MONTHLY ENVIRONMENTAL STATUS REPORT (SEPTEMBER 2022)

FOR

PARAS POWER & COAL BENEFICIATION LIMITED (2.5 MTPA – WET TYPE COAL WASHERY) LOCATED AT GHUTKU VILLAGE, TAKHATPUR TEHSIL BILASPUR DISTRICT, CHHATTISGARH

PROJECT PROPONENT:



M/s PARAS POWER & COAL BENEFICIATION LIMITED

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Foreword

The protection of environment plays a crucial role in maintaining the local environment quality for any Industrial and mining activity. Hence compliance of the statutory requirements becomes very important to conserve the ecological balance within and surrounding areas. Therefore, environment protection is becoming a prerequisite for sustainable development. In line with this requirement, the management of **M/s Paras Power & Coal Beneficiation Limited** has adopted a corporate responsibility of environment protection.

In order to comply with the Environment protection act, to fulfill statutory requirements and to be in tune with Environmental Preservation and Sustainable Development, **M/s Paras Power & Coal Beneficiation Limited,** has done Monthly environmental monitoring of all the environmental parameter to minimize any Environmental issues related to 2.5 MTPA Wet Type Coal Washery located in Village Ghutku, Tehsil Takhatpur and District Bilaspur (C.G.).

This document presents the Monthly Environmental Status Report for **September 2022** as part of the statutory requirements.

The co-operation extended by the Staff of **M/s Paras Power & Coal Beneficiation Limited** during the work execution period is gratefully acknowledged.

1.1 Introduction

M/s Paras Power & Coal Beneficiation Limited has established a Wet Type Coal Washery Project with capacity of 2.5 MTPA at Village Ghutku, Tehsil Takhatpur and District Bilaspur (C.G.).

Coal beneficiation is the process for cleaning & reducing ash content in the coal, thus improving the quality of coal. The environmental clearance was granted to the project by Ministry of Environment, Forest and Climate Change, Government of India, New Delhi vide letter No J-11015/70/2016-IA.II (M), dated 22/11/2018.

M/s Paras Power & Coal Beneficiation Limited has carried out monthly environmental monitoring for each month and the results of the monitoring are given in following paragraphs for September 2022.

1.2 Meteorological Data Recorded at IMD, Raipur

Secondary information for the meteorological conditions was collected from the nearest IMD station at Raipur. Pressure, temperature, relative humidity, rainfall, wind speed and direction are measured twice a day viz., at 0830 and 1730 hr. The meteorological data, rainfall data, climatological data and surface meteorology for the study area collected from IMD Raipur for a 30 year period from 1981 to 2010 is presented in Table-1, Table-2 and Table-3 respectively.

Analysis of IMD Data Raipur

The Indian Meteorological Department records the data twice a day viz. 0830 hr and 1730 hr.

• Temperature & Relative Humidity

The winter seasons sets in towards end of November and continues till mid of February. The last week of December to first week of January is the coolest period of the year, with lowest minimum temperature falling as low as 8.6°C or lower. Temperature gradually rises after February. March to June is the summer season. This is also referred to as Pre-monsoon season. During this time the highest

maximum temperature may rise to 45.2° C. From the post monsoon of October, the mean temperature falls gradually marking the onset of the winter season. The average humidity, during the monsoon season is about 52% - 87%. The humidity in Pre-monsoon (March- May) is about 22-44%. Generally, the weather during the other seasons is more or less dry and in the comfortable zone.

Rainfall

Annual rainfall of an average is 1193.3 mm. The monsoon starts in end of June and continues till September. The maximum amount of rainfall and maximum rainy days generally occur in July, August and September months (**Table 2**). The rainfall is the highest in the southern parts and decreases gradually towards the northern part of the Barakar catchment.

TABLE- 1	
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Month	Pressure (hPa)		Temperature (°C) Mean		Relative Humidity (%)	
	08.30	17.30	Max	Min	08.30	17.30
January	982.5	979.1	31.5	8.6	66	47
February	980.4	976.5	34.8	11.3	55	35
March	978.3	973.9	39.8	15.7	44	28
April	975	970	43.2	19.7	38	22
May	971.2	966.6	45.2	22.2	42	27
June	967.7	964	44.4	21.6	65	52
July	968.2	965.4	36.1	21.2	85	76
August	968.9	966.1	33.7	21.7	87	79
September	972.9	969.8	34.4	21.3	82	73
October	977.7	974.4	34.7	16.8	70	59
November	981.6	977.9	32.5	11.6	63	51
December	983.2	979.7	30.8	8.9	63	49
Range	964-9	83.2	8.6-4	45.2	22-	-87

CLIMATOLOGICAL DATA FROM IMD, RAIPUR

<u> TABLE - 2</u>

	Cloud Cover (oktas)				Rainfall (mm)
Month	All Clouds Low		Low C	Clouds	Monthly Average
	08.30	17.30	08.30	17.30	wonthy Average
January	1.9	2.0	0.6	0.6	13.7
February	1.6	1.7	0.5	0.6	13.4
March	1.7	2.1	0.5	0.8	11.9
April	1.6	2.7	0.4	1.5	8.9
May	2.3	3.7	0.6	2.1	30.3
June	5.1	5.7	2.1	3.1	221.1
July	6.7	6.8	3.6	3.9	326.9
August	6.7	6.8	3.7	3.8	299.9
September	4.9	5.8	2.2	3.0	200.5
October	2.6	3.5	0.9	1.5	50.4
November	1.9	2.1	0.5	0.6	9.8
December	1.8	2.1	0.3	0.4	6.6
Average					1193.3

CLOUD & RAINFALL DATA FROM IMD, RAIPUR

• Cloud Cover

During winter and summer seasons, it was observed that the sky was very clear. In the summer season, light clouds were observed in the evenings, with no clouds in the mornings. During monsoon season, both in the mornings and evenings the sky was observed to be generally cloudy.

• Wind Speed / Direction

Winter & Pre-monsoon (summer) season Wind Rose diagrams (IMD, Raipur) are shown in **Figure-1** and **2**.

<u> TABLE - 3</u>

SUMMARY OF WIND PATTERN – IMD RAIPUR

Season	First Predominant Winds		Second Pro Wi	edominant nds	Calm Condition	
	0830	1730	0830	1730	0830	1730
Bro Monsoon	N	W	E	NW	250/	1 5 0/
Pre-ivionsoon	22%	27%	12%	20%	2370	15%
Monsoon	W	W	SW	SW	100/	17%
WOIISOON	34%	25%	17%	21%	10/0	
Post-	N	N	NW	NW	270/	270/
Monsoon	42%	32%	11%	9%	5270	5770
Mintor	N	N	NW	W	2.40/	220/
winter	56%	29%	10%	14%	2470	55%
ممرم	N	N	W	W	2/10/	2/10/
Annuai	29%	20%	14%	19%	24%	24%





WINDROSE FOR WINTER SEASON IMD RAIPUR (8.30 Hrs and 17.30 Hrs)



1.3 Air Quality Monitoring

Regular monitoring of environmental parameters is of immense importance to assess the status of environment. With the knowledge of baseline conditions, the monitoring program will serve as an indicator for any deterioration in environmental conditions due to industrial operation. Suitable mitigation steps will be taken in time to safeguard the environment, based on monitoring reports. Monitoring is important in the control of pollution since the efficiency of control measures can only be determined by monitoring.

In order to find out the impact of plant activity on sensitive receptors, it is necessary to monitor Environmental Quality to know the level of concentrations of pollutants within and around the plant area.

1.3.1 Ambient Air Quality Monitoring

Ambient Air Quality was monitored at four locations within plant premises and four locations in nearby villages.

The sampling stations are selected at the above-mentioned locations, in downwind and upwind directions of the industry. Regular monitoring has been carried out for SPM, RPM, SO₂ and NO_x at above Ambient Air Quality Monitoring (AAQM) locations.

Frequency of Sampling

Ambient air quality monitoring was carried out on 24 hourly on Monthly basis for the month of September 2022.

Duration of Sampling

The duration of sampling for PM10, PM2.5, SO_2 and NO_x was for twenty-four hourly. Data is compared with the standards mentioned in the Gazette Notification of the Central Pollution Control Board (CPCB) Notification 16th Nov. 2009.

Methods and Instruments used for Sampling

The air samples were analyzed as per methods specified by Central Pollution Control Board (CPCB).

The levels of Suspended Particulate Matter, Respirable Particulate Matter, Sulphur Dioxide (SO₂), and Oxides of Nitrogen (NO_X) were monitored for identifying the impact on surrounding area. PM₁₀ and PM_{2.5} were collected with the help of Respirable particulate sampler and Fine particulate sampler operating 24 hours and is computed by gravimetric method. Due to the high flow rate of air, the vacuum is formed into the hopper region of sampler which is tapped by providing a nozzle in the hopper which sucks the ambient air for sampling SO₂ and NO_X. The gases were measured by wet chemical method and were analyzed by colorimetrical. The measurement techniques used for various pollutants and other details are given in **(Table 4)**.

TABLE-4

S. No.	Parameter	Technique	Technical	Minimum Detection
			Protocol	limit (µg/m³)
1.	Respirable Particulate	Respirable Dust	IS-5182	5
	Matter, PM10	Sampler (Gravimetric	(Part – IV)	
		Method)		
2.	Fine Particulate	Fine Particulate	IS-5182	-
	Matter, PM2.5	Sampler (Gravimetric	(Part-IV)	
		Method)		
3.	Sulphur Dioxide	Improved West and	IS-5182	4
		Geake Method	(Part – II)	
4.	Oxide of Nitrogen	Jacob & Hochheiser	IS-5182	4
		Modified Method	(Part – VI)	

MEASUREMENT TECHNIQUES FOR VARIOUS POLLUTANTS

1.3.2 Ambient Air Quality

The ambient air quality monitoring was carried out at 4 locations in the Plant premises and 4 locations in the nearby villages in upwind, downwind and crosswind directions of the coal washery project. The air quality monitoring was conducted for PM_{10} , $PM_{2.5}$, SO_2 and NO_x in the month of September 2022.

The results of ambient air quality monitoring for September 2022 are given in **Table 5** below:

Overall, the ambient air concentrations of PM_{10} , $PM_{2.5}$, SO_2 and NO_x were observed to be well within the limits of concentrations promulgated by CPCB, New Delhi.

National Ambient Air Quality Standard:

- PM₁₀ (RPM): 100 μg/m³,
- PM2.5: 60 μg/m³
- SO_2 : 80 μ g/m³ and
- NO_x : 80 μg/m³

TABLE -5

AMBIENT AIR QUALITY MONITORING RESULT

Period – September 2022

(24 Hrs sampling)

SL No.	Sampling Location	Sampling Date	ΡΜ10 μg /m ³	PM2.5 μg /m ³	SO2 µg /m³	NOx μg /m³		
Core Zone (Sept 2022)								
1.	Near Entry Gate	09.09.2022	59.6	25.4	8.1	17.4		
2.	Near Electrical Room	09.09.2022	62.9	25.7	8.4	18.3		
3.	Near Weigh Bridge	09.09.2022	64.2	23.1	7.6	17.9		
4.	Near Washery Back	09.09.2022	65.7	26.9	9.0	18.5		
Buffer	Zone (Sept 2022)							
1.	Turkadih Village	10.09.2022	50.4	18.6	6.0	12.9		
2.	Devari Village	10.09.2022	50.4	19.8	6.8	10.7		
3.	Ghutku Village	10.09.2022	51.5	18.8	6.9	11.2		
4.	Karhipara Village	10.09.2022	54.1	18.1	6.1	12.0		
NAAQ Standards 100 60 80 80								
Remar	k-All above results are wi	ithin National Amb	ient Air Qualit	v standards				

1.4 Noise Environment

In order to maintain this statutory requirement noise monitoring has been carried out in washery premises.

Identification of sampling locations

Noise at different noise generating sources has been identified based on the activities in the plant area. The noise levels at each location were recorded for 24 hours.

Instrument used for monitoring

Noise levels were measured using integrated sound level meter manufactured by Lutron made in Taiwan (Model no. SL-4001). This instrument is capable of measuring the Sound Pressure Level (SPL), Leq.

Method of Monitoring

Sound Pressure Level (SPL) measurements were monitored at five locations in the plant (Core Zone) & nearby villages (Buffer Zone). The readings were taken for every hour for 24 hours. The day noise levels have been monitored during 6 am to 10 pm and night levels during 10 pm to 6 am. Noise levels monitored during day and night at all locations were found to be below the stipulated standard of CPCB for Industrial area as 75dB(A) for day and 70dB(A) night, as given in **Table 6.**

TABLE 6:

NOISE MONITORING REPORT

Date of Monitoring: 09th Sept 2022

		RESULT Leq,	dB(A)
SL. NO.	LOCATION	DAY	NIGHT
1.	Project Site	66.8	40.2
2.	Turkadih Village	50.4	38.5
3.	Devari Village	51.2	38.9
4.	Ghutku Village	52.6	38.4
5.	Karhipara Village	50.1	36.9
Noise Stand	dards		
Residential	Area	55	45
Industrial A	rea	75	70

1.5 Water Quality Monitoring

The purpose of the monitoring is to identify the impact of industrial activities on water quality.

The quality of ground water was assessed by collecting samples from bore wells within the plant premises and nearby villages during for September 2022. The collected samples were analysed as per Drinking water standards (IS: 10500:2012). Samples of surface water (Arpa River; upstream & Downstream) were also collected

and analysed in the laboratory. The Ground water analysis results are given in Table

7 to 10 and the analysis results for effluent samples are given in Table 11 & 12.

<u> TABLE 7:</u>

GROUND WATER QUALITY RESULTS

Sample Category: Ground Water

Sample Location: Project Site (Bore well Water)

Date of Sampling: 09.09.2022

Sr.	Test Parameter	Unit	Test Method	As per IS 10500: 2012 (Drinking Water - Specification)		Test Result
No				Acceptable	*Permissible	
				Limit	Limit	
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 23 ⁰ C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	724
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.61
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	Colorless
5.	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.29
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	427
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.26
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.006
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	81.3
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO₃)	mg / I	IS 3025 (Part 23)	200	600	179
14	Total hardness (as CaCO₃)	mg / I	IS 3025 (Part 21)	200	600	201
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	57.0
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	29.9
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	50.1
18	Nitrates (as NO₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	5.2
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.04
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	0.08
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	0.003
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.005
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.04

Paras Power & Coal Beneficiation Limited

Environmental Status Report, September 2022

Sr.	Test Parameter	Unit	Test Method	As per IS 1 (Drinkin Specifi	0500: 2012 g Water - ication)	Test Result
NO				Acceptable Limit	*Permissible Limit	
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.2
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp. (as C₀H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/l	USEPA : 550	-	-	< 0.04
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Absent

TABLE 8

GROUND WATER QUALITY RESULTS

Sample Category: Ground Water

Sample Location: Ghutku Village

Date of Sampling: 09.09.2022

				As per IS 10500: 2012 (Drinking Water -		
Sr.						
No	Test Parameter	Unit	Test Method	Specif	ication)	Test Result
				Acceptable	*Permissible	
				Limit	Limit	
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.21 at 25°C
2.	EC at 25°C	µs/cm	IS 3025 (Part 14)	-	-	669
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	< 1.0
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	<2
5.	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.28
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	389
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.26
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	69.8
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO₃)	mg / I	IS 3025 (Part 23)	200	600	173.2
14	Total hardness (as CaCO₃)	mg / I	IS 3025 (Part 21)	200	600	231
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	62.5
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	25.7
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	55.4
18	Nitrates (as NO ₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	7.1
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.04
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	< 0.05
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	< 0.005
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.2
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.04
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp.	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001

Paras Power & Coal Beneficiation Limited

Environmental Status Report, September 2022

Sr. No	Test Parameter	Unit	Test Method	As per IS 1 (Drinkin Specifi Acceptable Limit	0500: 2012 g Water - ication) *Permissible Limit	Test Result
	(as C ₆ H₅OH)					
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.03
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/l	USEPA : 550	-	-	< 0.001
34	Total coliform	MPN/10 0 ml	IS 1622	Absent	Absent	Absent

<u> TABLE 9:</u>

GROUND WATER QUALITY RESULTS

Sample Category : Ground Water

Sample Location : Ghanpara Village

Date of Sampling: 09.09.2022

				As per IS 10500: 2012 (Drinking Water -		
Sr.	Test Parameter	Unit	Test Method	Specif	ication)	Test Result
NO				Acceptable	*Permissible	
				Limit	Limit	
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 25°C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	492
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	< 1.0
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	Agreeable
5.	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.30
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	410
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.25
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	76.4
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO₃)	mg / I	IS 3025 (Part 23)	200	600	211
14	Total hardness (as CaCO₃)	mg / I	IS 3025 (Part 21)	200	600	239
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	66.5
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	14.8
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	42.1
18	Nitrates (as NO₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	< 5.0
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	0.06
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	< 0.001
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.005
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03

Paras Power & Coal Beneficiation Limited

Environmental Status Report, September 2022

Sr. No	Test Parameter	Unit	Test Method	As per IS 1 (Drinkin Specifi Acceptable	0500: 2012 g Water - ication) *Permissible	Test Result
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp. (as C₀H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/l	USEPA: 550	-	-	< 0.02
34	Total coliform	MPN/10 0 ml	IS 1622	Absent	Absent	< 2

TABLE 10:

GROUND WATER QUALITY RESULTS

Sample Category: Ground Water

Sample Location : Turkadih Village

Date of Sampling: 09.09.2022

				As per IS 1	.0500: 2012	
Sr				(Drinkin	g Water -	
No	Test Parameter	Unit	Test Method	Specif	ication)	Test Result
NO				Acceptable	*Permissible	
				Limit	Limit	
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 23 ⁰ C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	610
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.07
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	<1
5.	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.21
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	412
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.6
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	61.5
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO₃)	mg / I	IS 3025 (Part 23)	200	600	285
14	Total hardness (as CaCO₃)	mg / I	IS 3025 (Part 21)	200	600	271
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	60.3
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	24.1
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	35.4
18	Nitrates (as NO ₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	< 5.0
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	<0.05
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	0.006
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.005
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp.	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001

Paras Power & Coal Beneficiation Limited

Environmental Status Report, September 2022

Sr. No	Test Parameter	Unit	Test Method	As per IS 1 (Drinkin Specifi Acceptable	Test Result	
				Limit	Limit	
	(as C ₆ H₅OH)					
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/l	USEPA : 550	-	-	< 0.01
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Absent

<u>TABLE 11:</u>

Sample Category : Surface Water

Sample Particulars

culars : Upstream of Arpa River, Near Kachhar (SW)

Date of Sampling: 09.09.2022

Sr.	T	11		As per IS 10500: 2012 (Drinking Water - Specification)		To at Do suit
No	lest Parameter	Unit	lest Niethod	Specifi	ication)	Test Result
				Acceptable	*Permissible	
				Limit	Limit	7.44 . 2200
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 23°C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	509
3.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	7.1
4.	DO	mg/l	-	-	-	5.9
5.	BOD	mg/l	-	-	-	11.0
6.	COD	mg/l	-	-	-	22.9
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.06
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	315
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.56
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	19.6
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO₃)	mg / I	IS 3025 (Part 23)	200	600	92.6
14	Total hardness (as CaCO₃)	mg / I	IS 3025 (Part 21)	200	600	181.32
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	47.1
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	14.8
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	42
18	Nitrates (as NO₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	6.1
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	<0.03
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	0.005
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.003
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1
30	Mineral Oil	 mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp. (as C₀H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001
32	Anionic	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001

Sr. No	Test Parameter	Unit	Test Method	As per IS 10500: 2012 (Drinking Water - Specification) Acceptable Limit Limit		Test Result
	detergents					
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/l	USEPA : 550	-	-	< 0.03
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Present

<u>TABLE 12:</u>

Sample Category : Surface Water

Sample Particulars : Downstream of Arpa River, Near Kachhar (SW)

Date of Sampling: 09.09.2022

Sr. No	Test Parameter	Unit	Test Method	As per IS 10500 : 2012 (Drinking Water - Specification)		Test Result
				Acceptable Limit	*Permissible Limit	
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.28 at 23°C
2.	EC at 25°C	µs/cm	IS 3025 (Part 14)	-	-	565
3.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	6.2
4.	DO	mg/l	-	-	-	5.9
5.	BOD	mg/l	-	-	-	10.2
6.	COD	mg/l	-	-	-	20.4
7.	lron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.06
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	341
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.6
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	25.6
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO₃)	mg / I	IS 3025 (Part 23)	200	600	110
14	Total hardness (as CaCO₃)	mg / I	IS 3025 (Part 21)	200	600	171.2
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	40.9
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	15.7
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	49.8
18	Nitrates (as NO ₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	9.10
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	<0.03

Paras Power & Coal Beneficiation Limited

Environmental Status Report, September 2022

Sr.	Test Parameter	Unit	Unit Test Method		As per IS 10500 : 2012 (Drinking Water - Specification)		
				Acceptable Limit	*Permissible Limit		
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005	
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001	
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001	
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01	
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	0.005	
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.003	
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1	
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03	
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1	
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001	
31	Phenolic comp. (as C₀H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001	
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001	
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/I	USEPA : 550	-	-	< 0.03	
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Present	

MONITORING REPORT



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TEST CERTIFICATE

ISSUED TO: M/s Paras Power & Coal Ben (2.5 MTPA Coal Washery) Village: Ghutku, Tehsil: Takh	Report No. Report Issue Date	: W-	110922-22 09.2022		
Sample Registration Date	:11.09.2022	Analysis Starting Date	. As	11 00 2022	
Quantity received	: 2 L	Analysis Completion Date	:	16.09.2022	
Sample Location	: 09.09.2022 : Project Site (BW Water)	Tests required Sampled by	:	As per Offer Mr. Vikas	

TEST RESULTS As per IS 10500: 2012 (Drinking Water - Specification) Sr. NoTest Parameter Unit **Test Method Test Result** Acceptable *Permissible Limit Limit pH value 1. IS 3025 (Part 11) 6.5 to 8.5 No relaxation 7.11 at 23°C 2. EC at 25°C μs/cm IS 3025 (Part 14) 724 3. Turbidity NTU IS 3025 (Part 10) 1 5 0.61 4. Apparent colour Hazen IS 3025 (Part 4) 5 Colorless 15 5. Odour IS 3025 (Part 5) Agreeable Agreeable Agreeable 6. Taste IS 3025 (Part 8) -Agreeable Agreeable Agreeable 7. Iron (as Fe) mg/I IS 3025 (Part 2) 0.3 No relaxation 0.29 Total dissolved 8. mg/l IS 3025 (Part 16) 500 2000 427 solids (TDS) 9. Fluoride (as F) mg/I IS 3025 (Part 60) 1.0 1.5 0.26 10 Cyanide (as CN) mg/I IS 3025 (Part 27) 0.05 No relaxation < 0.006 11 Chlorides (as CI) mg/I IS 3025 (Part 32) 250 1000 81.3 12 **Residual chlorine** IS 3025 (Part 26) mg/l 0.2 1 < 0.1 Total alkalinity (as 13 IS 3025 (Part 23) mg/l200 600 179 CaCO₃) Total hardness (as 14 IS 3025 (Part 21) mg/l200 600 201 CaCO₃) Calcium (as Ca) mg / I IS 3025 (Part 40) 75 200 57.0 15 Magnesium (as Mg) mg/I IS 3025 (Part 46) 30 100 29.9 16 Sulphate (as SO₄) IS 3025 (Part 24) 400 17 mg/l 200 50.1 IS 3025 (Part 34) 45 No relaxation 5.2 18 Nitrates (as NO₃) mg/I < 0.04 IS 3025 (Part 2) 0.05 1.5 19 Copper (as Cu) mg/l 0.3 0.08 mg/l IS 3025 (Part 2) 0.1 20 Manganese (as Mn) < 0.0005 21 Mercury (as Hg) mg/IIS 3025 (Part 2) 0.001 No relaxation IS 3025 (Part 2) 0.003 No relaxation < 0.001 Cadmium (as Cd) mg/I 22 < 0.001 Selenium (as Se) mg/IIS 3025 (Part 2) 0.01 No relaxation 23 Arsenic (as As) mg/l IS 3025 (Part 2) 0.01 0.05 < 0.01 24 IS 3025 (Part 2) 0.03 0.2 0.003 25 Aluminium (as Al) mg/l0.01 No relaxation < 0.005 26 Lead (as Pb) mg/l IS 3025 (Part 2)

Laboratory GT-20, Sector 117, Norda Gautam Buch Nagar, 201301 Branch Office HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE Excepted faboratory@gmail.com, mis@nordatabs.com W: www.haidatabs.com



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C N.	Test Parameter	Unit	Test Method	As per IS 2 (Drinking Wate	L0500: 2012 er - Specification)	- Test Result
Sr. No				Acceptable Limit	*Permissible Limit	
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.04
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.2
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp. (as C ₆ H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001
33	Polyneuclear aromatic hyd rocarbon (PAH)	μg/l	USEPA : 550	-	-	< 0.04
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Absent

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. This test report will not be used for any publicity/legal purpose.

5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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MoEF & CC (Minister of Environment, Forest & Climate Change) Recognized Laboratory.

TEST CERTIFICATE

ISSUED TO:		Report No. :	W-11	0922-23	
M/s Paras Power & Coal Bene (2.5 MTPA Coal Washerv)	Report Issue Date	16.09.	2022		
Village: Ghutku, Tehsil: Takha	tpur & District: Bilaspur	Reference :	As pe	r offer	
Sample Registration Date	:11.09.2022	Analysis Starting Date	:	11.09.2022	
Quantity received	: 2 L	Analysis Completion Date	:	16.09.2022	
Sample Collection date : 09.09.2022		Tests required	:	As per Offer	
Sample Location	: Ghutku Village (GW)	Sampled by	:	Mr. Vikas	

rest	RESU	LTS

.

				As per IS 1	0500: 2012	
Sr.	Test Parameter	Unit	Test Method	(Drinking Water	r - Specification)	Test Besult
No	reservaranceer	Offic	restimethod	Acceptable	*Permissible	rest Result
			Construction of the second	Limit	Limit	
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.21 at 25°C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	669
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	< 1.0
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	<2
5.	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.28
0	Total dissolved	mg / 1	IS 2025 (Dart 16)	500	2000	290
8.	solids (TDS)	mg / i	15 5025 (Part 10)	500	2000	202
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.26
10	Cyanide (as CN)	mg/l	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	69.8
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
42	Total alkalinity (as	ma / 1	IS 2025 (Part 22)	200	600	173.2
13	CaCO₃)	ing / i	15 5025 (Fait 25)	200	000	1/5.2
14	Total hardness (as	mg / 1	IS 3025 (Part 21)	200	600	231
14	CaCO ₃)	ing / i	15 5025 (Fart 21)	200		201
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	62.5
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	25.7
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	55.4
18	Nitrates (as NO ₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	7.1
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.04
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	< 0.05
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg/I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg/I	IS 3025 (Part 2)	0.03	0.2	< 0.005
26	Lead (as Pb)	mg/I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001

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TEST CERTIFICATE

Sr.	Test Parameter	Unit	Test Method	As per IS (Drinking Wate		
				Acceptable Limit	*Permissible	- Test Result
21	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	(0)
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.2
29	Boron (as B)	mg/I	IS 3025 (Part 2)	0.5	1.0	
30	Mineral Oil	mg / I	IS 3025 (Part 20)	0.5	1.0	< 0.1
	Phenolic comp		13 3023 (Part 39)	0.5	No relaxation	< 0.001
31	(as C ₆ H ₅ OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001
32	Anionic detergents	mg/I	IS 13428 (Annex K)	0.2	1.0	
	Polyneuclear	0,		0.2	1.0	< 0.03
33	aromatic hydrocarbon (PAH)	μg/l	USEPA : 550	-	-	< 0.001
34	Total coliform	MPN/100 ml	IS 1622	Absent	Absent	Absent

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. This test report will not be used for any publicity/legal purpose.

5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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TEST CERTIFICATE

ISSUED TO: M/s Paras Power & Coal Bene (2.5 MTPA Coal Washery) Village: Ghutku, Tehsil: Takha	ficiation Limited tpur & District: Bilaspur	Report No. Report Issue Date Reference	: W-110 : 16.09.2 : As pe	922-24 2022 r offer
Sample Registration Date	:11.09.2022	Analysis Starting Date	:	11.09.2022
Quantity received	: 2 L	Analysis Completion Date	:	16.09.2022
Sample Collection date	: 09.09.2022	Tests required	:	As per Offer
Sample Location	: Ghanpara Village (GW)	Sampled by	:	Mr. Vikas

TEST RESULTS

5-				As per IS 1	0500: 2012 r - Specification)	
Sr. No	Test Parameter	Unit	Test Method	Acceptable	*Permissible Limit	Test Result
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 25°C
2.	EC at 25°C	µs/cm	IS 3025 (Part 14)	-	-	492
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	< 1.0
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	Agreeable
5.	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.30
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	410
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.25
10	Cvanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	76.4
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO ₂)	mg / I	IS 3025 (Part 23)	200	600	211
14	Total hardness (as	mg / I	IS 3025 (Part 21)	200	600	239
15	Calcium (as Ca)	mg/l	IS 3025 (Part 40)	75	200	66.5
16	Magnesium (as Mg)	mg/l	IS 3025 (Part 46)	30	100	14.8
17	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24)	200	400	42.1
18	Nitrates (as NO ₃)	mg/l	IS 3025 (Part 34)	45	No relaxation	< 5.0
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	0.06
21	Mercury (as Hg)	mg/l	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
~~		mg / 1	IS 3025 (Part 2)	0.01	No relaxation	< 0.001

Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301 Branch Office : HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE E: noida laboratory@gmail.com info@noidalabs.com W.: www. noidalabs.com



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TEST CERTIFICATE

Sr.	Test Parameter		Test Method	As per IS 1 (Drinking Wate	As per IS 10500: 2012 (Drinking Water - Specification)		
No	Test Parameter	Unit		Acceptable Limit	*Permissible Limit	TEST RESULT	
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01	
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	< 0.001	
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.005	
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1	
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03	
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1	
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001	
31	Phenolic comp. (as C ₆ H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001	
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001	
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/I	USEPA: 550	-	-	< 0.02	
34	Total coliform	MPN/100 ml	IS 1622	Absent	Absent	< 2	

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. This test report will not be used for any publicity/legal purpose.

5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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TEST CERTIFICATE

ISSUED TO: M/s Paras Power & Coal Beng (2.5 MTPA Coal Washery) Village: Ghutku, Tehsil: Takh	eficiation Limited atpur & District: Bilaspur	Report No. : Report Issue Date : Reference :	W-110 16.09. As pe	0922-25 2022 r offer
Comple Designation Data		Anchesia Charting Data		44.00.2022
Quantity received	: 11.09.2022 : 2 L	Analysis Starting Date Analysis Completion Date	:	16.09.2022
Sample Collection date	: 09.09.2022	Tests required	:	As per Offer
Sample Location	: Turkadih Village (GW)	Sampled by	:	Mr. Vikas

TEST RESULTS

				As per IS 10 (Drinking Water		
Sr. No	Test Parameter	Unit	Test Method	Acceptable Limit	*Permissible Limit	Test Result 7.11 at 23°C 610 0.07 <1 Agreeable 0.21 412 0.6 < 0.005 61.5 < 0.1 285 271 60.3 24.1
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 23°C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)		-	610
3.	Turbidity	NTU	IS 3025 (Part 10)	1	5	0.07
4.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	<1
5.	Odour	-	IS 3025 (Part 5)	Agreea ble	Agreeable	Agreeable
6.	Taste	-	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.21
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	412
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.6
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	61.5
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO ₃)	mg / I	IS 3025 (Part 23)	200	600	285
14	Total hardness (as CaCO ₃)	mg / I	IS 3025 (Part 21)	200	600	271
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	60.3
16	Magnesium (as Mg)	mg / I	IS 3025 (Part 46)	30	100	24.1
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	35.4
18	Nitrates (as NO ₃)	mg / I	IS 3025 (Part 34)	45	No relaxation	< 5.0
19	Copper (as Cu)	mg / I	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg / I	IS 3025 (Part 2)	0.1	0.3	< 0.05
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg / I	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg / I	IS 3025 (Part 2)	0.03	0.2	0.006
26	Lead (as Pb)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.005

Laboratory : CT 20, Sector 117 Noida Gautam Buch Nagar - 201301 Branch Office HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE E.; nolda laboratery@gmail.com, info@poldatabs.com W: www.noidalabs.com



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TEST CERTIFICATE

	Test Parameter	11	Tost Mathod	As per IS 1 (Drinking Wate	As per IS 10500: 2012 (Drinking Water - Specification)		
Sr. NoTest Parameter		Unit Test Method		Acceptable Limit	*Permissible Limit	lest nesun	
27	Zinc (as Zn)	mg / I	IS 3025 (Part 2)	5	15	< 0.1	
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03	
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1	
30	Mineral Oil	mg / I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001	
31	Phenolic comp. (as C₅H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001	
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001	
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/I	USEPA : 550	-	-	< 0.01	
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Absent	

Notes:

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5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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TEST CERTIFICATE

ISSUED TO:		Report No.	W-11)922-26	
M/s Paras Power & Coal Bene (2.5 MTPA Coal Washery)	ficiation Limited	Report Issue Date	16.09.	2022	
Village: Ghutku, Tehsil: Takha	atpur & District: Bilaspur	Reference	As pe	r offer	
Sample Registration Date	:11.09.2022	Analysis Starting Date	4 9	11.09.2022	
Quantity received	: 2 L	Analysis Completion Date	:	16.09.2022	
Sample Collection date	: 09.09.2022	Tests required	:	As per Offer	
Sample Location Near Kachhar (SW)	: Upstream of Arpa River,	Sampled by	:	Mr. Vikas	

				As per IS 1 (Drinking Wate	.0500: 2012 r - Specification)	To a Docu la
Sr. No	Test Parameter	est Parameter Unit	Test Method	Acceptable Limit	*Permissible Limit	Test Result
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.11 at 23°C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	509
3.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	7.1
4.	DO	mg/l	-		-	5.9
5.	BOD	mg/l		-	-	11.0
6.	COD	mg/l	-	-	-	22.9
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.06
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	315
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.56
10	Cyanide (as CN)	mg/I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	19.6
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as CaCO ₃)	mg / I	IS 3025 (Part 23)	200	600	92.6
14	Total hardness (as CaCO ₃)	mg / I	IS 3025 (Part 21)	200	600	181.32
15	Calcium (as Ca)	mg / I	IS 3025 (Part 40)	75	200	47.1
16	Magnesium (as Mg)	mg/l	IS 3025 (Part 46)	30	100	14.8
17	Sulphate (as SO ₄)	mg / I	IS 3025 (Part 24)	200	400	42
18	Nitrates (as NO ₃)	mg/l	IS 3025 (Part 34)	45	No relaxation	6.1
19	Copper (as Cu)	mg/l	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	<0.03
21	Mercury (as Hg)	mg / I	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg / I	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg / I	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	0.005
26	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	< 0.003

TEST RESULTS

Laboratory : GT-20, Sector-117, Noida Gautam Buch Nagar - 201301 Branch Office :

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Sr. No	oTest Parameter	Unit	Test Method	As per IS (Drinking Wate		
				Acceptable Limit	*Permissible Limit	Test Result
27	Zinc (as Zn)	mg/I	IS 3025 (Part 2)	5	15	< 0.1
28	Total Chromium (as Cr)	mg / I	IS 3025 (Part 2)	0.05	No relaxation	< 0.03
29	Boron (as B)	mg / I	IS 3025 (Part 2)	0.5	1.0	< 0.1
30	Mineral Oil	mg/I	IS 3025 (Part 39)	0.5	No relaxation	< 0.001
31	Phenolic comp. (as C ₆ H₅OH)	mg / I	IS 3025 (Part 43)	0.001	0.002	< 0.001
32	Anionic detergents	mg / I	IS 13428 (Annex K)	0.2	1.0	< 0.001
33	Polyneuclear aromatic hydrocarbon (PAH)	μg/I	USEPA : 550	-	-	< 0.03
34	Total coliform	MPN/ 100 ml	IS 1622	Absent	Absent	Present

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. This test report will not be used for any publicity/legal purpose.

5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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TEST CERTIFICATE

ISSUED TO:		Report No.	: W- 1 1	0922-27	
M/s Paras Power & Coal Ben (2.5 MTPA Coal Washery)	eficiation Limited	Report Issue Date	: 16.09	.2022	
Village: Ghutku, Tehsil: Takh	atpur & District: Bilaspur	Reference	: As pe	er offer	
Sample Registration Date	:11.09.2022	Analysis Starting Date	e #	11.09.2022	
Quantity received	: 2 L	Analysis Completion Date	:	16.09.2022	
Sample Collection date	: 09.09.2022	Tests required	:	As per Offer	
Sample Location River, Near Kachhar (SW)	: Downstream of Arpa	Sampled by	:	Mr. Vikas	

				As per IS 1 (Drinking Wate	.0500 : 2012 er - Specification)	Test Desult
Sr. No	oTest Parameter	Unit	Test Method	Acceptable Limit	*Permissible Limit	Test Result
1.	pH value	-	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.28 at 23°C
2.	EC at 25°C	μs/cm	IS 3025 (Part 14)	-	-	565
3.	Apparent colour	Hazen	IS 3025 (Part 4)	5	15	6.2
4.	DO	mg/l	-	-	-	5.9
5.	BOD	mg/l	-	-	-	10.2
6.	COD	mg/l			-	20.4
7.	Iron (as Fe)	mg / I	IS 3025 (Part 2)	0.3	No relaxation	0.06
8.	Total dissolved solids (TDS)	mg / I	IS 3025 (Part 16)	500	2000	341
9.	Fluoride (as F)	mg / I	IS 3025 (Part 60)	1.0	1.5	0.6
10	Cyanide (as CN)	mg / I	IS 3025 (Part 27)	0.05	No relaxation	< 0.005
11	Chlorides (as Cl)	mg / I	IS 3025 (Part 32)	250	1000	25.6
12	Residual chlorine	mg/l	IS 3025 (Part 26)	0.2	1	< 0.1
13	Total alkalinity (as	mg / I	IS 3025 (Part 23)	200	600	110
14	Total hardness (as	mg / I	IS 3025 (Part 21)	200	600	171.2
15	Calcium (as Ca)	mg/l	IS 3025 (Part 40)	75	200	40.9
16	Magnesium (as Mg)	mg/l	IS 3025 (Part 46)	30	100	15.7
17	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24)	200	400	49.8
18	Nitrates (as NO ₂)	mg/l	IS 3025 (Part 34)	45	No relaxation	9.10
19	Copper (as Cu)	mg / 1	IS 3025 (Part 2)	0.05	1.5	< 0.03
20	Manganese (as Mn)	mg/l	IS 3025 (Part 2)	0.1	0.3	<0.03
21	Mercury (as Hg)	mg/l	IS 3025 (Part 2)	0.001	No relaxation	< 0.0005
22	Cadmium (as Cd)	mg/l	IS 3025 (Part 2)	0.003	No relaxation	< 0.001
23	Selenium (as Se)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	< 0.001
24	Arsenic (as As)	mg/l	IS 3025 (Part 2)	0.01	0.05	< 0.01
25	Aluminium (as Al)	mg/l	IS 3025 (Part 2)	0.03	0.2	0.005
26	Lead (as Pb)	mg/l	IS 3025 (Part 2)	0.01	No relaxation	< 0.003

TEST RESULTS

Laboratory GT 20, Sector 117, Noida Gautan Budh Nagar - 201301

Branch Office :

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TEST CERTIFICATE

Report No.	AAQ-090922-012	Date of Issue	16.09.2022	
Client Name and Address:	M/s Paras Power & Coal Beneficiation Limited, Village: Ghutku, Tehsil: Takhatpur & District: Bilaspur (2.5 MTPA Coal Washery)			
Type of Sampling:	Ambient Air Quality Monitoring (Sept 2022)			
Sample Location:	As mentioned below			
Date of Sampling:	09.09.2022 & 10.09.2022	Date of Receipt:	11.09.2022	
Start Date of Analysis:	11.09.2022	End Date of Analysis:	16.09.2022	
Sample Collected By:	Mr. Vikas	Duration of Sampling:	1440 Mins	
Testing Protocol:	Bureau of Indian Standard			

					(24)	ars sampling)
SL	Sameline Leasting	Compliant Data	PM10	PM2.5	SO2	NOx
No.	Sampling Location	Sampling Date	μg /m ³	$\mu g / m^3$	$\mu g / m^3$	$\mu g / m^3$
Core Z	Lone (Sept 2022)					
1.	Near Entry Gate	09.09.2022	59.6	25.4	8.1	17.4
2.	Near Electrical Room	09.09.2022	62.9	25.7	8.4	18.3
3.	Near Weigh Bridge	09.09.2022	64.2	23.1	7.6	17.9
4.	Near Washery Back	09.09.2022	65.7	26.9	9.0	18.5
Buffer	Zone (Sept 2022)			1		
1.	Turkadih Village	10.09.2022	50.4	18.6	6.0	12.9
2.	Devari Village	10.09.2022	50.4	19.8	6.8	10.7
3.	Ghutku Village	10.09.2022	51.5	18.8	6.9	11.2
4.	Karhipara Village	10.09.2022	54.1	18.1	6.1	12.0
NAAQ	NAAQ Standards 100 60 80 80					80
Remark-All above results are within National Ambient Air Quality standards.						

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. This test report will not be used for any publicity/legal purpose.

5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

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TEST CERTIFICATE

Report No.	A A O-090922-013	Date of Issue	16.09.2022	
Client Name and Address:	M/s Paras Power & Coal Beneficiation Limited, (2.5 MTPA Coal Washery) Village: Ghutku, Tehsil: Takhatpur & District: Bilaspur			
Type of Sampling:	Ambient Noise Monitoring (S	Sept-2022)		
Sample Location:	As mentioned below			
Date of Sampling:	09.09.2022	Sample Collected By	Mr. Vikas	

Ambient Noise Monitoring

C. C		RESULT	Leq, dB(A)	
SL. NO.	LOCATION	DAY	NIGHT	
1	Project Site	66.8	40.2	
2	Turkadih Village	50.4	38.5	
3	Devari Village	51.2	38.9	
4	Ghutku Village	52.6	38.4	
5.	Karhipara Village	50.1	36.9	
Noise Stan	dards			
Residential Area		55	45	
Industrial Area		75	70	

Notes:

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