09-Apr-2021	4.18	<0.1	<1.0	<1.0
15-Apr-2021	4.16	<0.1	<1.0	<1.0
16-Apr-2021	2.61	<0.1	<1.0	<1.0
22-Apr-2021	2.68	<0.1	<1.0	<1.0
23-Apr-2021	2.63	<0.1	<1.0	<1.0
28-Apr-2021	2.57	<0.1	<1.0	<1.0
29-Apr-2021	2.65	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table:14.13

Project	Orient Mine No. 1 & 2			
Monitoring Station	VIP Guest House, IB Valley			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Apr-2021	2.64	<0.1	<1.0	<1.0
06-Apr-2021	2.58	<0.1	<1.0	<1.0
12-Apr-2021	2.76	<0.1	<1.0	<1.0
13-Apr-2021	2.74	<0.1	<1.0	<1.0
19-Apr-2021	2.83	<0.1	<1.0	<1.0
20-Apr-2021	2.56	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.14

Project	HBI Mine			
Monitoring Station	Rampur Sub Area (Reported)			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Apr-2021	2.86	<0.1	<1.0	<1.0
08-Apr-2021	2.78	<0.1	<1.0	<1.0
14-Apr-2021	2.80	<0.1	<1.0	<1.0
15-Apr-2021	2.81	<0.1	<1.0	<1.0
21-Apr-2021	2.98	<0.1	<1.0	<1.0
22-Apr-2021	2.89	<0.1	<1.0	<1.0
27-Apr-2021	2.96	<0.1	<1.0	<1.0
28-Apr-2021	2.91	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.15

<i>Project</i>	Samleswari OCP			
<i>Monitoring Station</i>	Rampur Sub Area			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	2.27	<0.1	<1.0	<1.0
4/May/21	2.36	<0.1	<1.0	<1.0
10/May/21	2.41	<0.1	<1.0	<1.0
11/May/21	2.5	<0.1	<1.0	<1.0
17/May/21	4.09	<0.1	<1.0	<1.0
18/May/21	3.99	<0.1	<1.0	<1.0
24/May/21	3.86	<0.1	<1.0	<1.0
25/May/21	3.92	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.16

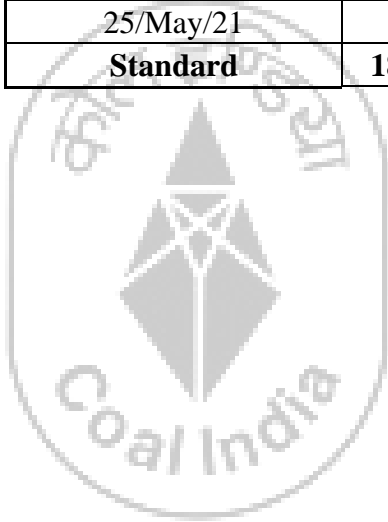
<i>Project</i>	Samleswari OCP			
<i>Monitoring Station</i>	Khokelmal (Reported Only)			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	4.11	<0.1	<1.0	<1.0
4/May/21	4.24	<0.1	<1.0	<1.0
10/May/21	3.98	<0.1	<1.0	<1.0
11/May/21	4.18	<0.1	<1.0	<1.0
17/May/21	2.86	<0.1	<1.0	<1.0
18/May/21	2.74	<0.1	<1.0	<1.0
24/May/21	2.66	<0.1	<1.0	<1.0
25/May/21	2.78	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.17

<i>Project</i>	Lajkura OCP			
<i>Monitoring Station</i>	Khokelmal			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	4.11	<0.1	<1.0	<1.0
4/May/21	4.24	<0.1	<1.0	<1.0
10/May/21	3.98	<0.1	<1.0	<1.0
11/May/21	4.18	<0.1	<1.0	<1.0
17/May/21	2.86	<0.1	<1.0	<1.0
18/May/21	2.74	<0.1	<1.0	<1.0
24/May/21	2.66	<0.1	<1.0	<1.0
25/May/21	2.78	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table:14.18

Project	Lakhanpur OCP			
Monitoring Station	South of Quarry 6			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	3.72	<0.1	<1.0	<1.0
4/May/21	3.68	<0.1	<1.0	<1.0
10/May/21	3.64	<0.1	<1.0	<1.0
11/May/21	3.59	<0.1	<1.0	<1.0
17/May/21	3.11	<0.1	<1.0	<1.0
18/May/21	3.36	<0.1	<1.0	<1.0
24/May/21	3.24	<0.1	<1.0	<1.0
25/May/21	3.4	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.19

Project	Lakhanpur OCP			
Monitoring Station	South West of Quarry 6			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	3.86	<0.1	<1.0	<1.0
4/May/21	3.77	<0.1	<1.0	<1.0
10/May/21	3.68	<0.1	<1.0	<1.0
11/May/21	3.89	<0.1	<1.0	<1.0
17/May/21	3.76	<0.1	<1.0	<1.0
18/May/21	3.86	<0.1	<1.0	<1.0
24/May/21	3.91	<0.1	<1.0	<1.0
25/May/21	3.84	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.20

<i>Project</i>	Belpahar OCP			
<i>Monitoring Station</i>	East of the Mine			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	2.86	<0.1	<1.0	<1.0
4/May/21	2.74	<0.1	<1.0	<1.0
10/May/21	2.68	<0.1	<1.0	<1.0
11/May/21	2.89	<0.1	<1.0	<1.0
17/May/21	2.48	<0.1	<1.0	<1.0
18/May/21	3.52	<0.1	<1.0	<1.0
24/May/21	3.61	<0.1	<1.0	<1.0
25/May/21	3.39	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.21

<i>Project</i>	Belpahar OCP			
<i>Monitoring Station</i>	South of the Mine			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	3.78	<0.1	<1.0	<1.0
4/May/21	3.48	<0.1	<1.0	<1.0
10/May/21	3.61	<0.1	<1.0	<1.0
11/May/21	3.76	<0.1	<1.0	<1.0
17/May/21	2.36	<0.1	<1.0	<1.0
18/May/21	2.41	<0.1	<1.0	<1.0
24/May/21	2.44	<0.1	<1.0	<1.0
25/May/21	2.5	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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<i>Project</i>	Basundhara (W) OCP			
<i>Monitoring Station</i>	Sarangijharia Community Centre			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
5/May/21	4.01	<0.1	<1.0	<1.0
6/May/21	4.14	<0.1	<1.0	<1.0
12/May/21	4.22	<0.1	<1.0	<1.0
13/May/21	4.08	<0.1	<1.0	<1.0
19/May/21	3.76	<0.1	<1.0	<1.0
20/May/21	3.68	<0.1	<1.0	<1.0
26/May/21	3.81	<0.1	<1.0	<1.0
27/May/21	3.64	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.22



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Project	Kulda OCP			
Monitoring Station	North of CHP			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
5/May/21	2.91	<0.1	<1.0	<1.0
6/May/21	2.88	<0.1	<1.0	<1.0
12/May/21	3.01	<0.1	<1.0	<1.0
13/May/21	3.11	<0.1	<1.0	<1.0
19/May/21	4.11	<0.1	<1.0	<1.0
20/May/21	4.08	<0.1	<1.0	<1.0
26/May/21	4.21	<0.1	<1.0	<1.0
27/May/21	3.98	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.23

Table:14.24

Project	Kulda OCP			
Monitoring Station	South of Working Face			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
5/May/21	3.86	<0.1	<1.0	<1.0
6/May/21	3.77	<0.1	<1.0	<1.0
12/May/21	3.67	<0.1	<1.0	<1.0
13/May/21	3.58	<0.1	<1.0	<1.0
19/May/21	3.48	<0.1	<1.0	<1.0
20/May/21	3.52	<0.1	<1.0	<1.0
26/May/21	3.66	<0.1	<1.0	<1.0
27/May/21	3.51	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.25

Project	Kulda OCP			
Monitoring Station	West of Working Face			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
5/May/21	2.86	<0.1	<1.0	<1.0
6/May/21	2.64	<0.1	<1.0	<1.0
12/May/21	2.77	<0.1	<1.0	<1.0
13/May/21	2.92	<0.1	<1.0	<1.0
19/May/21	2.86	<0.1	<1.0	<1.0
20/May/21	2.74	<0.1	<1.0	<1.0
26/May/21	2.68	<0.1	<1.0	<1.0
27/May/21	2.59	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table:14.26

Project	Garjanbahal OCP			
Monitoring Station	Kaletpani Village			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
7/May/21	3.56	<0.1	<1.0	<1.0
8/May/21	3.48	<0.1	<1.0	<1.0
14/May/21	3.6	<0.1	<1.0	<1.0
15/May/21	3.51	<0.1	<1.0	<1.0
21/May/21	3.71	<0.1	<1.0	<1.0
22/May/21	3.68	<0.1	<1.0	<1.0
28/May/21	3.84	<0.1	<1.0	<1.0
29/May/21	3.7	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table:14.27

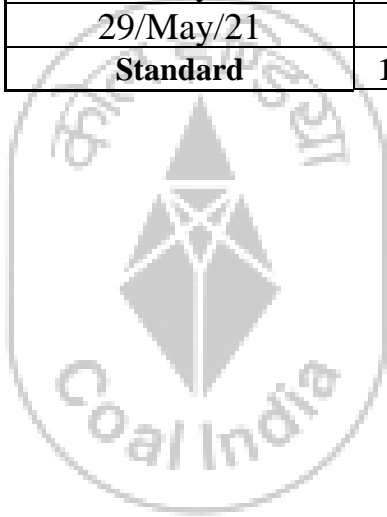
Project	Garjanbahal OCP			
Monitoring Station	North West of Working Face (Tumulia)			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
7/May/21	2.77	<0.1	<1.0	<1.0
8/May/21	2.61	<0.1	<1.0	<1.0
14/May/21	2.48	<0.1	<1.0	<1.0
15/May/21	2.39	<0.1	<1.0	<1.0
21/May/21	2.52	<0.1	<1.0	<1.0
22/May/21	2.48	<0.1	<1.0	<1.0
28/May/21	2.61	<0.1	<1.0	<1.0
29/May/21	2.39	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table:14.28

Project	Orient Mine No. 1 & 2			
Monitoring Station	VIP Guest House, IB Valley			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
7/May/21	4.01	<0.1	<1.0	<1.0
8/May/21	4.12	<0.1	<1.0	<1.0
14/May/21	4.22	<0.1	<1.0	<1.0
15/May/21	4.08	<0.1	<1.0	<1.0
21/May/21	4.12	<0.1	<1.0	<1.0
22/May/21	3.98	<0.1	<1.0	<1.0
28/May/21	4.16	<0.1	<1.0	<1.0
29/May/21	4.15	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



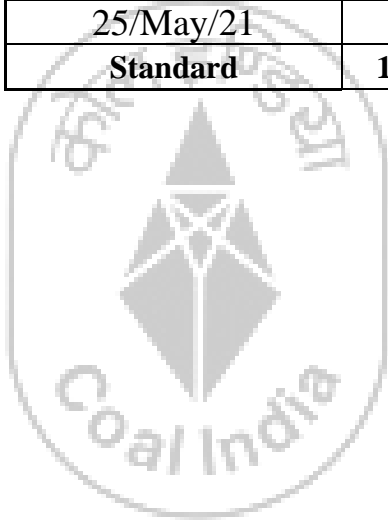
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Table:14.29

<i>Project</i>	HBI Mine			
<i>Monitoring Station</i>	Rampur Sub Area (Reported)			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
3/May/21	2.27	<0.1	<1.0	<1.0
4/May/21	2.36	<0.1	<1.0	<1.0
10/May/21	2.41	<0.1	<1.0	<1.0
11/May/21	2.5	<0.1	<1.0	<1.0
17/May/21	4.09	<0.1	<1.0	<1.0
18/May/21	3.99	<0.1	<1.0	<1.0
24/May/21	3.86	<0.1	<1.0	<1.0
25/May/21	3.92	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

June: 2021

Table: 14.30

<i>Project</i>	Samleswari OCP			
<i>Monitoring Station</i>	Rampur Sub Area			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	3.21	<0.1	<1.0	<1.0
02-June-2021	3.18	<0.1	<1.0	<1.0
07-June-2021	3.22	<0.1	<1.0	<1.0
08-June-2021	3.15	<0.1	<1.0	<1.0
18-June-2021	2.71	<0.1	<1.0	<1.0
19-June-2021	2.67	<0.1	<1.0	<1.0
21-June-2021	2.54	<0.1	<1.0	<1.0
22-June-2021	2.45	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.31

<i>Project</i>	Samleswari OCP			
<i>Monitoring Station</i>	Khokelmal (Reported Only)			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	4.12	<0.1	<1.0	<1.0
02-June-2021	3.99	<0.1	<1.0	<1.0
07-June-2021	4.20	<0.1	<1.0	<1.0
08-June-2021	4.17	<0.1	<1.0	<1.0
18-June-2021	3.47	<0.1	<1.0	<1.0
19-June-2021	3.28	<0.1	<1.0	<1.0
21-June-2021	3.54	<0.1	<1.0	<1.0
22-June-2021	3.60	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.32

<i>Project</i>	Lajkura OCP			
<i>Monitoring Station</i>	Khokelmal			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	4.12	<0.1	<1.0	<1.0
02-June-2021	3.99	<0.1	<1.0	<1.0
07-June-2021	4.20	<0.1	<1.0	<1.0
08-June-2021	4.17	<0.1	<1.0	<1.0
18-June-2021	3.47	<0.1	<1.0	<1.0
19-June-2021	3.28	<0.1	<1.0	<1.0
21-June-2021	3.54	<0.1	<1.0	<1.0
22-June-2021	3.60	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table: 14.33

<i>Project</i>	Lakhanpur OCP			
<i>Monitoring Station</i>	South of Quarry 6			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	2.86	<0.1	<1.0	<1.0
02-June-2021	2.74	<0.1	<1.0	<1.0
07-June-2021	2.65	<0.1	<1.0	<1.0
08-June-2021	2.60	<0.1	<1.0	<1.0
18-June-2021	3.99	<0.1	<1.0	<1.0
19-June-2021	4.01	<0.1	<1.0	<1.0
21-June-2021	4.12	<0.1	<1.0	<1.0
22-June-2021	4.24	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.34

<i>Project</i>	Lakhanpur OCP			
<i>Monitoring Station</i>	South West of Quarry 6			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	3.54	<0.1	<1.0	<1.0
02-June-2021	3.47	<0.1	<1.0	<1.0
07-June-2021	3.51	<0.1	<1.0	<1.0
08-June-2021	3.49	<0.1	<1.0	<1.0
16-June-2021	3.86	<0.1	<1.0	<1.0
17-June-2021	3.76	<0.1	<1.0	<1.0
21-June-2021	3.61	<0.1	<1.0	<1.0
22-June-2021	3.81	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.35

<i>Project</i>	Belpahar OCP			
<i>Monitoring Station</i>	East of the Mine			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	2.76	<0.1	<1.0	<1.0
02-June-2021	2.61	<0.1	<1.0	<1.0
07-June-2021	2.57	<0.1	<1.0	<1.0
08-June-2021	2.50	<0.1	<1.0	<1.0
16-June-2021	3.27	<0.1	<1.0	<1.0
17-June-2021	3.33	<0.1	<1.0	<1.0
21-June-2021	3.41	<0.1	<1.0	<1.0
22-June-2021	3.29	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.36

<i>Project</i>	Belpahar OCP			
<i>Monitoring Station</i>	South of the Mine			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	2.31	<0.1	<1.0	<1.0
02-June-2021	2.28	<0.1	<1.0	<1.0
07-June-2021	2.18	<0.1	<1.0	<1.0
08-June-2021	2.23	<0.1	<1.0	<1.0
14-June-2021	2.14	<0.1	<1.0	<1.0
15-June-2021	2.25	<0.1	<1.0	<1.0
21-June-2021	2.12	<0.1	<1.0	<1.0
22-June-2021	2.36	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.37

<i>Project</i>	Kulda OCP			
<i>Monitoring Station</i>	North of CHP			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-June-2021	3.41	<0.1	<1.0	<1.0
04-June-2021	3.21	<0.1	<1.0	<1.0
09-June-2021	3.36	<0.1	<1.0	<1.0
10-June-2021	3.31	<0.1	<1.0	<1.0
16-June-2021	4.12	<0.1	<1.0	<1.0
17-June-2021	4.32	<0.1	<1.0	<1.0
23-June-2021	4.17	<0.1	<1.0	<1.0
24-June-2021	4.29	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.38

<i>Project</i>	Kulda OCP			
<i>Monitoring Station</i>	South of Working Face			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-June-2021	2.12	<0.1	<1.0	<1.0
04-June-2021	2.18	<0.1	<1.0	<1.0
09-June-2021	2.23	<0.1	<1.0	<1.0
10-June-2021	3.76	<0.1	<1.0	<1.0
16-June-2021	2.12	<0.1	<1.0	<1.0
17-June-2021	2.27	<0.1	<1.0	<1.0
23-June-2021	2.36	<0.1	<1.0	<1.0
24-June-2021	2.40	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.39

<i>Project</i>	Kulda OCP			
<i>Monitoring Station</i>	West of Working Face			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-June-2021	4.12	<0.1	<1.0	<1.0
04-June-2021	4.23	<0.1	<1.0	<1.0
09-June-2021	4.29	<0.1	<1.0	<1.0
10-June-2021	4.20	<0.1	<1.0	<1.0
16-June-2021	2.86	<0.1	<1.0	<1.0
17-June-2021	2.91	<0.1	<1.0	<1.0
23-June-2021	2.75	<0.1	<1.0	<1.0
24-June-2021	3.02	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table: 14.40

<i>Project</i>	Garjanbahal OCP			
<i>Monitoring Station</i>	Kaletpani Village			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-June-2021	3.18	<0.1	<1.0	<1.0
05-June-2021	3.25	<0.1	<1.0	<1.0
11-June-2021	3.34	<0.1	<1.0	<1.0
12-June-2021	3.39	<0.1	<1.0	<1.0
18-June-2021	2.99	<0.1	<1.0	<1.0
19-June-2021	3.12	<0.1	<1.0	<1.0
25-June-2021	3.20	<0.1	<1.0	<1.0
26-June-2021	3.37	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.41

<i>Project</i>	Garjanbahal OCP			
<i>Monitoring Station</i>	North West of Working Face (Tumulia)			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-June-2021	2.81	<0.1	<1.0	<1.0
05-June-2021	2.74	<0.1	<1.0	<1.0
11-June-2021	2.68	<0.1	<1.0	<1.0
12-June-2021	2.57	<0.1	<1.0	<1.0
18-June-2021	3.12	<0.1	<1.0	<1.0
19-June-2021	3.21	<0.1	<1.0	<1.0
25-June-2021	3.27	<0.1	<1.0	<1.0
26-June-2021	3.38	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.42

Project	Basundhara (W) OCP			
Monitoring Station	Sarangijharia Community Centre			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-June-2021	3.71	<0.1	<1.0	<1.0
04-June-2021	3.64	<0.1	<1.0	<1.0
09-June-2021	3.65	<0.1	<1.0	<1.0
10-June-2021	3.59	<0.1	<1.0	<1.0
16-June-2021	3.86	<0.1	<1.0	<1.0
17-June-2021	3.71	<0.1	<1.0	<1.0
23-June-2021	3.47	<0.1	<1.0	<1.0
24-June-2021	3.61	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.43

Project	Orient Mine No. 1 & 2			
Monitoring Station	VIP Guest House, IB Valley			
Date of sampling	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-June-2021	2.86	<0.1	<1.0	<1.0
05-June-2021	2.74	<0.1	<1.0	<1.0
11-June-2021	2.65	<0.1	<1.0	<1.0
12-June-2021	2.81	<0.1	<1.0	<1.0
18-June-2021	2.12	<0.1	<1.0	<1.0
19-June-2021	2.17	<0.1	<1.0	<1.0
25-June-2021	2.11	<0.1	<1.0	<1.0
26-June-2021	2.27	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.44

<i>Project</i>	HBI Mine			
<i>Monitoring Station</i>	Rampur Sub Area (Reported)			
<i>Date of sampling</i>	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-June-2021	3.21	<0.1	<1.0	<1.0
02-June-2021	3.18	<0.1	<1.0	<1.0
07-June-2021	3.22	<0.1	<1.0	<1.0
08-June-2021	3.15	<0.1	<1.0	<1.0
18-June-2021	2.71	<0.1	<1.0	<1.0
19-June-2021	2.67	<0.1	<1.0	<1.0
21-June-2021	2.54	<0.1	<1.0	<1.0
22-June-2021	2.45	<0.1	<1.0	<1.0
Standard	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

July: 2021

Table: 14.45

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	5.32	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	4.99	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	3.89	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	4.01	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	4.73	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	5.26	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	5.16	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	6.02	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.46

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	3.82	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	2.86	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	4.08	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	3.25	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	4.83	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	3.78	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	4.03	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	3.84	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.47

Project	Lajkura OCP				
Monitoring Station	Khokelmal				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	3.82	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	2.86	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	4.08	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	3.25	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	4.83	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	3.78	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	4.03	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	3.84	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table: 14.48

<i>Project</i>	Lakhanpur OCP				
<i>Monitoring Station</i>	South of Quarry 6				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	4.26	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	5.07	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	4.87	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	4.01	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	4.72	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	6.02	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	5.04	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	4.74	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.49

<i>Project</i>	Lakhanpur OCP				
<i>Monitoring Station</i>	South West of Quarry 6				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	6.81	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	4.86	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	5.22	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	4.99	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	5.08	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	4.76	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	4.84	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	5.20	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.50

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	East of the Mine				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	3.71	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	4.08	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	3.44	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	2.66	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	3.12	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	4.15	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	3.78	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	4.73	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.51

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	South of the Mine				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	4.71	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	3.91	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	6.23	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	5.84	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	5.16	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	4.36	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	3.96	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	4.41	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.52

<i>Project</i>	Kulda OCP				
<i>Monitoring Station</i>	North of CHP				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jul-2021	<20.0	4.26	<0.1	<1.0	<1.0
06-Jul-2021	<20.0	3.77	<0.1	<1.0	<1.0
12-Jul-2021	<20.0	4.02	<0.1	<1.0	<1.0
13-Jul-2021	<20.0	5.22	<0.1	<1.0	<1.0
19-Jul-2021	<20.0	3.70	<0.1	<1.0	<1.0
20-Jul-2021	<20.0	3.55	<0.1	<1.0	<1.0
26-Jul-2021	<20.0	3.74	<0.1	<1.0	<1.0
27-Jul-2021	<20.0	5.20	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.53

<i>Project</i>	Kulda OCP				
<i>Monitoring Station</i>	South of Working Face				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jul-2021	<20.0	2.90	<0.1	<1.0	<1.0
06-Jul-2021	<20.0	4.20	<0.1	<1.0	<1.0
12-Jul-2021	<20.0	5.22	<0.1	<1.0	<1.0
13-Jul-2021	<20.0	3.61	<0.1	<1.0	<1.0
19-Jul-2021	<20.0	5.33	<0.1	<1.0	<1.0
20-Jul-2021	<20.0	4.46	<0.1	<1.0	<1.0
26-Jul-2021	<20.0	3.86	<0.1	<1.0	<1.0
27-Jul-2021	<20.0	4.21	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.54

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jul-2021	<20.0	2.98	<0.1	<1.0	<1.0
06-Jul-2021	<20.0	3.56	<0.1	<1.0	<1.0
12-Jul-2021	<20.0	4.22	<0.1	<1.0	<1.0
13-Jul-2021	<20.0	3.86	<0.1	<1.0	<1.0
19-Jul-2021	<20.0	6.01	<0.1	<1.0	<1.0
20-Jul-2021	<20.0	5.72	<0.1	<1.0	<1.0
26-Jul-2021	<20.0	3.96	<0.1	<1.0	<1.0
27-Jul-2021	<20.0	6.04	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.55

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jul-2021	<20.0	4.82	<0.1	<1.0	<1.0
08-Jul-2021	<20.0	5.80	<0.1	<1.0	<1.0
14-Jul-2021	<20.0	6.02	<0.1	<1.0	<1.0
15-Jul-2021	<20.0	5.81	<0.1	<1.0	<1.0
21-Jul-2021	<20.0	4.92	<0.1	<1.0	<1.0
22-Jul-2021	<20.0	6.8	<0.1	<1.0	<1.0
28-Jul-2021	<20.0	5.22	<0.1	<1.0	<1.0
29-Jul-2021	<20.0	4.71	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.56

Project	Garjanbahal OCP				
Monitoring Station	North West of Working Face (Tumulia)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jul-2021	<20.0	6.82	<0.1	<1.0	<1.0
08-Jul-2021	<20.0	3.72	<0.1	<1.0	<1.0
14-Jul-2021	<20.0	4.71	<0.1	<1.0	<1.0
15-Jul-2021	<20.0	4.22	<0.1	<1.0	<1.0
21-Jul-2021	<20.0	6.03	<0.1	<1.0	<1.0
22-Jul-2021	<20.0	4.78	<0.1	<1.0	<1.0
28-Jul-2021	<20.0	3.77	<0.1	<1.0	<1.0
29-Jul-2021	<20.0	3.76	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.57

Project	Basundhara (W) OCP				
Monitoring Station	Sarangijharia Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jul-2021	<20.0	6.01	<0.1	<1.0	<1.0
06-Jul-2021	<20.0	4.92	<0.1	<1.0	<1.0
12-Jul-2021	<20.0	3.84	<0.1	<1.0	<1.0
13-Jul-2021	<20.0	4.82	<0.1	<1.0	<1.0
19-Jul-2021	<20.0	3.72	<0.1	<1.0	<1.0
20-Jul-2021	<20.0	3.86	<0.1	<1.0	<1.0
26-Jul-2021	<20.0	3.84	<0.1	<1.0	<1.0
27-Jul-2021	<20.0	3.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.58

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jul-2021	<20.0	4.26	<0.1	<1.0	<1.0
08-Jul-2021	<20.0	6.03	<0.1	<1.0	<1.0
14-Jul-2021	<20.0	4.82	<0.1	<1.0	<1.0
15-Jul-2021	<20.0	5.23	<0.1	<1.0	<1.0
21-Jul-2021	<20.0	6.21	<0.1	<1.0	<1.0
22-Jul-2021	<20.0	3.72	<0.1	<1.0	<1.0
28-Jul-2021	<20.0	3.76	<0.1	<1.0	<1.0
29-Jul-2021	<20.0	4.78	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.59

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Jul-2021	<20.0	5.32	<0.1	<1.0	<1.0
02-Jul-2021	<20.0	4.99	<0.1	<1.0	<1.0
09-Jul-2021	<20.0	3.89	<0.1	<1.0	<1.0
10-Jul-2021	<20.0	4.01	<0.1	<1.0	<1.0
16-Jul-2021	<20.0	4.73	<0.1	<1.0	<1.0
17-Jul-2021	<20.0	5.26	<0.1	<1.0	<1.0
23-Jul-2021	<20.0	5.16	<0.1	<1.0	<1.0
24-Jul-2021	<20.0	6.02	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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August: 2021

Table: 14.60

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-2021	<20.0	5.08	<0.1	<1.0	<1.0
07-Aug-2021	<20.0	6.09	<0.1	<1.0	<1.0
13-Aug-2021	<20.0	2.98	<0.1	<1.0	<1.0
14-Aug-2021	<20.0	4.93	<0.1	<1.0	<1.0
20-Aug-2021	<20.0	4.26	<0.1	<1.0	<1.0
21-Aug-2021	<20.0	3.76	<0.1	<1.0	<1.0
27-Aug-2021	<20.0	4.63	<0.1	<1.0	<1.0
28-Aug-2021	<20.0	5.34	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.61

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-2021	<20.0	3.73	<0.1	<1.0	<1.0
07-Aug-2021	<20.0	3.62	<0.1	<1.0	<1.0
13-Aug-2021	<20.0	2.92	<0.1	<1.0	<1.0
14-Aug-2021	<20.0	2.88	<0.1	<1.0	<1.0
20-Aug-2021	<20.0	2.95	<0.1	<1.0	<1.0
21-Aug-2021	<20.0	2.76	<0.1	<1.0	<1.0
27-Aug-2021	<20.0	3.06	<0.1	<1.0	<1.0
28-Aug-2021	<20.0	3.21	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.62

Project	Lajkura OCP				
Monitoring Station	Khokelmal				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-2021	<20.0	3.73	<0.1	<1.0	<1.0
07-Aug-2021	<20.0	3.62	<0.1	<1.0	<1.0
13-Aug-2021	<20.0	2.92	<0.1	<1.0	<1.0
14-Aug-2021	<20.0	2.88	<0.1	<1.0	<1.0
20-Aug-2021	<20.0	2.95	<0.1	<1.0	<1.0
21-Aug-2021	<20.0	2.76	<0.1	<1.0	<1.0
27-Aug-2021	<20.0	3.06	<0.1	<1.0	<1.0
28-Aug-2021	<20.0	3.21	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.63

Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Aug-2021	<20.0	4.23	<0.1	<1.0	<1.0
05-Aug-2021	<20.0	3.67	<0.1	<1.0	<1.0
11-Aug-2021	<20.0	4.12	<0.1	<1.0	<1.0
12-Aug-2021	<20.0	3.52	<0.1	<1.0	<1.0
18-Aug-2021	<20.0	4.56	<0.1	<1.0	<1.0
19-Aug-2021	<20.0	6.20	<0.1	<1.0	<1.0
25-Aug-2021	<20.0	5.15	<0.1	<1.0	<1.0
26-Aug-2021	<20.0	4.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.64

Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Aug-2021	<20.0	5.86	<0.1	<1.0	<1.0
05-Aug-2021	<20.0	5.92	<0.1	<1.0	<1.0
11-Aug-2021	<20.0	4.83	<0.1	<1.0	<1.0
12-Aug-2021	<20.0	3.99	<0.1	<1.0	<1.0
18-Aug-2021	<20.0	3.66	<0.1	<1.0	<1.0
19-Aug-2021	<20.0	3.50	<0.1	<1.0	<1.0
25-Aug-2021	<20.0	4.20	<0.1	<1.0	<1.0
26-Aug-2021	<20.0	2.91	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.65

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Aug-2021	<20.0	4.23	<0.1	<1.0	<1.0
05-Aug-2021	<20.0	5.14	<0.1	<1.0	<1.0
11-Aug-2021	<20.0	6.15	<0.1	<1.0	<1.0
12-Aug-2021	<20.0	6.36	<0.1	<1.0	<1.0
18-Aug-2021	<20.0	2.76	<0.1	<1.0	<1.0
19-Aug-2021	<20.0	3.15	<0.1	<1.0	<1.0
25-Aug-2021	<20.0	2.83	<0.1	<1.0	<1.0
26-Aug-2021	<20.0	3.45	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.66

Project	Belpahar OCP				
Monitoring Station	South of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Aug-2021	<20.0	6.12	<0.1	<1.0	<1.0
05-Aug-2021	<20.0	5.99	<0.1	<1.0	<1.0
11-Aug-2021	<20.0	3.82	<0.1	<1.0	<1.0
12-Aug-2021	<20.0	4.13	<0.1	<1.0	<1.0
18-Aug-2021	<20.0	3.63	<0.1	<1.0	<1.0
19-Aug-2021	<20.0	2.83	<0.1	<1.0	<1.0
25-Aug-2021	<20.0	4.26	<0.1	<1.0	<1.0
26-Aug-2021	<20.0	4.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.67

Project	Kulda OCP				
Monitoring Station	North of CHP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-2021	<20.0	6.86	<0.1	<1.0	<1.0
03-Aug-2021	<20.0	3.92	<0.1	<1.0	<1.0
09-Aug-2021	<20.0	5.72	<0.1	<1.0	<1.0
10-Aug-2021	<20.0	3.88	<0.1	<1.0	<1.0
16-Aug-2021	<20.0	3.94	<0.1	<1.0	<1.0
17-Aug-2021	<20.0	4.82	<0.1	<1.0	<1.0
23-Aug-2021	<20.0	6.10	<0.1	<1.0	<1.0
24-Aug-2021	<20.0	5.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.68

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-2021	<20.0	3.99	<0.1	<1.0	<1.0
03-Aug-2021	<20.0	3.13	<0.1	<1.0	<1.0
09-Aug-2021	<20.0	4.12	<0.1	<1.0	<1.0
10-Aug-2021	<20.0	4.76	<0.1	<1.0	<1.0
16-Aug-2021	<20.0	4.76	<0.1	<1.0	<1.0
17-Aug-2021	<20.0	3.71	<0.1	<1.0	<1.0
23-Aug-2021	<20.0	3.81	<0.1	<1.0	<1.0
24-Aug-2021	<20.0	4.93	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.69

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-2021	<20.0	5.88	<0.1	<1.0	<1.0
03-Aug-2021	<20.0	4.54	<0.1	<1.0	<1.0
09-Aug-2021	<20.0	3.39	<0.1	<1.0	<1.0
10-Aug-2021	<20.0	2.88	<0.1	<1.0	<1.0
16-Aug-2021	<20.0	4.80	<0.1	<1.0	<1.0
17-Aug-2021	<20.0	5.36	<0.1	<1.0	<1.0
23-Aug-2021	<20.0	3.71	<0.1	<1.0	<1.0
24-Aug-2021	<20.0	6.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.70

<i>Project</i>	Garjanbahal OCP				
<i>Monitoring Station</i>	Kaletpani Village				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-2021	<20.0	3.68	<0.1	<1.0	<1.0
03-Aug-2021	<20.0	4.54	<0.1	<1.0	<1.0
09-Aug-2021	<20.0	2.89	<0.1	<1.0	<1.0
10-Aug-2021	<20.0	3.89	<0.1	<1.0	<1.0
16-Aug-2021	<20.0	3.76	<0.1	<1.0	<1.0
17-Aug-2021	<20.0	2.98	<0.1	<1.0	<1.0
23-Aug-2021	<20.0	4.56	<0.1	<1.0	<1.0
24-Aug-2021	<20.0	5.05	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.71

<i>Project</i>	Garjanbahal OCP				
<i>Monitoring Station</i>	North West of Working Face (Tumulia)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-2021	<20.0	4.88	<0.1	<1.0	<1.0
03-Aug-2021	<20.0	2.76	<0.1	<1.0	<1.0
09-Aug-2021	<20.0	5.15	<0.1	<1.0	<1.0
10-Aug-2021	<20.0	4.84	<0.1	<1.0	<1.0
16-Aug-2021	<20.0	3.56	<0.1	<1.0	<1.0
17-Aug-2021	<20.0	4.15	<0.1	<1.0	<1.0
23-Aug-2021	<20.0	3.96	<0.1	<1.0	<1.0
24-Aug-2021	<20.0	2.88	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.72

Project	Basundhara (W) OCP				
Monitoring Station	Sarangijharia Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
02-Aug-2021	<20.0	3.89	<0.1	<1.0	<1.0
03-Aug-2021	<20.0	4.53	<0.1	<1.0	<1.0
09-Aug-2021	<20.0	3.63	<0.1	<1.0	<1.0
10-Aug-2021	<20.0	6.01	<0.1	<1.0	<1.0
16-Aug-2021	<20.0	6.10	<0.1	<1.0	<1.0
17-Aug-2021	<20.0	5.23	<0.1	<1.0	<1.0
23-Aug-2021	<20.0	6.36	<0.1	<1.0	<1.0
24-Aug-2021	<20.0	5.94	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.73

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-2021	<20.0	4.21	<0.1	<1.0	<1.0
07-Aug-2021	<20.0	5.02	<0.1	<1.0	<1.0
13-Aug-2021	<20.0	3.68	<0.1	<1.0	<1.0
14-Aug-2021	<20.0	3.86	<0.1	<1.0	<1.0
20-Aug-2021	<20.0	4.82	<0.1	<1.0	<1.0
21-Aug-2021	<20.0	3.76	<0.1	<1.0	<1.0
27-Aug-2021	<20.0	3.15	<0.1	<1.0	<1.0
28-Aug-2021	<20.0	2.81	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.74

<i>Project</i>	HBI Mine				
<i>Monitoring Station</i>	Rampur Sub Area				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Aug-2021	<20.0	5.08	<0.1	<1.0	<1.0
07-Aug-2021	<20.0	6.09	<0.1	<1.0	<1.0
13-Aug-2021	<20.0	2.98	<0.1	<1.0	<1.0
14-Aug-2021	<20.0	4.93	<0.1	<1.0	<1.0
20-Aug-2021	<20.0	4.26	<0.1	<1.0	<1.0
21-Aug-2021	<20.0	3.76	<0.1	<1.0	<1.0
27-Aug-2021	<20.0	4.63	<0.1	<1.0	<1.0
28-Aug-2021	<20.0	5.34	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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September: 2021

Table: 14.75

Project	Samleswari OCP				
Monitoring Station	Rampur Sub Area (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Sep-2021	<20.0	5.55	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	4.98	<0.1	<1.0	<1.0
15-Sep-2021	<20.0	4.86	<0.1	<1.0	<1.0
16-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	4.14	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	5.66	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	4.68	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	5.88	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.76

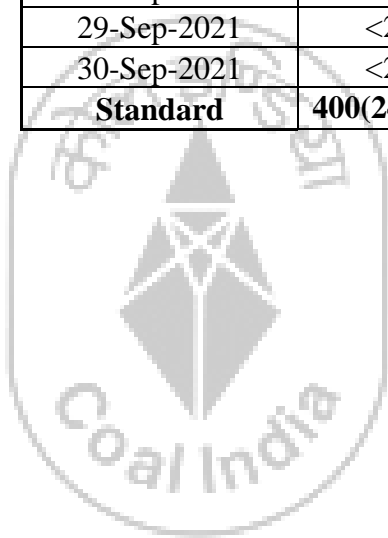
Project	Samleswari OCP				
Monitoring Station	Khokelmal (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	3.46	<0.1	<1.0	<1.0
15-Sep-2021	<20.0	4.03	<0.1	<1.0	<1.0
16-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	3.62	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	3.71	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	4.18	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	3.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.77

Project	Lajkura OCP				
Monitoring Station	Khokelmal				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	3.46	<0.1	<1.0	<1.0
15-Sep-2021	<20.0	4.03	<0.1	<1.0	<1.0
16-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	3.62	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	3.71	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	4.18	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	3.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Table: 14.78

Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	3.96	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	4.89	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	4.55	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	4.62	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	4.52	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	5.12	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	4.22	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	3.86	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.79

Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	5.01	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	2.73	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	6.12	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	5.68	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.80

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	East of the Mine				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	4.42	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	4.55	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	3.85	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	4.05	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	3.71	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	2.98	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	2.92	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.81

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	South of the Mine				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Sep-2021	<20.0	4.11	<0.1	<1.0	<1.0
04-Sep-2021	<20.0	3.87	<0.1	<1.0	<1.0
13-Sep-2021	<20.0	3.77	<0.1	<1.0	<1.0
14-Sep-2021	<20.0	3.56	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
21-Sep-2021	<20.0	4.12	<0.1	<1.0	<1.0
27-Sep-2021	<20.0	3.92	<0.1	<1.0	<1.0
28-Sep-2021	<20.0	5.63	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.82

Project	Kulda OCP				
Monitoring Station	North of CHP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Sep-2021	<20.0	4.88	<0.1	<1.0	<1.0
02-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	3.96	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	2.99	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	3.19	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	4.20	<0.1	<1.0	<1.0
20-Sep-2021	<20.0	4.56	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	5.62	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.83

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Sep-2021	<20.0	6.01	<0.1	<1.0	<1.0
02-Sep-2021	<20.0	5.89	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	6.21	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	6.36	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	5.13	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	4.20	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	3.15	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.84

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Sep-2021	<20.0	3.77	<0.1	<1.0	<1.0
02-Sep-2021	<20.0	4.86	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.12	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	3.65	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	4.26	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.85

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Sep-2021	<20.0	3.87	<0.1	<1.0	<1.0
02-Sep-2021	<20.0	4.53	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	4.67	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	3.98	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.23	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	3.92	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	4.15	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.86

Project	Garjanbahal OCP				
Monitoring Station	North West of Working Face (Tumulia)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Sep-2021	<20.0	3.45	<0.1	<1.0	<1.0
02-Sep-2021	<20.0	3.86	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	4.17	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	3.88	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	4.82	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	3.63	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	6.02	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	3.48	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.87

Project	Basundhara (W) OCP				
Monitoring Station	Sarangijharia Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Sep-2021	<20.0	3.26	<0.1	<1.0	<1.0
02-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
08-Sep-2021	<20.0	6.23	<0.1	<1.0	<1.0
09-Sep-2021	<20.0	5.86	<0.1	<1.0	<1.0
17-Sep-2021	<20.0	3.56	<0.1	<1.0	<1.0
18-Sep-2021	<20.0	3.55	<0.1	<1.0	<1.0
24-Sep-2021	<20.0	4.06	<0.1	<1.0	<1.0
25-Sep-2021	<20.0	4.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.88

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Sep-2021	<20.0	4.93	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	5.36	<0.1	<1.0	<1.0
15-Sep-2021	<20.0	6.23	<0.1	<1.0	<1.0
16-Sep-2021	<20.0	5.48	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	5.81	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	4.66	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	5.25	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	4.63	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.89

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Sep-2021	<20.0	5.55	<0.1	<1.0	<1.0
07-Sep-2021	<20.0	4.98	<0.1	<1.0	<1.0
15-Sep-2021	<20.0	4.86	<0.1	<1.0	<1.0
16-Sep-2021	<20.0	5.23	<0.1	<1.0	<1.0
22-Sep-2021	<20.0	4.14	<0.1	<1.0	<1.0
23-Sep-2021	<20.0	5.66	<0.1	<1.0	<1.0
29-Sep-2021	<20.0	4.68	<0.1	<1.0	<1.0
30-Sep-2021	<20.0	5.88	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

October: 2021

Table: 14.90

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	4.88	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	6.08	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	5.43	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	6.12	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	4.53	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.88	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	5.07	<0.1	<1.0	<1.0
30-Oct-2021	<20.0	5.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.91

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	4.98	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	4.36	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	3.86	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.18	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	6.07	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.77	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	4.56	<0.1	<1.0	<1.0
30-Oct-2021	<20.0	5.82	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.92

Project	Lajkura OCP				
Monitoring Station	Khokelmal				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	4.98	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	4.36	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	3.86	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.18	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	6.07	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.77	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	4.56	<0.1	<1.0	<1.0
30-Oct-2021	<20.0	5.82	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.93

Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	4.87	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	4.63	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	3.92	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	4.77	<0.1	<1.0	<1.0
20-Oct-2021	<20.0	4.77	<0.1	<1.0	<1.0
21-Oct-2021	<20.0	3.62	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	5.12	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	3.66	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.94

Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	4.07	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	3.88	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	4.63	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	5.06	<0.1	<1.0	<1.0
20-Oct-2021	<20.0	4.15	<0.1	<1.0	<1.0
21-Oct-2021	<20.0	6.26	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	4.75	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	3.75	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.95

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	5.23	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	4.68	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	5.26	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	4.73	<0.1	<1.0	<1.0
20-Oct-2021	<20.0	4.82	<0.1	<1.0	<1.0
21-Oct-2021	<20.0	3.76	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	4.12	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	3.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.96

Project	Belpahar OCP				
Monitoring Station	South of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	6.21	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	5.34	<0.1	<1.0	<1.0
11-Oct-2021	<20.0	6.28	<0.1	<1.0	<1.0
12-Oct-2021	<20.0	5.77	<0.1	<1.0	<1.0
20-Oct-2021	<20.0	4.56	<0.1	<1.0	<1.0
21-Oct-2021	<20.0	5.28	<0.1	<1.0	<1.0
27-Oct-2021	<20.0	4.53	<0.1	<1.0	<1.0
28-Oct-2021	<20.0	6.34	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.97

Project	Kulda OCP				
Monitoring Station	North of CHP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	5.73	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	4.42	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	6.12	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	5.56	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	5.70	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	4.82	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	3.98	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	4.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.98

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	6.23	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	4.62	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	5.12	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	6.18	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	4.33	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	4.63	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	5.12	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	6.15	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.99

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	3.89	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	4.23	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	5.36	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	6.12	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	4.62	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	5.68	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	4.88	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	5.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.100

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	3.77	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	3.46	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.63	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	3.82	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	6.23	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	5.56	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	4.82	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	3.92	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.101

Project	Garjanbahal OCP				
Monitoring Station	North West of Working Face (Tumulia)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	4.86	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	3.92	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.06	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	5.26	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	4.68	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	4.52	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	3.91	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	4.21	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.102

Project	Basundhara (W) OCP				
Monitoring Station	Sarangijharia Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
04-Oct-2021	<20.0	3.76	<0.1	<1.0	<1.0
05-Oct-2021	<20.0	6.12	<0.1	<1.0	<1.0
08-Oct-2021	<20.0	4.12	<0.1	<1.0	<1.0
09-Oct-2021	<20.0	4.56	<0.1	<1.0	<1.0
18-Oct-2021	<20.0	5.40	<0.1	<1.0	<1.0
19-Oct-2021	<20.0	3.91	<0.1	<1.0	<1.0
25-Oct-2021	<20.0	5.15	<0.1	<1.0	<1.0
26-Oct-2021	<20.0	3.76	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.103

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	6.41	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	5.43	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	3.77	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	4.58	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	5.10	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	5.26	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	3.95	<0.1	<1.0	<1.0
30-Oct-2021	<20.0	6.28	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.104

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Oct-2021	<20.0	4.88	<0.1	<1.0	<1.0
07-Oct-2021	<20.0	6.08	<0.1	<1.0	<1.0
13-Oct-2021	<20.0	5.43	<0.1	<1.0	<1.0
14-Oct-2021	<20.0	6.12	<0.1	<1.0	<1.0
22-Oct-2021	<20.0	4.53	<0.1	<1.0	<1.0
23-Oct-2021	<20.0	3.88	<0.1	<1.0	<1.0
29-Oct-2021	<20.0	5.02	<0.1	<1.0	<1.0
30-Oct-2021	<20.0	5.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

November: 2021

Table: 14.105

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	6.44	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	6.88	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	4.63	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	4.68	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	5.34	<0.1	<1.0	<1.0
30-Nov-2021	<20.0	6.36	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.106

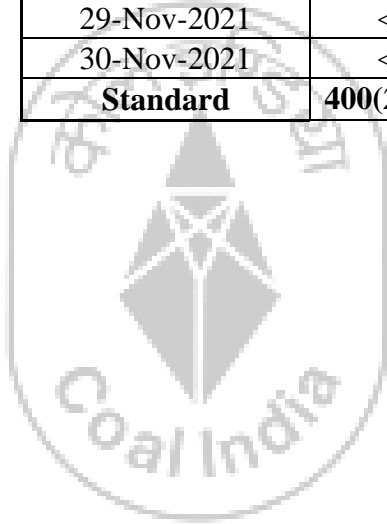
<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	5.28	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	6.92	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	5.83	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	6.88	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	5.67	<0.1	<1.0	<1.0
30-Nov-2021	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.107

<i>Project</i>	Lajkura OCP				
<i>Monitoring Station</i>	Khokelmal				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	5.28	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	6.92	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	5.83	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	6.88	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	5.67	<0.1	<1.0	<1.0
30-Nov-2021	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	5.69	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	6.24	<0.1	<1.0	<1.0
10-Nov-2021	<20.0	5.73	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	6.56	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	7.56	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	6.54	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	6.36	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.108

Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	7.36	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	6.45	<0.1	<1.0	<1.0
10-Nov-2021	<20.0	6.45	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	5.83	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	4.88	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.12	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	7.73	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.109

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Table: 14.110

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	4.66	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
10-Nov-2021	<20.0	6.62	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	7.12	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	5.82	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	7.16	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.111

Project	Belpahar OCP				
Monitoring Station	South of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	5.69	<0.1	<1.0	<1.0
10-Nov-2021	<20.0	4.92	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	5.62	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	4.98	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	6.62	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	7.10	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	6.62	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.112

Project	Kulda OCP				
Monitoring Station	North of CHP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	4.62	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	6.92	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	7.81	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	6.56	<0.1	<1.0	<1.0
24-Nov-2021	<20.0	7.12	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	5.83	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	5.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.113

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	7.12	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	5.45	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	6.12	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	5.16	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	5.44	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
24-Nov-2021	<20.0	4.63	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	7.11	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.114

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	3.96	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	4.88	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	5.26	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	6.83	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	6.46	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	5.88	<0.1	<1.0	<1.0
24-Nov-2021	<20.0	7.51	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	6.92	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.115

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	5.68	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	5.19	<0.1	<1.0	<1.0
10-Nov-2021	<20.0	4.63	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	6.38	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	5.23	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	7.05	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.116

Project	Garjanbahal OCP				
Monitoring Station	North West of Working Face (Tumulia)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Nov-2021	<20.0	7.81	<0.1	<1.0	<1.0
06-Nov-2021	<20.0	7.36	<0.1	<1.0	<1.0
10-Nov-2021	<20.0	6.36	<0.1	<1.0	<1.0
11-Nov-2021	<20.0	5.15	<0.1	<1.0	<1.0
18-Nov-2021	<20.0	6.06	<0.1	<1.0	<1.0
19-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
26-Nov-2021	<20.0	5.14	<0.1	<1.0	<1.0
27-Nov-2021	<20.0	6.26	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.117

Project	Basundhara (W) OCP				
Monitoring Station	Sarangijharia Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	3.96	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	4.15	<0.1	<1.0	<1.0
08-Nov-2021	<20.0	3.88	<0.1	<1.0	<1.0
09-Nov-2021	<20.0	6.25	<0.1	<1.0	<1.0
16-Nov-2021	<20.0	6.82	<0.1	<1.0	<1.0
17-Nov-2021	<20.0	7.16	<0.1	<1.0	<1.0
24-Nov-2021	<20.0	5.92	<0.1	<1.0	<1.0
25-Nov-2021	<20.0	6.53	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.118

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	4.88	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	5.67	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	4.92	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	6.76	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	6.72	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	5.81	<0.1	<1.0	<1.0
30-Nov-2021	<20.0	6.61	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.119

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Nov-2021	<20.0	6.44	<0.1	<1.0	<1.0
02-Nov-2021	<20.0	6.88	<0.1	<1.0	<1.0
12-Nov-2021	<20.0	6.15	<0.1	<1.0	<1.0
13-Nov-2021	<20.0	4.63	<0.1	<1.0	<1.0
22-Nov-2021	<20.0	7.15	<0.1	<1.0	<1.0
23-Nov-2021	<20.0	4.68	<0.1	<1.0	<1.0
29-Nov-2021	<20.0	5.34	<0.1	<1.0	<1.0
30-Nov-2021	<20.0	6.36	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

December: 2021

Table: 14.120

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Dec-2021	<20.0	6.36	<0.1	<1.0	<1.0
07-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	6.33	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	4.12	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	7.45	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	4.63	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.25	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	5.18	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.121

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Dec-2021	<20.0	7.25	<0.1	<1.0	<1.0
07-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	7.15	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	5.88	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	7.25	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	6.19	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.58	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	6.78	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.122

Project	Lajkura OCP				
Monitoring Station	Khokelmal				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Dec-2021	<20.0	7.25	<0.1	<1.0	<1.0
07-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	7.15	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	5.88	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	7.25	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	6.19	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.58	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	6.78	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.123

Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	5.15	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	4.58	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.14	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	6.69	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	5.58	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	6.11	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	5.55	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	6.59	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	6.16	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	6.44	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	5.45	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.63	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	6.14	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	4.28	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	6.11	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	5.63	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.124

Table: 14.125

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	5.51	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.43	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	6.91	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.36	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	5.58	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	5.19	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	5.42	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	7.17	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.126

Project	Belpahar OCP				
Monitoring Station	South of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	5.14	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.64	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	4.90	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	6.62	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	4.48	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	6.62	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	5.12	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	5.32	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.127

Project	Kulda OCP				
Monitoring Station	North of CHP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Dec-2021	<20.0	6.82	<0.1	<1.0	<1.0
02-Dec-2021	<20.0	7.15	<0.1	<1.0	<1.0
08-Dec-2021	<20.0	6.81	<0.1	<1.0	<1.0
09-Dec-2021	<20.0	5.86	<0.1	<1.0	<1.0
16-Dec-2021	<20.0	6.56	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	6.28	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	5.81	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	6.83	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.128

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Dec-2021	<20.0	6.12	<0.1	<1.0	<1.0
02-Dec-2021	<20.0	6.49	<0.1	<1.0	<1.0
08-Dec-2021	<20.0	5.80	<0.1	<1.0	<1.0
09-Dec-2021	<20.0	6.26	<0.1	<1.0	<1.0
16-Dec-2021	<20.0	6.43	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.15	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	4.61	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	7.31	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.129

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Dec-2021	<20.0	4.86	<0.1	<1.0	<1.0
02-Dec-2021	<20.0	4.38	<0.1	<1.0	<1.0
08-Dec-2021	<20.0	5.66	<0.1	<1.0	<1.0
09-Dec-2021	<20.0	6.33	<0.1	<1.0	<1.0
16-Dec-2021	<20.0	5.96	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.38	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	6.41	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	6.82	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.130

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	5.48	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	5.68	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.55	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	6.18	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	5.93	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	6.42	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.131

Project	Garjanbahal OCP				
Monitoring Station	North West of Working Face (Tumulia)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Dec-2021	<20.0	7.52	<0.1	<1.0	<1.0
04-Dec-2021	<20.0	7.53	<0.1	<1.0	<1.0
10-Dec-2021	<20.0	6.16	<0.1	<1.0	<1.0
11-Dec-2021	<20.0	5.52	<0.1	<1.0	<1.0
20-Dec-2021	<20.0	6.36	<0.1	<1.0	<1.0
21-Dec-2021	<20.0	7.92	<0.1	<1.0	<1.0
27-Dec-2021	<20.0	5.13	<0.1	<1.0	<1.0
28-Dec-2021	<20.0	6.34	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.132

<i>Project</i>	Basundhara (W) OCP				
<i>Monitoring Station</i>	Sarangijharia Community Centre				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Dec-2021	<20.0	3.95	<0.1	<1.0	<1.0
02-Dec-2021	<20.0	4.55	<0.1	<1.0	<1.0
08-Dec-2021	<20.0	3.83	<0.1	<1.0	<1.0
09-Dec-2021	<20.0	4.55	<0.1	<1.0	<1.0
16-Dec-2021	<20.0	5.80	<0.1	<1.0	<1.0
17-Dec-2021	<20.0	5.36	<0.1	<1.0	<1.0
24-Dec-2021	<20.0	4.91	<0.1	<1.0	<1.0
25-Dec-2021	<20.0	5.53	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.133

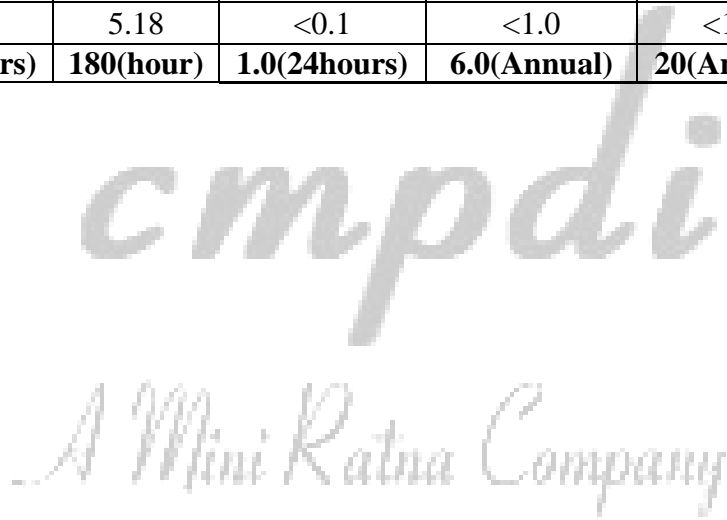
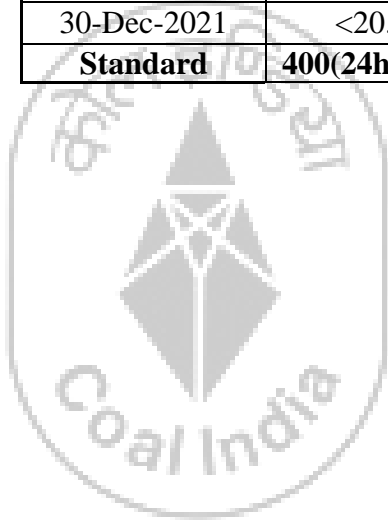
<i>Project</i>	Orient Mine No. 1 & 2				
<i>Monitoring Station</i>	VIP Guest House, IB Valley				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Dec-2021	<20.0	5.18	<0.1	<1.0	<1.0
07-Dec-2021	<20.0	5.92	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	5.57	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	4.95	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	6.36	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	6.62	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.41	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	6.11	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.134

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
06-Dec-2021	<20.0	6.36	<0.1	<1.0	<1.0
07-Dec-2021	<20.0	6.15	<0.1	<1.0	<1.0
13-Dec-2021	<20.0	6.33	<0.1	<1.0	<1.0
14-Dec-2021	<20.0	4.12	<0.1	<1.0	<1.0
22-Dec-2021	<20.0	7.45	<0.1	<1.0	<1.0
23-Dec-2021	<20.0	4.63	<0.1	<1.0	<1.0
29-Dec-2021	<20.0	5.25	<0.1	<1.0	<1.0
30-Dec-2021	<20.0	5.18	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

January: 2022

Table: 14.135

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jan-2022	<20.0	4.50	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	6.13	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	7.23	<0.1	<1.0	<1.0
15-Jan-2022	<20.0	5.46	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	7.56	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	4.91	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	3.92	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.136

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	4.86	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	7.52	<0.1	<1.0	<1.0
15-Jan-2022	<20.0	6.16	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	4.63	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	5.23	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.137

<i>Project</i>	Lajkura OCP				
<i>Monitoring Station</i>	Khokelmal				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	4.86	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	7.52	<0.1	<1.0	<1.0
15-Jan-2022	<20.0	6.16	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	4.63	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	5.23	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

Table: 14.138

<i>Project</i>	Lakhanpur OCP				
<i>Monitoring Station</i>	South of Quarry 6				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	4.58	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	5.88	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	6.02	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	3.15	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	7.15	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	3.91	<0.1	<1.0	<1.0
27-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.28	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.139

<i>Project</i>	Lakhanpur OCP				
<i>Monitoring Station</i>	South West of Quarry 6				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	6.06	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	7.27	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	4.53	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	6.66	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	3.69	<0.1	<1.0	<1.0
27-Jan-2022	<20.0	4.81	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	5.71	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.140

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	7.56	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	5.05	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.89	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	4.41	<0.1	<1.0	<1.0
27-Jan-2022	<20.0	5.32	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	6.07	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.141

Project	Belpahar OCP				
Monitoring Station	South of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	5.12	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	4.56	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	4.23	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	5.31	<0.1	<1.0	<1.0
27-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	4.73	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.142

Project	Kulda OCP				
Monitoring Station	North of CHP				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Jan-2022	<20.0	5.25	<0.1	<1.0	<1.0
04-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
10-Jan-2022	<20.0	7.23	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	3.93	<0.1	<1.0	<1.0
17-Jan-2022	<20.0	6.19	<0.1	<1.0	<1.0
18-Jan-2022	<20.0	5.82	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	7.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.143

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Jan-2022	<20.0	4.56	<0.1	<1.0	<1.0
04-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
10-Jan-2022	<20.0	5.86	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	4.63	<0.1	<1.0	<1.0
17-Jan-2022	<20.0	4.65	<0.1	<1.0	<1.0
18-Jan-2022	<20.0	4.82	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	6.02	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	7.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.144

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Jan-2022	<20.0	7.15	<0.1	<1.0	<1.0
04-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
10-Jan-2022	<20.0	4.05	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	3.53	<0.1	<1.0	<1.0
17-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
18-Jan-2022	<20.0	4.82	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	7.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.145

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	4.73	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	5.12	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	5.73	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	5.76	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	6.13	<0.1	<1.0	<1.0
27-Jan-2022	<20.0	4.72	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	3.81	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.146

<i>Project</i>	Garjanbahal OCP				
<i>Monitoring Station</i>	North West of Working Face (Tumulia)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
05-Jan-2022	<20.0	4.05	<0.1	<1.0	<1.0
06-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
12-Jan-2022	<20.0	5.12	<0.1	<1.0	<1.0
13-Jan-2022	<20.0	6.20	<0.1	<1.0	<1.0
19-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
20-Jan-2022	<20.0	5.82	<0.1	<1.0	<1.0
27-Jan-2022	<20.0	4.15	<0.1	<1.0	<1.0
28-Jan-2022	<20.0	6.26	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.147

<i>Project</i>	Basundhara (W) OCP				
<i>Monitoring Station</i>	Sarangijharia Community Centre				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Jan-2022	<20.0	7.15	<0.1	<1.0	<1.0
04-Jan-2022	<20.0	3.56	<0.1	<1.0	<1.0
10-Jan-2022	<20.0	4.12	<0.1	<1.0	<1.0
11-Jan-2022	<20.0	6.23	<0.1	<1.0	<1.0
17-Jan-2022	<20.0	6.08	<0.1	<1.0	<1.0
18-Jan-2022	<20.0	7.21	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	5.52	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	4.60	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.148

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jan-2022	<20.0	4.90	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	5.12	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	4.19	<0.1	<1.0	<1.0
15-Jan-2022	<20.0	5.63	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	7.05	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	6.15	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	4.92	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.149

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Jan-2022	<20.0	4.50	<0.1	<1.0	<1.0
08-Jan-2022	<20.0	6.13	<0.1	<1.0	<1.0
14-Jan-2022	<20.0	7.23	<0.1	<1.0	<1.0
15-Jan-2022	<20.0	5.46	<0.1	<1.0	<1.0
21-Jan-2022	<20.0	6.12	<0.1	<1.0	<1.0
22-Jan-2022	<20.0	7.56	<0.1	<1.0	<1.0
24-Jan-2022	<20.0	4.91	<0.1	<1.0	<1.0
25-Jan-2022	<20.0	3.92	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

February: 2022

Table: 14.150

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Rampur Sub Area (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Feb-2022	<20.0	7.26	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	6.51	<0.1	<1.0	<1.0
14-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
15-Feb-2022	<20.0	5.63	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	4.86	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	7.01	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	3.81	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.151

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	Khokelmal (Reported Only)				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Feb-2022	<20.0	6.82	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	4.96	<0.1	<1.0	<1.0
14-Feb-2022	<20.0	5.23	<0.1	<1.0	<1.0
15-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	4.88	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.61	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	7.22	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.152

Project	Lajkura OCP				
Monitoring Station	Khokelmal				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Feb-2022	<20.0	6.82	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	4.96	<0.1	<1.0	<1.0
14-Feb-2022	<20.0	5.23	<0.1	<1.0	<1.0
15-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	4.88	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.61	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	7.22	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.153

Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Feb-2022	<20.0	7.07	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	5.68	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	7.25	<0.1	<1.0	<1.0
12-Feb-2022	<20.0	4.88	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	5.26	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	6.15	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.15	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	6.26	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.154

Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Feb-2022	<20.0	5.34	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	7.01	<0.1	<1.0	<1.0
12-Feb-2022	<20.0	3.91	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	6.82	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	7.15	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	5.81	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.155

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Feb-2022	<20.0	4.02	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	5.56	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	3.89	<0.1	<1.0	<1.0
12-Feb-2022	<20.0	4.23	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	7.35	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	3.96	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	4.36	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	4.61	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.156

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	South of the Mine				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Feb-2022	<20.0	5.12	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	6.56	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
12-Feb-2022	<20.0	6.15	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	6.21	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	5.73	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	6.56	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.157

<i>Project</i>	Kulda OCP				
<i>Monitoring Station</i>	North of CHP				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Feb-2022	<20.0	5.53	<0.1	<1.0	<1.0
02-Feb-2022	<20.0	6.82	<0.1	<1.0	<1.0
09-Feb-2022	<20.0	4.73	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	5.60	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	5.34	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	6.54	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	3.96	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	4.46	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.158

Project	Kulda OCP				
Monitoring Station	South of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Feb-2022	<20.0	4.05	<0.1	<1.0	<1.0
02-Feb-2022	<20.0	3.91	<0.1	<1.0	<1.0
09-Feb-2022	<20.0	5.54	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	6.15	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	6.83	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	4.23	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.86	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	4.22	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.159

Project	Kulda OCP				
Monitoring Station	West of Working Face				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Feb-2022	<20.0	4.89	<0.1	<1.0	<1.0
02-Feb-2022	<20.0	6.41	<0.1	<1.0	<1.0
09-Feb-2022	<20.0	5.36	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	4.23	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	5.68	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	6.91	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	4.82	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.160

Project	Garjanbahal OCP				
Monitoring Station	Kaletpani Village				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Feb-2022	<20.0	6.81	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	3.96	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	3.88	<0.1	<1.0	<1.0
12-Feb-2022	<20.0	3.96	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	6.08	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	3.88	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	4.23	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	5.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.161

Project	Garjanbahal OCP				
Monitoring Station	North West of Working Face (Tumulia)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Feb-2022	<20.0	4.62	<0.1	<1.0	<1.0
04-Feb-2022	<20.0	6.59	<0.1	<1.0	<1.0
11-Feb-2022	<20.0	6.63	<0.1	<1.0	<1.0
12-Feb-2022	<20.0	7.69	<0.1	<1.0	<1.0
16-Feb-2022	<20.0	5.02	<0.1	<1.0	<1.0
17-Feb-2022	<20.0	4.87	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.12	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	6.13	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

Table: 14.162

Project	Basundhara (W) OCP				
Monitoring Station	Sarangijharia Community Centre				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
01-Feb-2022	<20.0	5.86	<0.1	<1.0	<1.0
02-Feb-2022	<20.0	3.96	<0.1	<1.0	<1.0
09-Feb-2022	<20.0	4.39	<0.1	<1.0	<1.0
10-Feb-2022	<20.0	3.88	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	4.86	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.01	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	4.91	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.163

Project	Orient Mine No. 1 & 2				
Monitoring Station	VIP Guest House, IB Valley				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Feb-2022	<20.0	3.88	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	4.73	<0.1	<1.0	<1.0
14-Feb-2022	<20.0	6.68	<0.1	<1.0	<1.0
15-Feb-2022	<20.0	6.56	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	4.71	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	6.62	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	5.56	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	6.12	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.164

Project	HBI Mine				
Monitoring Station	Rampur Sub Area				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Feb-2022	<20.0	7.26	<0.1	<1.0	<1.0
08-Feb-2022	<20.0	6.51	<0.1	<1.0	<1.0
14-Feb-2022	<20.0	7.23	<0.1	<1.0	<1.0
15-Feb-2022	<20.0	5.63	<0.1	<1.0	<1.0
18-Feb-2022	<20.0	4.86	<0.1	<1.0	<1.0
19-Feb-2022	<20.0	7.01	<0.1	<1.0	<1.0
25-Feb-2022	<20.0	3.81	<0.1	<1.0	<1.0
26-Feb-2022	<20.0	6.23	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

March: 2022

Table: 14.165

Project	Samleswari OCP				
Monitoring Station	Rampur Sub Area (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Mar-2022	<20.0	5.55	<0.1	<1.0	<1.0
08-Mar-2022	<20.0	5.81	<0.1	<1.0	<1.0
14-Mar-2022	<20.0	6.11	<0.1	<1.0	<1.0
15-Mar-2022	<20.0	5.47	<0.1	<1.0	<1.0
23-Mar-2022	<20.0	5.15	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	6.01	<0.1	<1.0	<1.0
30-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
31-Mar-2022	<20.0	6.86	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.166

Project	Samleswari OCP				
Monitoring Station	Khokelmal (Reported Only)				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Mar-2022	<20.0	5.29	<0.1	<1.0	<1.0
08-Mar-2022	<20.0	4.12	<0.1	<1.0	<1.0
14-Mar-2022	<20.0	5.77	<0.1	<1.0	<1.0
15-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
23-Mar-2022	<20.0	5.82	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.91	<0.1	<1.0	<1.0
30-Mar-2022	<20.0	5.26	<0.1	<1.0	<1.0
31-Mar-2022	<20.0	4.81	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.167

<i>Project</i>	Lajkura OCP				
<i>Monitoring Station</i>	Khokelmal				
<i>Date of sampling</i>	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
07-Mar-2022	<20.0	5.29	<0.1	<1.0	<1.0
08-Mar-2022	<20.0	4.12	<0.1	<1.0	<1.0
14-Mar-2022	<20.0	5.77	<0.1	<1.0	<1.0
15-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
23-Mar-2022	<20.0	5.82	<0.1	<1.0	<1.0
24-Mar-2022	<20.0	5.91	<0.1	<1.0	<1.0
30-Mar-2022	<20.0	5.26	<0.1	<1.0	<1.0
31-Mar-2022	<20.0	4.81	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)



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JOB NO.750001

Table: 14.168

Project	Lakhanpur OCP				
Monitoring Station	South of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Mar-2022	<20.0	7.36	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	7.21	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
12-Mar-2022	<20.0	5.89	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	5.15	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	6.18	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	5.45	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	5.71	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.169

Project	Lakhanpur OCP				
Monitoring Station	South West of Quarry 6				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	5.81	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
12-Mar-2022	<20.0	6.01	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	5.61	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	5.55	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	5.58	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	4.89	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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Table: 14.170

Project	Belpahar OCP				
Monitoring Station	East of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	7.12	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.01	<0.1	<1.0	<1.0
12-Mar-2022	<20.0	5.23	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	5.61	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	6.23	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	6.01	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	5.41	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

Table: 14.171

Project	Belpahar OCP				
Monitoring Station	South of the Mine				
Date of sampling	Ammonia (NH ₃)	Ozone (O ₃)	Lead (Pb)	Arsenic (As)	Nickel (Ni)
	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	(ng/m^3)	(ng/m^3)
03-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
04-Mar-2022	<20.0	5.14	<0.1	<1.0	<1.0
11-Mar-2022	<20.0	6.12	<0.1	<1.0	<1.0
12-Mar-2022	<20.0	7.15	<0.1	<1.0	<1.0
21-Mar-2022	<20.0	5.89	<0.1	<1.0	<1.0
22-Mar-2022	<20.0	5.19	<0.1	<1.0	<1.0
28-Mar-2022	<20.0	5.45	<0.1	<1.0	<1.0
29-Mar-2022	<20.0	5.71	<0.1	<1.0	<1.0
Standard	400(24hours)	180(hour)	1.0(24hours)	6.0(Annual)	20(Annual)

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JOB NO.750001

HALF YEARLY HEAVY METAL QUANTITY DATA

November 2021 & January 2022

Table: 14.172

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	West of the Mine				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
03-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.173

<i>Project</i>	Samleswai OCP				
<i>Monitoring Station</i>	South of the Mine				
Ozone (O ₃) (µg/m ³)	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-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
17-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
180(hour)	6.0(Annual)	20(Annual)	-	-	-

Table: 14.174

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	East of the Mine				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
03-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
18-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

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Table: 14.175

<i>Project</i>	Samleswari OCP				
<i>Monitoring Station</i>	South-East of the Mine				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
03-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
18-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



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Table: 14.176

Project	Lajkura 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)
03-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
21-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.177

Project	Lajkura OCP				
Monitoring Station	Near South Coal Stock				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
03-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
21-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.178

Project	Lajkura 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)
03-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
21-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.179

<i>Project</i>	Lilari OCP				
<i>Monitoring Station</i>	Near Lilari Magazine House				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
08-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
22-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



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Table: 14.180

<i>Project</i>	Lakhanpur OCP				
<i>Monitoring Station</i>	Near Lilari Nallah Pump House				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
08-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
22-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.181

<i>Project</i>	Lakhanpur OCP				
<i>Monitoring Station</i>	Near Quarry 3				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
08-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
22-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

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Table: 14.182

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	Near Magazine House				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
09-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
27-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.183

<i>Project</i>	Belpahar OCP				
<i>Monitoring Station</i>	Near Central Workshop				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
09-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
28-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0 (Annual)	20 (Annual)	-	-	

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Table: 14.184

<i>Project</i>	Basundhara (W) OCP				
<i>Monitoring Station</i>	West of Coal Stock				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
12-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.185

<i>Project</i>	Basundhara (W) OCP				
<i>Monitoring Station</i>	North of the Sardega Railway Siding				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
12-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.186

<i>Project</i>	Basundhara (W) OCP				
<i>Monitoring Station</i>	South West of Working face Gopalpur Village, Near CMPDI Camp				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
12-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

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Table: 14.187

<i>Project</i>	Kulda OCP				
<i>Monitoring Station</i>	External CT Road				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(μg/m ³)	(μg/m ³)
09-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-



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	Garjanbahal OCP				
Monitoring Station	220 kV Substation				
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)
13-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0 (Annual)	20 (Annual)	-	-	-

Table: 14.188

Table: 14.189

Project	Garjanbahal OCP				
Monitoring Station	South West of Coalface				
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)
13-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022					
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.190

Project	Garjanbahal OCP				
Monitoring Station	KAN-1 Near Coal Sampling Lab				
Date of sampling	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
05-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
31-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)		-	-

Table: 14.191

<i>Project</i>	Orient Mine No. 1 & 2				
<i>Monitoring Station</i>	Orient Mine No.2				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
15-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.192

<i>Project</i>	Orient Mine No. 3				
<i>Monitoring Station</i>	Orient Mine No. 3				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
15-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.193

<i>Project</i>	HBI Mine				
<i>Monitoring Station</i>	HBI Mine				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
15-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.194

<i>Project</i>	HBI Mine				
<i>Monitoring Station</i>	Bundia Colony Pump House				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
15-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.195

<i>Project</i>	HBI Mine				
<i>Monitoring Station</i>	Rampur Officers Guest House				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
15-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-

Table: 14.196

<i>Project</i>	Orient Mine No. 4				
<i>Monitoring Station</i>	Orient Mine No. 4				
<i>Date of sampling</i>	Arsenic (As)	Nickel (Ni)	Mercury (Hg)	Chromium (Cr)	Cadmium (Cd)
	(ng/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(µg/m ³)
15-Nov-2021	<1.0	<1.0	<1.0	<0.1	<0.1
29-Jan-2022	<1.0	<1.0	<1.0	<0.1	<0.1
Standard	6.0(Annual)	20(Annual)	-	-	-