



ENVIRONMENTAL AUDIT STATEMENT

2022-23

For

VIJAY WEST UNDERGROUND MINE

Under

(CHIRIMIRI AREA)

South Eastern Coalfields Limited

(A Mini Ratna Company)

Year of establishment 2009

Capacity of Mine - 0.50 MTPA

Project Area 438.10 ha (As per EC)

**Central Mine Planning & Design Institute Limited
Regional Institute – V, CMPDI Complex, Seepat Road,
BILASPUR (C.G.)**

ENVIRONMENTAL AUDIT STATEMENT (2022-23)

VIJAY WEST UG MINE

CHAPTER-I

TABLE-1.1

1.0	General Information	:	
a)	Extractable Reserves (as on 01.04.2023)	:	7.837 MT
b)	Target output & grade of coal (2023-24)	:	5,00,000 Tonne, G-6
c)	Seams Worked	:	Seam-III
d)	Thickness of Seam Worked (in metres.)	:	2.25mtrs to 5.76mtrs
e)	Depth of Seams from the surface Minimum : Maximum:	:	Seam No.III 19.65 m 82.66 m
f)	Av. Stripping ratio mining purpose	:	NA (mine is underground)
g)	No. of villages/ families	:	03
h)	(i) Mining area (in Ha.)	:	425 Ha.
	(ii) Leasehold area other than mining purpose (in Ha.)	:	13.10 Ha.
	(iii) Total Leasehold Area (in Ha.)	:	438.10 Ha.

1.1	Brief Geology of Mine	:	1) There are several no. fault (13nos.) varies from 3m to 77m of throw. 2) As per MECL exploration data, two nos. fault exist within mine boundary is F-5 to F-13 crossing the property at NW and SW direction respectively.														
1.2	Mining Method Description	:	B&P development with CM														
1.3	Present Status of the mine	:	Working (Development)														
1.	Production Figures	:															
	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Year</th> <th>Coal Production (in Tonnes)</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>5,00,000</td> </tr> <tr> <td>2019-20</td> <td>4,99,995</td> </tr> <tr> <td>2020-21</td> <td>5,00,000</td> </tr> <tr> <td>2021-22</td> <td>4,90,260</td> </tr> <tr> <td>2022-23</td> <td>5,00,000</td> </tr> <tr> <td>2023-24 (Target)</td> <td>5,00,000</td> </tr> </tbody> </table>			Year	Coal Production (in Tonnes)	2018-19	5,00,000	2019-20	4,99,995	2020-21	5,00,000	2021-22	4,90,260	2022-23	5,00,000	2023-24 (Target)	5,00,000
Year	Coal Production (in Tonnes)																
2018-19	5,00,000																
2019-20	4,99,995																
2020-21	5,00,000																
2021-22	4,90,260																
2022-23	5,00,000																
2023-24 (Target)	5,00,000																
2.	No. of Inclines (Running)	:	02														
3.	Shafts	:	01 (Air shaft)														
4.	No. of quarries	:	NA														
5.	Overburden	:	NA														
6.	Main Consumers	:	Different Power plants, Iron factory etc.														
7.	Mode of dispatch	:	Transfer to Siding and by road sale														

CHAPTER-II

FORM-V (See rule 14)

Environmental Statement for the Financial Year ending

31st March 2023

PART-A

(i)	Name and address of the mine	:	Vijay West UG Mine Vill. & PO. : Putipakhna, Teh. Pondi Uproda, Thana: Pasan, Distt. : Korba (C.G.), 495119
(ii)	Industry category Primary (SIC Code) or Secondary (SIC Code)	:	Primary
(iii)	Production capacity units	:	0.50 MTY
(iv)	Year of establishment	:	2009
(v)	Date of the last environmental Statement Submitted	:	September 2022

PART-B

Water and Raw Materials Consumption

(i) Water Consumption (KLD)

Industrial consumption: 1195 KLD

Domestic consumption: 25 KLD

Name of Products	Process water consumption per product output	
	During the previous financial year 2021-22	During the current financial year 2022-23
Coal	NA	NA

(ii) Raw materials consumption

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous financial year 2021-22	During the current financial year 2022-23
Explosive	Coal	Nil	Nil
P.O.L	Coal	0.055 lit/tonne	0.045 lit/tonne

*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

POLLUTANT DISCHARGED TO ENVIRONMENT/ UNIT OF OUTPUT (Parameters as specified in the consent issued)

Pollutants (Including mine & colony discharge of water)	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/ volume)	Percentage of variation from prescribed standards with reasons
(a) Air	Environment Monitoring analysis reports enclosed		
(b) Water			
(i) Mine water pumped out			
(ii) Industrial water discharged			
(iii) Colony water discharged			
(c) Noise			

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes/ Management Handling Rule, 1989)

Hazardous Wastes	Total quantity	
	During the previous financial year 2021-22	During the current financial year 2022-23
From Process	NIL	0.01 KL
From Pollution control facilities	NIL	NIL

PART-E

SOLID WASTES

Removal of overburden	Total quantity	
	During the previous financial year 2021-22	During the current financial year 2022-23
Total O.B.	Not Applicable (Mine is underground)	
Total O.B. For back filling		
Total O.B. disposed		

PART-F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Description	Qty. MT / Year (22-23)	Collection Method
Steel Scrap	Nil	NA
Copper Scrap	Nil	NA
Aluminum Scrap	Nil	NA
Used Oil	0.01 Te.	Collected in steel drums

PART-G

Impact of the pollution abatement measure taken on conservation of natural resources and on the cost of production.

Fixed type water sprinklers have been installed along coal transport road and stockyard with continuous water spraying at discharge/transfer points for dust suppression.

PART-H

Additional measures/ investment proposals for environmental protection including abatement of pollution, prevention of pollution.

Plantation around the mine boundary is being done at strategic locations & settling tank is functioning.

PART-I

Any other particulars for improving the quality of the environment.

Rainwater harvesting is being done at the mine premises through roof top rainwater harvesting arrangement with a total roof top area of 636 m² installed at the following locations:

1. Office of the Colliery Manager, Vijay West UG Mine (with roof top area of 360 m²)
 2. Lamp Room, Vijay West UG Mine (with roof top area of 180 m²)
 3. Sub Station, Vijay West UG Mine (with roof top area of 96 m²)
-

ENVIRONMENTAL MONITORING REPORT

**CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED**

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A Mini Ratna Company

AIR QUALITY REPORT

Month	January	Area	Chirimiri	Report No.	HSD/CHRM/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	20.02.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	41-42

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80		
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Str. Code	Str. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
ENTRANCE GATE (Vijay West U/G)	41	A-O	04.01.2023	15.01.2023	428	173	45	36	47	
			06.01.2023	18.01.2023	435	179	50	40	40	
			11.01.2023	20.01.2023	421	176	44	38	44	
			13.01.2023	22.01.2023	418	168	42	34	42	
			18.01.2023	16.02.2023	433	175	38	30	39	
			20.01.2023	17.02.2023	421	165	41	32	43	
			25.01.2023	18.02.2023	407	160	38	35	45	
			31.01.2023	19.02.2023	394	157	35	37	41	
-	-	-	-	-	-	-	-	-		
MINE SITE OFFICE	42	A-O	04.01.2023	15.01.2023	346	165	42	32	44	
			06.01.2023	18.01.2023	328	157	39	29	40	
			11.01.2023	20.01.2023	314	146	37	31	44	
			13.01.2023	22.01.2023	327	152	40	33	42	
			18.01.2023	16.02.2023	309	142	36	29	38	
			20.01.2023	17.02.2023	291	137	34	26	36	
			25.01.2023	18.02.2023	305	143	38	28	38	
			31.01.2023	19.02.2023	294	138	33	25	33	
-	-	-	-	-	-	-	-	-		


Tested by
(Junior Scientific Assistant, Grade-D)


Checked by


Officer In-charge

Note: 1) The results above relate to the samples tested.
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	20.02.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	43-44

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O		600	300	-	120	120	
			A-N		500	250	-	120	120	
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B		200	100	60	80	80	
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Str. Code	Str. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
MANAGER'S OFFICE	43	A-O	04.01.2023	15.01.2023	357	158	43	33	45	
			06.01.2023	18.01.2023	341	151	40	30	40	
			11.01.2023	20.01.2023	326	143	38	26	38	
			13.01.2023	22.01.2023	335	149	42	31	42	
			18.01.2023	16.02.2023	345	154	44	34	45	
			20.01.2023	17.02.2023	359	162	48	36	47	
			25.01.2023	18.02.2023	348	152	45	32	43	
			31.01.2023	19.02.2023	337	147	42	29	40	
WATER FILTER PLANT AT VIJAY WEST U/G	44	A-O	04.01.2023	15.01.2023	311	148	42	30	41	
			06.01.2023	18.01.2023	304	143	38	27	37	
			11.01.2023	20.01.2023	292	139	41	29	40	
			13.01.2023	22.01.2023	308	145	43	31	42	
			18.01.2023	16.02.2023	295	138	36	26	37	
			20.01.2023	17.02.2023	282	132	33	24	33	
			25.01.2023	18.02.2023	273	128	31	21	30	
			31.01.2023	19.02.2023	285	135	34	25	34	

Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	20.02.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	39-40

Parameter		SPM	RPM/ PM ₁₀	PM _{2.5}	SO ₂	NO ₂					
Limit (in µg/m ³)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)	A-O	600	300	-	120	120	Remarks			
		A-N	500	250	-	120	120				
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)	B	200	100	60	80	80				
Method of Testing			IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6				
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/ PM ₁₀	PM _{2.5}	SO ₂	NO ₂		
SIKTAPARA VILLAGE	39	B	03.01.2023	15.01.2023	119	60	18	12	18		
			05.01.2023	18.01.2023	126	64	21	14	21	-	
			10.01.2023	20.01.2023	120	61	19	13	19		
			12.01.2023	22.01.2023	132	66	23	11	16		
			17.01.2023	16.02.2023	138	70	25	13	17		
			19.01.2023	17.02.2023	129	65	21	12	18		
			24.01.2023	18.02.2023	121	62	18	13	20		
			28.01.2023	19.02.2023	116	59	16	11	16		
RESIDENTIAL COLONY	40	B	03.01.2023	15.01.2023	136	69	25	18	26		
			05.01.2023	18.01.2023	143	72	27	21	28		
			10.01.2023	20.01.2023	135	69	22	19	27		
			12.01.2023	22.01.2023	127	65	26	21	31		
			17.01.2023	16.02.2023	136	68	28	22	32		
			19.01.2023	17.02.2023	128	65	31	25	33		
			24.01.2023	18.02.2023	121	62	27	20	26		
			28.01.2023	19.02.2023	131	66	25	18	24		
-	-										

Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

Note: 1) The results above relate to the samples tested.


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AIR QUALITY REPORT

Month	January	Area	Chirimiri	Report No.	HSD/CHRM/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	20.02.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	45-46

Parameter					SPM	RPM/ PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80			
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/ PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
PUTIPAKHANA VILLAGE	45	B	04.01.2023	15.01.2023	121	60	19	13	19	
			06.01.2023	18.01.2023	116	57	16	11	16	
			11.01.2023	20.01.2023	114	55	18	12	18	
			13.01.2023	22.01.2023	122	63	21	10	14	
			18.01.2023	16.02.2023	130	66	23	12	16	
			20.01.2023	17.02.2023	121	62	19	13	18	
			25.01.2023	18.02.2023	109	55	18	10	15	
			31.01.2023	19.02.2023	115	58	15	11	17	
			-	-						
KENDI VILLAGE	46	B	04.01.2023	15.01.2023	134	67	24	14	21	
			06.01.2023	18.01.2023	128	65	20	12	18	
			11.01.2023	20.01.2023	121	62	18	11	16	
			13.01.2023	22.01.2023	132	68	21	13	19	
			18.01.2023	16.02.2023	126	62	17	12	18	
			20.01.2023	17.02.2023	119	60	22	10	14	
			25.01.2023	18.02.2023	124	63	19	12	20	
			31.01.2023	19.02.2023	117	59	23	14	21	
			-	-						


 Tested by
 (Junior Scientific Assistant, Grade-D)


 Checked by


 Officer In-charge

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NOISE QUALITY REPORT

Month	January	Area	Chirimiri	Report No.	HSD/CHRM/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	20.02.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	41-46, 39-40

Parameter				The Noise Pollution (R & C) rules, 2000		Remarks
				Day Time	Night Time	
Limit (in dB(A) Leq	Industrial area	A	75	70		
	Commercial area	B	65	55		
	Residential Area	C	55	45		
	Silence Zone	D	50	40		
Method of Testing	CPCB Protocol For Ambient Level Noise Monitoring					
Station Name	Station Code	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
ENTRANCE GATE (Vijay West U/G)	41	A	10.01.2023	65.7	58.5	
			24.01.2023	63.8	57.3	
MINE SITE OFFICE	42	A	10.01.2023	56.5	48.5	
			24.01.2023	55.2	47.3	
MANAGER'S OFFICE	43	A	10.01.2023	58.3	52.6	
			24.01.2023	56.8	51.5	
WATER FILTER PLANT AT VIJAY WEST U/G	44	A	10.01.2023	52.4	37.6	
			24.01.2023	53.6	38.5	
SIKTAPARA VILLAGE	39	C	09.01.2023	45.8	36.7	
			23.01.2023	44.6	36.2	
RESIDENTIAL COLONY	40	C	09.01.2023	49.8	39.7	
			23.01.2023	48.5	38.6	
PUTIPAKHANA VILLAGE	45	C	10.01.2023	46.7	36.7	
			24.01.2023	45.4	35.6	
KENDI VILLAGE	46	C	10.01.2023	44.6	36.1	
			24.01.2023	43.8	35.3	


Monitored by
(Junior Scientific Assistant, Grade-D)


Checked by


Officer In-charge

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EFFLUENT WATER QUALITY REPORT

Month	January	Area	Chirimiri	Report No.	HSD/CHRM/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	20.01.2023
Name of the Project	VIJAY WEST U/G	Sample reference No.	16-19

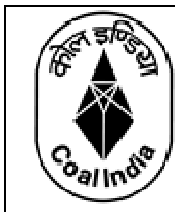
Parameter				pH Value, LDL	Total suspended Solids, mg/l, max	COD, mg/l, max	Oil & Grease, mg/l, max	BOD (3 days 27°C)mg/l,max
Lower Detection Limit				0.01	25.0	4.0	2.0	2.0
General Standards for Discharge of Environmental Pollution (Part A: Effluent) as per Schedule VI, Environment (Protection) Rules				5.5 to 9.0	100.0	250.0	10.0	30.0
Station name	St. Code	Date of Sampling	Date of Testing					
UP STREAM OF BAMNI RIVER	16	14.01.2023	14.01.2023 To 18.01.2023	7.37	<25	<4.0	<2.0	-
		28.01.2023	28.01.2023 To 05.02.2023	7.35	<25	<4.0	<2.0	-
DOWN STREAM OF BAMNI RIVER	17	14.01.2023	14.01.2023 To 18.01.2023	7.36	<25	<4.0	<2.0	-
		28.01.2023	28.01.2023 To 05.02.2023	7.34	<25	<4.0	<2.0	-
MINE DISCHARGE OF VIJAY WEST U/G	18	14.01.2023	14.01.2023 To 18.01.2023	6.87	95	36	5.1	-
		28.01.2023	28.01.2023 To 05.02.2023	6.85	89	32	4.6	-
KATAI NALA	19	14.01.2023	14.01.2023 To 18.01.2023	6.91	28	24	<2.0	-
		28.01.2023	28.01.2023 To 05.02.2023	6.88	26	20	<2.0	-

Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

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AIR QUALITY REPORT

Month	February	Area	Chirimiri	Report No.	HSD/CHRM/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	17.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	41-42

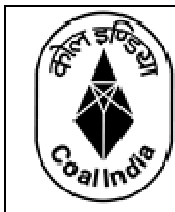
Parameter					SPM	RPM/ PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in µg/m ³)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80		
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Str. Code	Str. cat.	Date of sampling	Date of Testing	SPM	RPM/ PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
ENTRANCE GATE (Vijay West U/G)	41	A-O	03.02.2023	17.02.2023	412	162	42	37	46	
			08.02.2023	19.02.2023	426	167	45	39	50	
			10.02.2023	24.02.2023	439	173	47	42	52	
			15.02.2023	28.02.2023	411	161	41	31	42	
			17.02.2023	09.03.2023	391	154	37	28	37	
			22.02.2023	11.03.2023	378	148	35	27	38	
			24.02.2023	14.03.2023	386	159	38	32	43	
			28.02.2023	15.03.2023	371	154	36	29	40	
-	-	-	-	-	-	-	-	-		
MINE SITE OFFICE	42	A-O	03.02.2023	17.02.2023	308	143	35	27	38	
			08.02.2023	19.02.2023	315	149	37	29	41	
			10.02.2023	24.02.2023	326	154	41	32	45	
			15.02.2023	28.02.2023	314	144	38	28	37	
			17.02.2023	09.03.2023	301	139	35	25	33	
			22.02.2023	11.03.2023	297	143	31	24	32	
			24.02.2023	14.03.2023	286	135	29	23	31	
			28.02.2023	15.03.2023	273	138	27	21	30	
-	-	-	-	-	-	-	-	-		

Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

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AIR QUALITY REPORT

Month	February	Area	Chirimiri	Report No.	HSD/CHRM/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	17.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	43-44

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80		
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
MANAGER'S OFFICE	43	A-O	03.02.2023	17.02.2023	326	151	38	29	40	
			08.02.2023	19.02.2023	345	162	42	33	42	
			10.02.2023	24.02.2023	336	158	39	30	38	
			15.02.2023	28.02.2023	342	152	41	34	43	
			17.02.2023	09.03.2023	328	147	37	29	38	
			22.02.2023	11.03.2023	312	139	35	27	36	
			24.02.2023	14.03.2023	294	135	33	25	33	
			28.02.2023	15.03.2023	285	131	30	23	31	
-	-	-	-	-	-	-	-	-		
WATER FILTER PLANT AT VIJAY WEST U/G	44	A-O	03.02.2023	17.02.2023	295	142	36	24	33	
			08.02.2023	19.02.2023	284	138	39	27	37	
			10.02.2023	24.02.2023	276	132	34	25	34	
			15.02.2023	28.02.2023	287	136	37	26	36	
			17.02.2023	09.03.2023	296	140	38	28	38	
			22.02.2023	11.03.2023	283	134	36	25	32	
			24.02.2023	14.03.2023	274	129	31	22	30	
			28.02.2023	15.03.2023	265	126	34	20	28	
-	-	-	-	-	-	-	-	-		

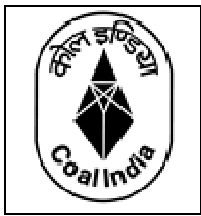
Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

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AIR QUALITY REPORT

Month	February	Area	Chirimiri	Report No.	HSD/CHRM/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	17.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	39-40

Parameter		SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂					
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)	A-O	600	300	-	120	120	Remarks			
		A-N	500	250	-	120	120				
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)	B	200	100	60	80	80				
Method of Testing			IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6				
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂		
SIKTAPARA VILLAGE	39	B	02.02.2023	17.02.2023	121	61	21	13	19		
			04.02.2023	19.02.2023	115	58	18	12	18	-	
			07.02.2023	24.02.2023	108	54	19	14	21		
			09.02.2023	28.02.2023	116	59	23	11	16		
			14.02.2023	09.03.2023	123	62	25	11	17		
			16.02.2023	11.03.2023	126	65	21	12	19		
			21.02.2023	14.03.2023	118	59	18	10	16		
			23.02.2023	15.03.2023	110	56	16	11	17		
RESIDENTIAL COLONY	40	B	02.02.2023	17.02.2023	129	65	23	16	24		
			04.02.2023	19.02.2023	134	68	25	19	26		
			07.02.2023	24.02.2023	142	71	28	21	29		
			09.02.2023	28.02.2023	135	69	24	18	25		
			14.02.2023	09.03.2023	127	64	21	16	23		
			16.02.2023	11.03.2023	117	59	20	14	20		
			21.02.2023	14.03.2023	128	64	24	16	24		
			23.02.2023	15.03.2023	119	60	22	15	19		
-	-										


Tested by
(Junior Scientific Assistant, Grade-D)


Checked by


Officer In-charge

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AIR QUALITY REPORT


Month	February	Area	Chirimiri	Report No.	HSD/CHRM/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	17.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	45-46

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in µg/m ³)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80		
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
PUTIPAKHANA VILLAGE	45	B	03.02.2023	17.02.2023	118	60	19	12	18	
			08.02.2023	19.02.2023	111	56	17	10	14	
			10.02.2023	24.02.2023	106	53	14	11	15	
			15.02.2023	28.02.2023	115	57	16	13	19	
			17.02.2023	09.03.2023	122	61	21	14	20	
			22.02.2023	11.03.2023	117	59	17	12	18	
			24.02.2023	14.03.2023	108	54	13	10	15	
			28.02.2023	15.03.2023	116	58	16	11	16	
			-	-						
KENDI VILLAGE	46	B	03.02.2023	17.02.2023	126	63	19	12	18	
			08.02.2023	19.02.2023	132	67	23	14	20	
			10.02.2023	24.02.2023	127	64	21	13	19	
			15.02.2023	28.02.2023	118	59	18	12	17	
			17.02.2023	09.03.2023	112	56	15	11	16	
			22.02.2023	11.03.2023	120	60	19	14	22	
			24.02.2023	14.03.2023	116	58	17	12	17	
			28.02.2023	15.03.2023	111	56	16	13	19	
			-	-						


 Tested by
 (Junior Scientific Assistant, Grade-D)


 Checked by


 Officer In-charge

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NOISE QUALITY REPORT


Month	February	Area	Chirimiri	Report No.	HSD/CHRM/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	17.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	41-46, 39-40

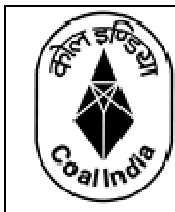
Parameter			The Noise Pollution (R & C) rules, 2000		Remarks
			Day Time	Night Time	
Limit (in dB(A) Leq	Industrial area	A	75	70	
	Commercial area	B	65	55	
	Residential Area	C	55	45	
	Silence Zone	D	50	40	
Method of Testing	CPCB Protocol For Ambient Level Noise Monitoring				
Station Name	Station Code	Station category	Date of measurement	Value in dB(A)	Value in dB(A)
ENTRANCE GATE (Vijay West U/G)	41	A	13.02.2023	62.8	57.6
			23.02.2023	65.2	59.5
MINE SITE OFFICE	42	A	13.02.2023	54.6	46.8
			23.02.2023	55.7	48.1
MANAGER'S OFFICE	43	A	13.02.2023	60.2	53.6
			23.02.2023	58.7	52.2
WATER FILTER PLANT AT VIJAY WEST U/G	44	A	13.02.2023	50.7	38.5
			23.02.2023	52.8	39.7
SIKTAPARA VILLAGE	39	C	14.02.2023	46.7	37.6
			24.02.2023	48.2	38.5
RESIDENTIAL COLONY	40	C	14.02.2023	50.6	40.6
			24.02.2023	49.3	39.5
PUTIPAKHANA VILLAGE	45	C	13.02.2023	47.5	36.3
			23.02.2023	48.6	37.5
KENDI VILLAGE	46	C	13.02.2023	47.8	37.7
			23.02.2023	46.5	36.4


 Monitored by
 (Junior Scientific Assistant, Grade-D)


 Checked by


 Officer In-charge

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EFFLUENT WATER QUALITY REPORT


Month	February	Area	Chirimiri	Report No.	HSD/CHRM/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	17.03.2023
Name of the Project	VIJAY WEST U/G	Sample reference No.	16-19

Parameter				pH Value, LDL	Total suspended Solids, mg/l, max	COD, mg/l, max	Oil & Grease, mg/l, max	BOD (3 days 27°C)mg/l,max
Lower Detection Limit				0.01	25.0	4.0	2.0	2.0
General Standards for Discharge of Environmental Pollution (Part A: Effluent) as per Schedule VI, Environment (Protection) Rules				5.5 to 9.0	100.0	250.0	10.0	30.0
Station name	St. Code	Date of Sampling	Date of Testing					
UP STREAM OF BAMNI RIVER	16	13.02.2023	13.02.2023 To 17.02.2023	7.33	<25	<4.0	<2.0	-
		28.02.2023	28.02.2023 To 06.03.2023	7.36	<25	<4.0	<2.0	-
DOWN STREAM OF BAMNI RIVER	17	13.02.2023	13.02.2023 To 17.02.2023	7.32	<25	<4.0	<2.0	-
		28.02.2023	28.02.2023 To 06.03.2023	7.34	<25	<4.0	<2.0	-
MINE DISCHARGE OF VIJAY WEST U/G	18	13.02.2023	13.02.2023 To 17.02.2023	6.84	91	28	4.3	-
		28.02.2023	28.02.2023 To 06.03.2023	6.86	95	36	5.6	-
KATAI NALA	19	13.02.2023	13.02.2023 To 17.02.2023	6.87	29	20	<2.0	-
		28.02.2023	28.02.2023 To 06.03.2023	6.89	31	24	<2.0	-


Tested by
(Junior Scientific Assistant, Grade-D)


Checked by


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AIR QUALITY REPORT

Month	March	Area	Chirimiri	Report No.	HSD/CHRM/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	30.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	41-42

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80		
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Str. Code	Str. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
ENTRANCE GATE (Vijay West U/G)	41	A-O	03.03.2023	10.03.2023	384	152	38	30	41	
			07.03.2023	11.03.2023	395	161	41	33	45	
			11.03.2023	16.03.2023	381	154	37	32	42	
			15.03.2023	19.03.2023	402	165	43	35	46	
			17.03.2023	21.03.2023	387	155	39	31	40	
			22.03.2023	27.03.2023	369	143	36	28	37	
			24.03.2023	28.03.2023	347	137	31	24	32	
			29.03.2023	30.03.2023	356	145	38	29	41	
-	-	-	-	-	-	-	-	-		
MINE SITE OFFICE	42	A-O	03.03.2023	10.03.2023	271	131	35	27	37	
			07.03.2023	11.03.2023	284	138	33	29	40	
			11.03.2023	16.03.2023	273	133	32	26	37	
			15.03.2023	19.03.2023	301	142	38	30	41	
			17.03.2023	21.03.2023	289	137	33	27	38	
			22.03.2023	27.03.2023	275	132	32	24	33	
			24.03.2023	28.03.2023	257	127	27	21	30	
			29.03.2023	30.03.2023	268	135	31	23	35	
-	-	-	-	-	-	-	-	-		

Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

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AIR QUALITY REPORT


Month	March	Area	Chirimiri	Report No.	HSD/CHRM/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	30.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	43-44

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80		
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Str. Code	Str. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
MANAGER'S OFFICE	43	A-O	03.03.2023	10.03.2023	291	139	37	28	37	
			07.03.2023	11.03.2023	312	145	40	30	40	
			11.03.2023	16.03.2023	322	153	42	32	43	
			15.03.2023	19.03.2023	308	144	36	29	38	
			17.03.2023	21.03.2023	294	138	32	27	36	
			22.03.2023	27.03.2023	281	131	29	25	34	
			24.03.2023	28.03.2023	269	127	26	23	33	
			29.03.2023	30.03.2023	282	132	30	26	38	
WATER FILTER PLANT AT VIJAY WEST U/G	44	A-O	03.03.2023	10.03.2023	271	132	34	25	35	
			07.03.2023	11.03.2023	262	127	31	23	32	
			11.03.2023	16.03.2023	277	135	35	26	37	
			15.03.2023	19.03.2023	264	128	32	23	33	
			17.03.2023	21.03.2023	275	133	36	24	35	
			22.03.2023	27.03.2023	266	129	31	22	30	
			24.03.2023	28.03.2023	246	121	26	20	28	
			29.03.2023	30.03.2023	268	130	29	24	35	


Tested by
(Junior Scientific Assistant, Grade-D)


Checked by


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AIR QUALITY REPORT


Month	March	Area	Chirimiri	Report No.	HSD/CHRM/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	30.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	39-40

Parameter		SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂						
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)	A-O	600	300	-	120	120	Remarks				
		A-N	500	250	-	120	120					
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)	B	200	100	60	80	80					
Method of Testing			IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6					
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂			
SIKTAPARA VILLAGE	39	B	02.03.2023	10.03.2023	114	57	20	13	20			
			04.03.2023	11.03.2023	108	55	18	11	17	-		
			10.03.2023	16.03.2023	120	60	21	15	22			
			14.03.2023	19.03.2023	114	58	19	13	19			
			16.03.2023	21.03.2023	119	60	20	12	18			
			21.03.2023	27.03.2023	108	54	17	11	16			
			23.03.2023	28.03.2023	101	52	15	10	15			
			28.03.2023	29.03.2023	111	56	18	13	21			
RESIDENTIAL COLONY	40	B	02.03.2023	10.03.2023	127	64	24	18	26			
			04.03.2023	11.03.2023	119	60	22	16	23			
			10.03.2023	16.03.2023	112	56	20	14	20			
			14.03.2023	19.03.2023	121	61	23	17	25			
			16.03.2023	21.03.2023	126	63	25	19	27			
			21.03.2023	27.03.2023	112	56	21	15	21			
			23.03.2023	28.03.2023	106	53	16	12	18			
			28.03.2023	29.03.2023	117	59	20	16	22			
-	-											


Tested by
(Junior Scientific Assistant, Grade-D)


Checked by


Officer In-charge


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AIR QUALITY REPORT

Month	March	Area	Chirimiri	Report No.	HSD/CHRM/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	30.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	45-46

Parameter					SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Industrial Zone -(G.S.R. 742(E), dated 25.9.2000)		A-O	600	300	-	120	120		
			A-N	500	250	-	120	120		
Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), April 02, 1996)		B	200	100	60	80	80			
Method of Testing					IS-5182 PART 4	IS-5182 PART 23	USEPA CFR40, Appendix L to Part 50	IS-5182 PART 2	IS-5182 PART 6	
Station Name	Stn. Code	Stn. cat.	Date of sampling	Date of Testing	SPM	RPM/PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
PUTIPAKHANA VILLAGE	45	B	03.03.2023	10.03.2023	108	55	17	11	16	
			07.03.2023	11.03.2023	114	58	18	13	19	
			11.03.2023	16.03.2023	105	53	16	12	17	
			15.03.2023	19.03.2023	112	57	18	13	18	
			17.03.2023	21.03.2023	121	62	20	15	22	
			22.03.2023	27.03.2023	109	55	16	12	17	
			24.03.2023	28.03.2023	98	50	13	10	14	
			29.03.2023	30.03.2023	112	57	15	12	18	
			-	-						
KENDI VILLAGE	46	B	03.03.2023	10.03.2023	118	60	19	11	16	
			07.03.2023	11.03.2023	124	63	20	12	18	
			11.03.2023	16.03.2023	129	65	22	14	21	
			15.03.2023	19.03.2023	122	61	18	12	17	
			17.03.2023	21.03.2023	116	58	17	11	15	
			22.03.2023	27.03.2023	109	54	16	10	14	
			24.03.2023	28.03.2023	101	51	14	10	15	
			29.03.2023	30.03.2023	116	59	17	12	18	
			-	-						


 Tested by
 (Junior Scientific Assistant, Grade-D)


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 Officer In-charge

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NOISE QUALITY REPORT

Month	March	Area	Chirimiri	Report No.	HSD/CHRM/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	30.03.2023
Name of the Project	VIJAY WEST U/G	Sample Reference No.	41-46, 39-40

Parameter				The Noise Pollution (R & C) rules, 2000		Remarks
				Day Time	Night Time	
Limit (in dB(A) Leq	Industrial area	A	75	70		
	Commercial area	B	65	55		
	Residential Area	C	55	45		
	Silence Zone	D	50	40		
Method of Testing	CPCB Protocol For Ambient Level Noise Monitoring					
Station Name	Station Code	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
ENTRANCE GATE (Vijay West U/G)	41	A	10.03.2023	66.4	58.8	
			21.03.2023	64.1	56.7	
MINE SITE OFFICE	42	A	10.03.2023	54.5	45.6	
			21.03.2023	53.2	43.9	
MANAGER'S OFFICE	43	A	10.03.2023	61.8	55.4	
			21.03.2023	50.3	53.9	
WATER FILTER PLANT AT VIJAY WEST U/G	44	A	10.03.2023	49.6	39.4	
			21.03.2023	50.9	40.5	
SIKTAPARA VILLAGE	39	C	09.03.2023	47.8	38.1	
			20.03.2023	46.7	36.8	
RESIDENTIAL COLONY	40	C	09.03.2023	48.6	38.7	
			20.03.2023	50.2	39.6	
PUTIPAKHANA VILLAGE	45	C	10.03.2023	46.7	37.6	
			21.03.2023	45.3	36.9	
KENDI VILLAGE	46	C	10.03.2023	46.5	36.8	
			21.03.2023	48.7	38.3	

Monitored by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

Note: 1) The results above relate to the samples tested.

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EFFLUENT WATER QUALITY REPORT

Month	March	Area	Chirimiri	Report No.	HSD/CHRM/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	30.03.2023
Name of the Project	VIJAY WEST U/G	Sample reference No.	16-19

Parameter				pH Value, LDL	Total suspended Solids, mg/l, max	COD, mg/l, max	Oil & Grease, mg/l, max	BOD (3 days 27°C)mg/l,max
Lower Detection Limit				0.01	25.0	4.0	2.0	2.0
General Standards for Discharge of Environmental Pollution (Part A: Effluent) as per Schedule VI, Environment (Protection) Rules				5.5 to 9.0	100.0	250.0	10.0	30.0
Station name	St. Code	Date of Sampling	Date of Testing					
UP STREAM OF BAMNI RIVER	16	11.03.2023	11.03.2023 To 16.03.2023	7.36	<25	<4.0	<2.0	-
		27.03.2023	27.03.2023 To 29.03.2023	7.34	<25	<4.0	<2.0	-
DOWN STREAM OF BAMNI RIVER	17	11.03.2023	11.03.2023 To 16.03.2023	7.35	<25	<4.0	<2.0	-
		27.03.2023	27.03.2023 To 29.03.2023	7.34	<25	<4.0	<2.0	-
MINE DISCHARGE OF VIJAY WEST U/G	18	11.03.2023	11.03.2023 To 16.03.2023	6.89	90	32	5.1	-
		27.03.2023	27.03.2023 To 29.03.2023	6.87	97	36	5.8	-
KATAI NALA	19	11.03.2023	11.03.2023 To 16.03.2023	6.86	27	16	<2.0	-
		27.03.2023	27.03.2023 To 29.03.2023	6.88	31	20	<2.0	-

Tested by
(Junior Scientific Assistant, Grade-D)

Checked by

Officer In-charge

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.	22061	Report Issue Date	20-02-2023
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927
Sampling By	G R sarode	Date of Sampling	14-01-2023
Sampling Location	Well water of Kendi Village Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	MONTHLY
Sample Condition	APPROPRIATE	Date of Receipt of Sample	17-01-2023
		Sample ID	15627
		Sampling Method	CMPDI/BSP/LSOP
		Date of Analysis	From 14-01-2023 To 20-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO3	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	60.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	18.510	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	BDL	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	1.83	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	BDL	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	BDL	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	0.08	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	5.60	±0.528@20.41
13	Odour none	Main	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Main	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	6.82	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Main	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	NIL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	8.57	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Main	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	206.00	±4.473@592.0
22	Total Hardness mg/l as CaCO3	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	94.00	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	0.21	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
M.G.Krishna Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-02-2023 03:54:23

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.	22057	Report Issue Date	20-02-2023	
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927	
Sampling By	G R sarode	Date of Sampling	14-01-2023	Sample ID 15626
Sampling Location	Borewell Water of Kendi Village Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	MONTHLY	Sampling Method CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	17-01-2023	Date of Analysis From 14-01-2023 To 20-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO ₃	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	30.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	23.339	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	26.99	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	2.67	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	0.18	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	BDL	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	0.07	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	50.17	±0.528@20.41
13	Odour none	Main	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Main	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	6.91	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Main	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	NIL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	2.93	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Main	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	243.00	±4.473@592.0
22	Total Hardness mg/l as CaCO ₃	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	88.00	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	BDL	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
M.G.Krishna Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-02-2023 03:54:23

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.	22053	Report Issue Date	20-02-2023	
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927	
Sampling By	G R sarode	Date of Sampling	14-01-2023	Sample ID 15625
Sampling Location	Borehole water of Project Office Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	MONTHLY	Sampling Method CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	17-01-2023	Date of Analysis From 14-01-2023 To 20-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO ₃	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	25.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	22.534	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	5.50	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	4.33	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	0.34	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	BDL	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	BDL	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	1.04	±0.528@20.41
13	Odour none	Main	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Main	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	7.14	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Main	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	NIL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	45.24	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Main	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	238.00	±4.473@592.0
22	Total Hardness mg/l as CaCO ₃	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	94.00	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	0.01	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
M.G.Krishna Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-02-2023 03:54:23

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.		25701		Report Issue Date			
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sapan	Date of Sampling	16-02-2023	Sample ID	15939		
Sampling Location	Well water of Kendi Village Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	As per monthly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	17-02-2023	Date of Analysis	From 16-02-2023 To 10-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO3	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	125.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	38.136	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	8.50	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120.C	1.0 - 500	5	15	BDL	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	1.26	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	0.07	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	0.07	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	3.91	±0.528@20.41
13	Odour none	Site	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Site	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	6.87	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530.C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Site	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	BDL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	BDL	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Site	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	276.00	±4.473@592.0
22	Total Hardness mg/l as CaCO3	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	108.43	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	0.07	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
Salim Khan Santosh Kumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :

JSA

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.		25686		Report Issue Date			
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Sapan	Date of Sampling	16-02-2023	Sample ID	15938		
Sampling Location	Borewell Water of Kendi Village Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	As per monthly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	17-02-2023	Date of Analysis	From 16-02-2023 To 10-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO ₃	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	125.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	39.759	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	10.00	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	4.15	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	0.71	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	0.06	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	0.06	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	3.98	±0.528@20.41
13	Odour none	Site	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Site	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	6.93	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Site	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	BDL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	BDL	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Site	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	172.00	±4.473@592.0
22	Total Hardness mg/l as CaCO ₃	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	98.39	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	0.06	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
Salim Khan

Santosh Kumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :

JSA

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.	25671	Report Issue Date		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927
Sampling By	Sapan	Date of Sampling	16-02-2023	Sample ID 15937
Sampling Location	Borehole water of Project Office Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	As per monthly plan	Sampling Method CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	17-02-2023	Date of Analysis From 16-02-2023 To 10-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO ₃	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	110.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	26.776	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	10.50	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	1.08	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	0.83	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	0.07	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	0.07	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	3.93	±0.528@20.41
13	Odour none	Site	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Site	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	6.95	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Site	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	BDL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	2.72	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Site	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	136.00	±4.473@592.0
22	Total Hardness mg/l as CaCO ₃	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	92.37	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	0.13	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
Salim Khan Santosh Kumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :

JSA

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.	28123	Report Issue Date	27-03-2023
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927
Sampling By	P Oram	Date of Sampling	10-03-2023
Sampling Location	Well water of Kendi Village Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	As per monthly plan
Sample Condition	APPROPRIATE	Date of Receipt of Sample	11-03-2023
		Sample ID	16316
		Sampling Method	CMPDI/BSP/LSOP
		Date of Analysis	From 13-03-2023 To 24-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO3	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	378.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	93.413	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	57.07	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	1.08	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	1.00	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	BDL	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	BDL	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	13.92	±0.528@20.41
13	Odour none	Main	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Main	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	7.75	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Main	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	BDL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	25.52	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Main	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	481.00	±4.473@592.0
22	Total Hardness mg/l as CaCO3	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	226.18	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	BDL	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	BDL	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
Sanjivkumar Singh Manojkumar Baghel

Reviewed and Approved
C. Kumaravel
Manager (Env)
Date&Time :27-03-2023 03:49:42

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.		28114		Report Issue Date		27-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	P Oram	Date of Sampling	10-03-2023	Sample ID	16315		
Sampling Location	Borewell Water of Kendi Village Vijay West U/G (Under Rani- Atari Area)		Sampling Plan	As per monthly plan	Sampling Method	CMPDI/BSP/LSOP	
Sample Condition	APPROPRIATE		Date of Receipt of Sample	11-03-2023	Date of Analysis	From 13-03-2023 To 24-03-2023	

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO ₃	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	388.50	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	62.275	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	51.62	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	1.85	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	1.10	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	BDL	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	BDL	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	13.32	±0.528@20.41
13	Odour none	Main	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Main	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	7.57	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Main	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	BDL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	32.13	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Main	APHA, 23rd Edition, 9221 B	-	Nil	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	1390.00	±4.473@592.0
22	Total Hardness mg/l as CaCO ₃	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	255.94	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	1.50	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	BDL	±0.0013@0.01

----- END OF THE REPORT -----

Reported By
Sanjivkumar Singh Manojkumar Baghel

Reviewed and Approved
C. Kumaravel
Manager (Env)
Date&Time :27-03-2023 03:49:42

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TEST & SAMPLING REPORT OF (DRINKING WATER)

Unique Report No.	28587	Report Issue Date	27-03-2023
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927
Sampling By	P Oram	Date of Sampling	10-03-2023
Sampling Location	Borehole water of Project Office Vijay West U/G (Under Rani- Atari Area)	Sampling Plan	As per monthly plan
Sample Condition	APPROPRIATE	Date of Receipt of Sample	11-03-2023
		Sample ID	16314
		Sampling Method	CMPDI/BSP/LSOP
		Date of Analysis	From 13-03-2023 To 26-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range of Testing	IS 10500:2012		Observed Value	UOM (at 95% C.L&K=1.96)
					Acceptable Limit	Permissible Limit		
1	Alkalinity mg/l as CaCO ₃	Main	IS 3025(Part 23):1986,R 2003	5.0 - 1000.0	200	1000	168.00	±0.19696@10.0
2	Arsenic mg/l	Main	IS 3025 (Part 37):1988,R 2003	0.002 - 0.040	0.01	0.05	BDL	±0.0081@0.018
3	Boron mg/l	Main	APHA, 23rd Edition,2017, 4500-B	0.5 - 14.0	0.5	1	BDL	±0.310@5.16
4	Calcium mg/l	Main	IS 3025 (Part 40): 1991, R : 2009	5.0 - 500.0	75	200	58.283	±2.512@99.8
5	Chlorides mg/l	Main	IS 3025(Part 32):1988 , R : 2007	5.0 - 1000.0	250	1000	7.94	±6.551@253.5
6	Colour Hazen	Main	APHA, 23rd Edition,2017, 2120. C	1.0 - 500	5	15	2.62	±1.05@ 49.86
7	Copper mg/l	Main	IS 3025 (Part 42) : 1992 R : 2009	0.03 - 10.0	0.05	1.5	BDL	±0.13@4.90
8	Fluoride mg/l	Main	APHA, 23rd Edition,2017, 4500, F- D	0.1 - 5.0	1.0	1.5	0.73	±0.014@0.98
9	Iron mg/l	Main	IS 3025 (Part 53) :2003, R:2009	0.05 - 15.0	0.3	No Relaxation	0.06	±0.0782@7.95
10	Lead mg/l	Main	APHA, 23rd Edition,2017, 3113B	0.0050 - 0.1000	0.01	No relaxation	BDL	±0.000266@0.005
11	Manganese mg/l	Main	IS 3025 (Part 59) : 2006	0.05 - 5.0	0.1	0.3	0.07	±0.026@2.44
12	Nitrate mg/l	Main	APHA, 23rd Edition,2017, 4500, B	0.5 - 45	45	No Relaxation	1.57	±0.528@20.41
13	Odour none	Main	IS 3025 (Part 5):1983	-	Agreeable	Agreeable	Agreeable	Not applicable
14	pH Value none	Main	IS 3025 (Part 11):1983, R : 2012	4.00 - 10.00	6.5 - 8.5	No Relaxation	7.05	±0.127@7.01
15	Phenolic compounds mg/l	Main	APHA, 23rd Edition,2017, 5530. C	0.001 - 0.2	0.001	0.002	BDL	±0.0204 at 0.1004
16	Residual Free Chlorine mg/l	Main	APHA, 23rd Edition,2017, 4500G	0.1 - 10.0	0.2	1	BDL	±0.0082@0.1
17	Selenium mg/l	Main	IS 3025 (Part 56):2003	0.001 - 0.040	0.01	No Relaxation	BDL	±0.000938@0.001
18	Sulphate mg/l	Main	APHA, 23rd Edition,2017, 4500-SO42- E	2.0 - 40.0	200	400	18.55	±0.640@19.88
19	Total Chromium mg/l	Main	IS 3025 (Part 52) : 2003	0.05 - 15.0	0.05	No relaxation	BDL	±0.004@0.05
20	Total Coliform MPN/100 ml	Main	APHA, 23rd Edition, 9221 B	-	Null	No Relaxation	BDL	Not specified
21	Total Dissolved Solids mg/l	Main	IS 3025 (Part 16):1984 R : 2006	30.0 - 2000.0	500	2000	209.00	±4.473@592.0
22	Total Hardness mg/l as CaCO ₃	Main	IS 3025 (Part 21):2009	4.0 - 2000.0	200	600	111.10	±11.545@612.8
23	Turbidity NTU	Main	IS 3025 (Part 10):1984, R : 2006	1.0 - 100.0	1	5	2.11	±0.855@41.58
24	Zinc mg/l	Main	IS 3025 (Part 49) : 1994, R : 2009	0.01 - 2.0	5	15	0.08	±0.0013@0.01

----- END OF THE REPORT -----

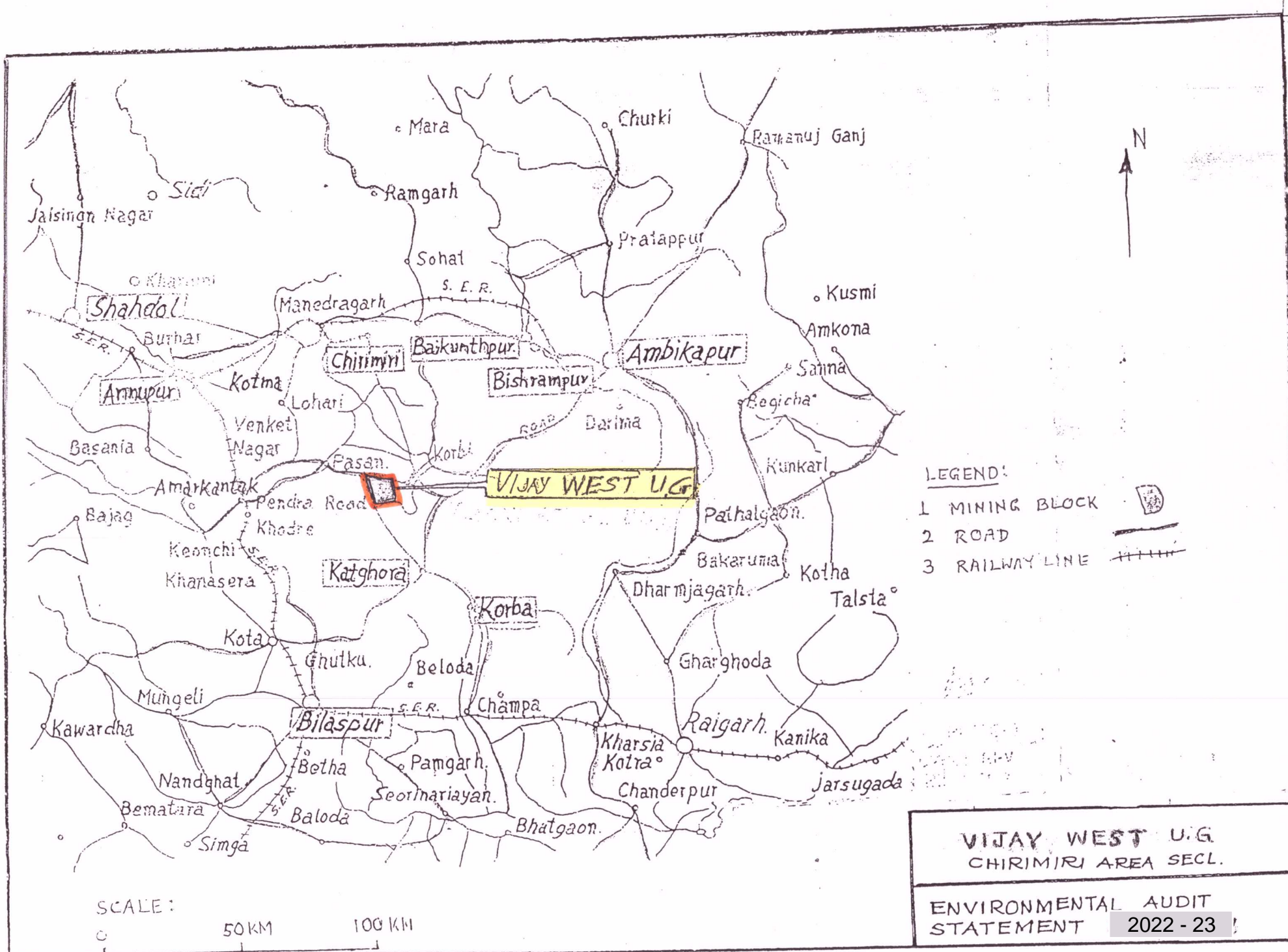
Reported By
Sanjivkumar Singh

Reviewed and Approved
C. Kumaravel
Manager (Env)
Date&Time :27-03-2023 03:49:42



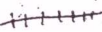
JSA

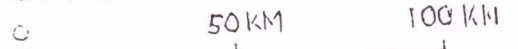
Note:

- * This is computer generated report and does not require signature
- a. The results relate only to the item sampled and tested.
- b. This report shall not be reproduced except in full without approval of the laboratory.



LEGEND:

- 1 MINING BLOCK 
- 2 ROAD 
- 3 RAILWAY LINE 

SCALE:


VIJAY WEST U.G.
 CHIRIMIRI AREA SECL.

ENVIRONMENTAL AUDIT
 STATEMENT 2022 - 23