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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	1-2

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
1. Near Loading Point	A-O	03.10.2022	10.10.2022	485	225	65	26	34
		07.10.2022	10.10.2022	490	240	64	27	33
		11.10.2022	18.10.2022	505	245	75	30	37
		13.10.2022	18.10.2022	501	248	72	28	36
		17.10.2022	25.10.2022	492	244	62	25	32
		19.10.2022	25.10.2022	480	235	60	23	30
		21.10.2022	26.10.2022	488	242	63	26	31
		26.10.2022	03.11.2022	498	246	66	28	35
2. Chirhitti Village	B	03.10.2022	10.10.2022	190	90	51	22	27
		07.10.2022	10.10.2022	185	80	48	21	26
		11.10.2022	18.10.2022	180	74	50	25	29
		13.10.2022	18.10.2022	202	96	62	22	26
		17.10.2022	25.10.2022	195	88	58	21	28
		19.10.2022	25.10.2022	192	90	55	20	25
		21.10.2022	26.10.2022	188	85	52	21	27
		26.10.2022	03.11.2022	194	92	57	22	26
28.10.2022	03.10.2022	198	92	58	23	30		

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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	3-4

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
3. Rajendra Colony	B	03.10.2022	10.10.2022	144	62	40	14	20	
		07.10.2022	10.10.2022	140	64	38	15	21	
		11.10.2022	18.10.2022	142	65	42	12	17	
		13.10.2022	18.10.2022	138	58	41	13	18	
		17.10.2022	25.10.2022	145	65	45	11	16	
		19.10.2022	25.10.2022	135	55	39	16	22	
		21.10.2022	26.10.2022	143	61	44	15	23	
		26.10.2022	03.11.2022	137	52	38	11	17	
		28.10.2022	03.11.2022	142	65	40	13	20	
4. Sub Station	A-O	03.10.2022	10.10.2022	395	180	55	21	28	
		07.10.2022	10.10.2022	410	185	60	23	29	
		11.10.2022	18.10.2022	402	182	62	22	27	
		13.10.2022	18.10.2022	398	178	58	23	30	
		17.10.2022	25.10.2022	406	184	61	24	29	
		19.10.2022	25.10.2022	412	188	64	25	32	
		21.10.2022	26.10.2022	415	186	66	23	27	
		26.10.2022	03.11.2022	420	190	65	21	29	
		28.10.2022	03.11.2022	405	195	62	20	27	

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Manager-Environment 

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

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AIR QUALITY REPORT

Month	October	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	5-6

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
5. Near Main Gate	A-O	03.10.2022	10.10.2022	506	255	75	26	33	
		07.10.2022	10.10.2022	510	260	78	28	34	
		11.10.2022	18.10.2022	498	245	66	30	37	
		13.10.2022	18.10.2022	515	264	80	29	35	
		17.10.2022	25.10.2022	495	248	64	32	39	
		19.10.2022	25.10.2022	505	252	72	31	36	
		21.10.2022	26.10.2022	512	262	76	33	38	
		26.10.2022	03.11.2022	494	244	68	34	40	
		28.10.2022	03.11.2022	520	260	73	35	41	
6. SAM Office	A-O	03.10.2022	10.10.2022	360	155	55	17	23	
		07.10.2022	10.10.2022	355	152	52	16	24	
		11.10.2022	18.10.2022	345	160	45	18	25	
		13.10.2022	18.10.2022	362	165	50	15	20	
		17.10.2022	25.10.2022	350	165	58	19	26	
		19.10.2022	25.10.2022	348	158	44	14	19	
		21.10.2022	26.10.2022	365	162	54	18	24	
		26.10.2022	03.11.2022	358	150	49	19	27	
		28.10.2022	03.11.2022	352	158	52	18	25	

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AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	7-8

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
7. Kanhat Village	B	03.10.2022	10.10.2022	145	68	38	12	18	
		07.10.2022	10.10.2022	150	72	40	14	19	
		11.10.2022	18.10.2022	140	65	39	10	16	
		13.10.2022	18.10.2022	152	74	42	11	18	
		17.10.2022	25.10.2022	148	62	37	13	19	
		19.10.2022	25.10.2022	138	60	35	10	17	
		21.10.2022	26.10.2022	142	64	40	12	20	
		26.10.2022	03.11.2022	155	62	44	11	18	
		28.10.2022	03.11.2022	144	65	40	12	20	
8. Navgaon Village	B	03.10.2022	10.10.2022	140	64	36	10	17	
		07.10.2022	10.10.2022	143	62	39	09	15	
		11.10.2022	18.10.2022	137	65	35	11	18	
		13.10.2022	18.10.2022	139	61	38	12	20	
		17.10.2022	25.10.2022	144	63	40	13	21	
		19.10.2022	25.10.2022	142	64	41	10	19	
		21.10.2022	26.10.2022	145	66	38	14	21	
		26.10.2022	03.11.2022	135	65	37	13	19	
		28.10.2022	03.11.2022	145	64	39	10	16	

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NOISE QUALITY REPORT

Month	October	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	N1-N8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
1. Near Loading Point	A	08.10.2022	68.5	62.8	
		17.10.2022	65.8	58.0	
2. Chirhitti Village	C	08.10.2022	47.5	44.2	
		17.10.2022	47.3	41.9	
3. Rajendra Colony	C	08.10.2022	47.6	42.9	
		17.10.2022	48.6	43.1	
4. Sub Station	A	08.10.2022	50.2	46.3	
		17.10.2022	50.2	48.9	
5. Near Main Gait	A	08.10.2022	61.3	53.2	
		17.10.2022	61.8	57.9	
6. SAM Office	A	08.10.2022	53.0	47.5	
		17.10.2022	54.2	50.6	
7. Kanhat Village	C	08.10.2022	45.9	42.4	
		17.10.2022	44.7	42.8	
8. Navgaon Colony	C	08.10.2022	44.7	45.4	
		17.10.2022	44.1	41.8	

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213176		Report Issue Date		20-10-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet Singh	Date of Sampling	14-10-2022	Sample ID	12988		
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 16-10-2022 To 18-10-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	17.44	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.56	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	53.30	±0.445 @ 24.429

Reported By
Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-10-2022 05:06:56

JSA

Note:

- * This is computer generated report and does not require signature
- * General Standards for Discharge of Environmental Pollution(Part A:Effluent) as per Schedule VI,Environment (Protection) Rules
- a. The results relate only to the item sampled and tested.
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214445		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHAMAN	Date of Sampling	31-10-2022	Sample ID	13152		
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 04-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.09	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:05

JSA

Note:

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- * General Standards for Discharge of Environmental Pollution(Part A:Effluent) as per Schedule VI,Environment (Protection) Rules
- a. The results relate only to the item sampled and tested.
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AIR QUALITY REPORT

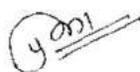
Month	NOVEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	1-2

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B 200	100	60	80	80		
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
1. Near Loading Point	A-O	01.11.2022	07.11.2022	512	240	70	28	35
		04.11.2022	07.11.2022	480	242	60	25	30
		08.11.2022	15.11.2022	490	235	64	26	32
		10.11.2022	15.11.2022	510	245	68	27	34
		14.11.2022	22.11.2022	485	246	63	24	30
		16.11.2022	22.11.2022	495	228	62	25	31
		18.11.2022	22.11.2022	505	245	65	27	33
		23.11.2022	28.11.2022	450	215	58	24	31
		29.11.2022	05.12.2022	475	225	60	26	33
2. Chirhitti Village	B	02.11.2022	07.11.2022	185	80	55	21	28
		07.11.2022	15.11.2022	175	78	52	20	25
		09.11.2022	15.11.2022	195	92	58	26	32
		11.11.2022	15.11.2022	178	82	56	20	27
		15.11.2022	22.11.2022	194	94	57	22	29
		17.11.2022	22.11.2022	201	92	59	24	32
		21.11.2022	28.11.2022	193	88	58	23	30
		24.11.2022	28.11.2022	172	78	48	20	27
		28.11.2022	05.12.2022	182	85	52	23	29



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AIR QUALITY REPORT

Month	November	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	3-4

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
3. Rajendra Colony	B	02.11.2022	07.11.2022	140	58	38	15	21	
		07.11.2022	15.11.2022	145	60	40	16	22	
		09.11.2022	15.11.2022	137	51	35	11	18	
		11.11.2022	15.11.2022	142	60	38	14	21	
		15.11.2022	22.11.2022	148	62	50	13	20	
		17.11.2022	22.11.2022	132	50	32	12	19	
		21.11.2022	28.11.2022	144	62	39	14	20	
		24.11.2022	28.11.2022	150	65	45	16	22	
		28.11.2022	05.12.2022	147	67	46	14	19	
4. Sub Station	A-O	01.11.2022	07.11.2022	405	190	64	23	30	
		04.11.2022	07.11.2022	380	175	62	22	28	
		08.11.2022	15.11.2022	410	190	65	24	31	
		10.11.2022	15.11.2022	385	182	63	22	29	
		14.11.2022	22.11.2022	398	188	62	24	30	
		16.11.2022	22.11.2022	395	186	65	23	29	
		18.11.2022	22.11.2022	410	192	63	25	32	
		23.11.2022	28.11.2022	408	185	60	23	31	
		29.11.2022	05.12.2022	394	180	58	24	30	



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Manager-Environment

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AIR QUALITY REPORT

Month	November	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	5-6

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
5. Near Main Gate	A-O	01.11.2022	07.11.2022	501	250	72	26	33	
		04.11.2022	07.11.2022	495	248	68	23	30	
		08.11.2022	15.11.2022	505	252	75	27	34	
		10.11.2022	15.11.2022	510	266	75	28	36	
		14.11.2022	22.11.2022	503	258	70	30	37	
		16.11.2022	22.11.2022	498	255	71	28	35	
		18.11.2022	22.11.2022	508	265	74	29	36	
		25.11.2022	28.11.2022	496	252	65	28	34	
		29.11.2022	05.12.2022	515	268	74	32	39	
6. SAM Office	A-O	01.11.2022	07.11.2022	355	152	58	19	25	
		04.11.2022	07.11.2022	360	158	56	20	26	
		08.11.2022	15.11.2022	350	162	52	17	24	
		10.11.2022	15.11.2022	354	150	55	16	22	
		14.11.2022	22.11.2022	348	148	50	17	23	
		16.11.2022	22.11.2022	352	157	48	15	22	
		18.11.2022	22.11.2022	368	165	58	19	25	
		23.11.2022	28.11.2022	346	145	44	15	23	
		29.11.2022	05.12.2022	351	152	56	17	24	



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AIR QUALITY REPORT

Month	NOVEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	7-8

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
7. Kanhat Village	B	02.11.2022	07.11.2022	154	70	40	13	20	
		07.11.2022	15.11.2022	145	65	38	12	18	
		09.11.2022	15.11.2022	152	68	43	14	21	
		11.11.2022	15.11.2022	155	72	41	10	16	
		15.11.2022	22.11.2022	142	64	38	11	17	
		17.11.2022	22.11.2022	140	62	35	14	20	
		21.11.2022	28.11.2022	156	66	44	13	19	
		24.11.2022	28.11.2022	150	63	37	10	17	
		28.11.2022	05.12.2022	144	60	35	13	21	
8. Navgaon Village	B	02.11.2022	07.11.2022	136	62	32	09	15	
		07.11.2022	15.11.2022	138	64	34	11	17	
		09.11.2022	15.11.2022	140	68	40	13	18	
		11.11.2022	15.11.2022	144	63	38	14	21	
		15.11.2022	22.11.2022	150	70	44	15	23	
		17.11.2022	22.11.2022	142	67	48	14	20	
		21.11.2022	28.11.2022	148	63	37	11	17	
		24.11.2022	28.11.2022	146	64	35	10	16	
		28.11.2022	05.12.2022	152	66	39	16	22	



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NOISE QUALITY REPORT

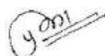
Month	November	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.11.2022
Name of the Project	Rajendra UG	Sample Reference No.	N1-N8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
1. Near Loading Point	A	10.11.2022	62.7	57.2	
		22.11.2022	60.0	57.3	
2. Chirhitti Village	C	10.11.2022	45.9	42.3	
		22.11.2022	44.8	41.7	
3. Rajendra Colony	C	10.11.2022	46.3	43.3	
		22.11.2022	45.8	42.6	
4. Sub Station	A	10.11.2022	46.8	44.1	
		22.11.2022	52.2	50.2	
5. Near Main Gate	A	10.11.2022	61.4	58.0	
		22.11.2022	63.5	60.8	
6. SAM Office	A	10.11.2022	48.7	45.5	
		22.11.2022	49.0	47.7	
7. Kanhat Village	C	10.11.2022	46.2	44.7	
		22.11.2022	44.1	40.7	
8. Navgaon Colony	C	10.11.2022	45.3	43.9	
		22.11.2022	41.7	41.0	



Sampled by



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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214665		Report Issue Date		17-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Anil Kumar Yadav	Date of Sampling	05-11-2022	Sample ID	13217		
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 09-11-2022 To 13-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.34	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.00	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :17-11-2022 10:23:44

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216638		Report Issue Date		15-12-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14503		
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.10	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :15-12-2022 02:45:55

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TC-7401

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214666		Report Issue Date		17-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Anil Kumar Yadav	Date of Sampling	05-11-2022	Sample ID	13218		
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 09-11-2022 To 13-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.31	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :17-11-2022 10:23:44

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216640		Report Issue Date		15-12-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14504		
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.52	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :15-12-2022 02:45:55

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214667		Report Issue Date		17-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Anil Kumar Yadav	Date of Sampling	05-11-2022	Sample ID	13219		
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 09-11-2022 To 13-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.58	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	24.00	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :17-11-2022 10:23:44

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216642		Report Issue Date		15-12-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14505		
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.51	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :15-12-2022 02:45:55

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Note:

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AIR QUALITY REPORT

Month	DECEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Rajendra UG	Sample Reference No.	1-2

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B 200	100	60	80	80		
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
1. Near Loading Point	A-O	01.12.2022	05.12.2022	485	245	64	29	37
		06.12.2022	13.12.2022	505	242	66	27	33
		09.12.2022	13.12.2022	510	248	68	25	31
		12.012.202	25.12.2022	495	240	65	28	35
		15.12.2022	25.12.2022	515	252	71	28	35
		19.12.2022	26.12.2022	480	235	59	26	33
		22.12.2022	26.12.2022	508	246	63	27	34
		26.12.2022	03.01.2023	490	246	61	26	33
		29.12.2022	03.01.2023	478	230	55	24	31
2. Chirhitti Village	B	02.12.2022	05.12.2022	170	75	51	20	27
		07.12.2022	13.12.2022	185	81	55	21	26
		10.12.2022	13.12.2022	175	78	50	22	28
		13.12.2022	25.12.2022	190	85	57	23	29
		16.12.2022	25.12.2022	180	78	52	20	27
		20.12.2022	26.12.2022	184	80	56	23	30
		23.12.2022	26.12.2022	192	88	57	21	28
		27.12.2022	03.01.2023	187	74	53	19	25
		30.12.2022	03.01.2023	183	77	54	22	30



Sampled by



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Manager-Environment

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AIR QUALITY REPORT

Month	DECEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Rajendra UG	Sample Reference No.	3-4

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
3. Rajendra Colony	B	02.12.2022	05.12.2022	135	50	34	14	20	
		07.12.2022	13.12.2022	142	65	38	15	21	
		10.12.2022	13.12.2022	145	62	40	12	19	
		13.12.2022	25.12.2022	151	61	41	11	18	
		16.12.2022	25.12.2022	155	58	42	13	19	
		20.12.2022	26.12.2022	132	60	43	11	19	
		23.12.2022	26.12.2022	154	55	44	15	22	
		27.12.2022	03.01.2023	148	57	39	14	20	
		30.12.2022	03.01.2023	150	68	48	16	23	
4. Sub Station	A-O	01.12.2022	05.12.2022	390	177	60	24	31	
		06.12.2022	13.12.2022	385	172	59	23	30	
		09.12.2022	13.12.2022	395	180	62	22	29	
		12.012.202	25.12.2022	410	188	65	24	31	
		15.12.2022	25.12.2022	375	165	56	21	28	
		19.12.2022	26.12.2022	405	185	63	24	31	
		22.12.2022	26.12.2022	388	175	64	24	30	
		26.12.2022	03.01.2023	394	183	61	21	28	
		29.12.2022	03.01.2023	415	187	66	25	32	

Sampled by 

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Manager-Environment 

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AIR QUALITY REPORT

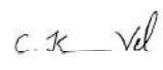
Month	DECEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Rajendra UG	Sample Reference No.	5-6

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
5. Near Main Gate	A-O	01.12.2022	05.12.2022	498	245	70	25	32	
		06.12.2022	13.12.2022	520	255	72	29	36	
		09.12.2022	13.12.2022	512	252	75	28	36	
		12.012.202	25.12.2022	490	240	66	24	31	
		15.12.2022	25.12.2022	510	248	68	26	33	
		19.12.2022	26.12.2022	503	244	65	25	32	
		22.12.2022	26.12.2022	508	246	71	27	34	
		26.12.2022	03.01.2023	495	243	64	25	32	
		29.12.2022	03.01.2023	497	241	66	32	39	
6. SAM Office	A-O	01.12.2022	05.12.2022	365	158	60	21	28	
		06.12.2022	13.12.2022	348	140	52	18	24	
		09.12.2022	13.12.2022	351	152	54	18	25	
		12.012.202	25.12.2022	362	160	58	20	26	
		15.12.2022	25.12.2022	355	157	55	19	27	
		19.12.2022	26.12.2022	345	145	46	17	24	
		22.12.2022	26.12.2022	349	140	48	16	22	
		26.12.2022	03.01.2023	358	147	45	16	23	
		29.12.2022	03.01.2023	363	162	61	22	29	

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AIR QUALITY REPORT

Month	DECEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Rajendra UG	Sample Reference No.	7-8

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
7. Kanhat Village	B	01.12.2022	05.12.2022	142	65	44	12	18	
		06.12.2022	13.12.2022	150	67	48	14	20	
		09.12.2022	13.12.2022	145	64	46	13	21	
		13.12.2022	25.12.2022	140	68	38	11	19	
		16.12.2022	25.12.2022	155	71	49	15	22	
		19.12.2022	26.12.2022	152	66	44	12	19	
		22.12.2022	26.12.2022	148	65	45	14	22	
		26.12.2022	03.01.2023	158	72	50	14	20	
8. Navgaon Village	B	29.12.2022	03.01.2023	143	62	41	10	18	
		02.12.2022	05.12.2022	144	65	38	11	18	
		07.12.2022	13.12.2022	140	62	35	10	16	
		10.12.2022	13.12.2022	135	55	32	09	15	
		13.12.2022	25.12.2022	138	58	34	10	17	
		16.12.2022	25.12.2022	146	67	47	13	19	
		20.12.2022	26.12.2022	152	70	55	15	22	
		23.12.2022	26.12.2022	138	60	37	12	18	
		27.12.2022	03.01.2023	151	65	40	11	19	
30.12.2022	03.01.2023	145	59	44	13	20			

Sampled by 

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Manager-Environment 

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NOISE QUALITY REPORT

Month	DECEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	Rajendra UG	Sample Reference No.	N1-N8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
1. Near Loading Point	A	07.12.2022	51.5	50.3	
		23.12.2022	63.7	55.2	
2. Chirhitti Village	C	07.12.2022	52.1	48.6	
		23.12.2022	44.1	40.6	
3. Rajendra Colony	C	07.12.2022	51.4	48.6	
		23.12.2022	44.6	43.8	
4. Sub Station	A	07.12.2022	50.5	49.7	
		23.12.2022	48.6	48.0	
5. Near Main Gate	A	07.12.2022	51.7	45.8	
		23.12.2022	64.4	54.4	
6. SAM Office	A	07.12.2022	48.9	49.5	
		23.12.2022	55.2	49.2	
7. Kanhat Village	C	07.12.2022	50.7	48.3	
		23.12.2022	43.4	40.2	
8. Navgaon Colony	C	07.12.2022	49.6	47.3	
		23.12.2022	45.1	40.3	


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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	16717	Report Issue Date	02-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	RAHMAN	Date of Sampling	04-12-2022	Sample ID	14558
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	05-12-2022	Date of Analysis	From 06-12-2022 To 30-12-2022

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.01	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :02-01-2023 10:49:03

JSA

Note:
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20953	Report Issue Date	12-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KR.SINGH	Date of Sampling	25-12-2022	Sample ID	15305
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDI/BS/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.36	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-01-2023 10:33:24

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	16718	Report Issue Date	02-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	RAHMAN	Date of Sampling	04-12-2022	Sample ID	14559
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	05-12-2022	Date of Analysis	From 06-12-2022 To 30-12-2022

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.84	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.00	±0.445 @ 24.429

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :02-01-2023 10:49:03

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20957	Report Issue Date	12-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KR.SINGH	Date of Sampling	25-12-2022	Sample ID	15306
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.34	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-01-2023 10:33:24

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	16719	Report Issue Date	02-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHMAN	Date of Sampling	04-12-2022	Sample ID	14560
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	05-12-2022	Date of Analysis	From 06-12-2022 To 30-12-2022

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.16	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.81	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	15.00	±0.445 @ 24.429

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :02-01-2023 10:49:03

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20961		Report Issue Date		12-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KR.SINGH	Date of Sampling	25-12-2022	Sample ID	15307		
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.24	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.20	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)

Date&Time :12-01-2023 10:33:24

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	18970	Report Issue Date	31-12-2022		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	PATEL	Date of Sampling	14-12-2022	Sample ID	15270
Sampling Location	Input of Rajendra Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	19-12-2022	Date of Analysis	From 24-12-2022 To 27-12-2022

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	8.40	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.66	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	20.00	±0.445 @ 24.429

Reported By
Badvel Sreedhar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :31-12-2022 10:37:10

JSA

Note:
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20949	Report Issue Date	12-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KR.SINGH	Date of Sampling	25-12-2022	Sample ID	15304
Sampling Location	Input of Rajendra Rajendra U/G	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.26	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-01-2023 10:33:23

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		18973		Report Issue Date		31-12-2022	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	PATEL		Date of Sampling	14-12-2022	Sample ID	15271	
Sampling Location	Out put of Rajendra Rajendra U/G		Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP	
Sample Condition	APPROPRIATE		Date of Receipt of Sample	19-12-2022	Date of Analysis	From 24-12-2022 To 27-12-2022	

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	5.60	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.88	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	30.00	±0.445 @ 24.429

Reported By
Badvel Sreedhar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :31-12-2022 10:37:10

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20965		Report Issue Date		12-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KR.SINGH	Date of Sampling	25-12-2022	Sample ID	15308		
Sampling Location	Out put of Rajendra Rajendra U/G	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.16	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :12-01-2023 10:33:24

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AIR QUALITY REPORT

Month	JANUARY	Area	Sohagpur	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	07/02/2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA1-SRAA2

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA1. Near Loading Point	A-O	02.01.2023	09.01.2023	505	255	63	30	36	
		04.01.2023	09.01.2023	515	260	65	32	38	
		06.01.2023	09.01.2023	495	246	61	24	30	
		10.01.2023	19.01.2023	498	252	64	31	38	
		12.01.2023	19.01.2023	510	250	67	29	37	
		18.01.2023	23.01.2023	508	240	58	25	31	
		20.01.2023	23.01.2023	520	260	71	31	37	
		23.01.2023	30.01.2023	501	252	61	27	33	
SRAA2. Sub Station	A-O	02.01.2023	09.01.2023	370	185	53	21	28	
		04.01.2023	09.01.2023	380	165	58	20	26	
		06.01.2023	09.01.2023	401	190	56	24	30	
		11.01.2023	19.01.2023	375	186	60	25	31	
		12.01.2023	19.01.2023	395	188	62	22	29	
		18.01.2023	23.01.2023	410	194	65	26	32	
		20.01.2023	23.01.2023	405	192	60	23	31	
		23.01.2023	30.01.2023	385	195	63	23	30	
27.01.2023	30.01.2023	408	175	59	25	32			



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AIR QUALITY REPORT

Month	JANUARY	Area	Sohagpur	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	07/02/2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA3-SRAA4

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA3. Near Main Gate	A-O	02.01.2023	09.01.2023	510	249	72	28	35	
		04.01.2023	09.01.2023	505	250	68	26	33	
		06.01.2023	09.01.2023	495	240	70	27	34	
		11.01.2023	19.01.2023	490	245	74	30	36	
		13.01.2023	19.01.2023	520	262	75	32	38	
		18.01.2023	23.01.2023	525	264	74	29	36	
		20.01.2023	23.01.2023	512	258	69	28	36	
		23.01.2023	30.01.2023	518	260	73	31	37	
		27.01.2023	30.01.2023	522	258	75	31	38	
SRAA4. SAM Office	A-O	02.01.2023	09.01.2023	370	160	62	22	29	
		04.01.2023	09.01.2023	355	150	60	20	26	
		09.01.2023	19.01.2023	365	158	58	21	27	
		11.01.2023	19.01.2023	375	165	64	24	30	
		13.01.2023	19.01.2023	380	162	63	24	31	
		18.01.2023	23.01.2023	352	148	57	19	26	
		20.01.2023	23.01.2023	388	166	63	24	30	
		23.01.2023	30.01.2023	360	155	61	22	29	
		27.01.2023	30.01.2023	373	164	62	23	31	



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AIR QUALITY REPORT

Month	JANUARY	Area	Sohagpur	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	07/02/2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA5-SRAA6

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA5. Kanhat Village	B	03.01.2023	09.01.2023	160	72	38	10	16	
		05.01.2023	09.01.2023	145	64	35	11	17	
		09.01.2023	09.01.2023	152	67	40	12	19	
		11.01.2023	19.01.2023	148	65	37	10	16	
		13.01.2023	19.01.2023	157	70	39	12	18	
		19.01.2023	23.01.2023	155	68	36	13	19	
		21.01.2023	23.01.2023	142	61	33	10	17	
		23.01.2023	30.01.2023	159	73	42	13	19	
		27.01.2023	30.01.2023	161	75	45	14	21	
SRAA6. Navgaon Village	B	03.01.2023	09.01.2023	150	62	32	10	17	
		05.01.2023	09.01.2023	140	60	34	11	17	
		09.01.2023	19.01.2023	145	65	36	13	19	
		11.01.2023	19.01.2023	148	66	40	09	16	
		13.01.2023	19.01.2023	138	61	42	11	18	
		19.01.2023	23.01.2023	152	69	39	10	16	
		21.01.2023	23.01.2023	155	72	45	13	20	
		23.01.2023	30.01.2023	142	64	44	14	21	
		27.01.2023	30.01.2023	152	70	38	11	17	



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AIR QUALITY REPORT

Month	JANUARY	Area	Sohagpur	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	07/02/2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA7-SRAA8

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA7. Chirhitti Village	B	03.01.2023	09.01.2023	182	80	55	18	25	
		05.01.2023	09.01.2023	178	78	49	16	24	
		09.01.2023	19.01.2023	194	85	57	23	30	
		11.01.2023	19.01.2023	190	82	60	21	28	
		17.01.2023	23.01.2023	170	74	50	19	25	
		19.01.2023	23.01.2023	175	72	52	20	27	
		21.01.2023	23.01.2023	188	82	56	22	30	
		23.01.2023	30.01.2023	184	78	54	21	27	
		27.01.2023	30.01.2023	192	87	59	24	31	
SRAA8. Rajendra Colony	B	03.01.2023	09.01.2023	145	65	35	13	21	
		05.01.2023	09.01.2023	155	68	40	16	23	
		10.01.2023	19.01.2023	140	62	38	14	20	
		12.01.2023	19.01.2023	138	58	34	12	19	
		17.01.2023	23.01.2023	152	62	44	14	21	
		19.01.2023	23.01.2023	144	63	41	10	18	
		21.01.2023	23.01.2023	136	55	38	10	16	
		23.01.2023	30.01.2023	142	54	34	09	15	
		27.01.2023	30.01.2023	148	64	40	14	22	



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NOISE QUALITY REPORT

Month	JANUARY	Area	Sohagpur	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	07/02/2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAN1-SRAN8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring					
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)		
SRAN1. Near Loading Point	A	09.01.2023	69.4	62.5		
		28.01.2023	59.2	48.0		
SRAN2. Sub Station	A	09.01.2023	56.3	50.5		
		28.01.2023	56.5	46.7		
SRAN3. Near Main Gate	A	09.01.2023	66.4	57.4		
		28.01.2023	60.1	46.2		
SRAN4. SAM Office	A	09.01.2023	49.7	49.4		
		28.01.2023	58.3	46.3		
SRAN5. Kanhat Village	C	09.01.2023	40.3	34.1		
		28.01.2023	45.3	33.7		
SRAN6. Navgaon Village	C	09.01.2023	38.6	34.3		
		28.01.2023	45.4	33.2		
SRAN7. Chirhitti Village	C	09.01.2023	39.3	33.6		
		28.01.2023	45.7	34.4		
SRAN8. Rajendra Colony	C	09.01.2023	35.5	33.4		
		28.01.2023	45.2	33.8		



Sampled by



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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20817	Report Issue Date	18-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15400
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 16-01-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	9.60	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.66	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	108.00	±0.445 @ 24.429

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

Reported By
Badvel Sreedhar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :18-01-2023 10:06:10

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		07752-246371	
			hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22732		Report Issue Date		07-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15704		
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.32	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.29	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	20.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		21660		Report Issue Date		16-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15401		
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 15-01-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.93	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	41.00	±0.445 @ 24.429

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

Reported By
M.G.Krishna

Reviewed and Approved

M. Reagan
Manager (Env)

Date&Time :16-01-2023 10:16:58

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22736		Report Issue Date		07-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15705		
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	48.96	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.27	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	23.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		21664		Report Issue Date		16-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15402		
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 15-01-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	15.36	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.18	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	24.00	±0.445 @ 24.429

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

Reported By
M.G.Krishna

Reviewed and Approved

M. Reagan
Manager (Env)

Date&Time :16-01-2023 10:16:58

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		 www.cmpdi.co.in	 07752-246371

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	22740	Report Issue Date	07-02-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15706
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.44	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	34.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	20816	Report Issue Date	18-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15399
Sampling Location	Input of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 16-01-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	6.40	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.86	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	33.00	±0.445 @ 24.429

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

Reported By
Badvel Sreedhar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :18-01-2023 10:06:10

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22728		Report Issue Date		07-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15703		
Sampling Location	Input of STP Rajendra Colony Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	40.80	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.46	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	29.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		21668		Report Issue Date		16-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15403		
Sampling Location	Output of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 15-01-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	15.36	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.12	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

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

Reported By
M.G.Krishna

Reviewed and Approved

M. Reagan
Manager (Env)

Date&Time :16-01-2023 10:16:58

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		07752-246371	
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22744		Report Issue Date		07-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15707		
Sampling Location	Output of STP Rajendra Colony Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.66	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	37.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

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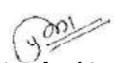
AIR QUALITY REPORT

Month	February	Area	Sohagpur	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA1-SRAA2

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA1. Near Loading Point	A-O	01.02.2023	13.02.2023	516	262	68	31	37	
		03.02.2023	13.02.2023	510	250	62	29	35	
		05.02.2023	13.02.2023	505	240	60	27	33	
		13.02.2023	20.02.2023	518	265	70	32	39	
		15.02.2023	20.02.2023	495	238	58	26	32	
		20.02.2023	01.03.2023	502	242	61	30	36	
		22.02.2023	01.03.2023	508	255	59	28	34	
		24.02.2023	01.03.2023	490	235	55	25	31	
SRAA2. Sub Station	A-O	01.02.2023	13.02.2023	410	188	62	27	33	
		03.02.2023	13.02.2023	396	175	60	26	32	
		05.02.2023	13.02.2023	402	178	58	27	34	
		13.02.2023	20.02.2023	385	168	55	24	30	
		15.02.2023	20.02.2023	415	190	65	28	35	
		20.02.2023	01.03.2023	388	180	59	25	31	
		22.02.2023	01.03.2023	408	170	62	26	32	
		24.02.2023	01.03.2023	405	180	61	24	31	

Analyzed by 

Checked by 

Manager-Environment 

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

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AIR QUALITY REPORT

Month	February	Area	Sohagpur	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA3-SRAA4

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA3. Near Main Gate	A-O	01.02.2023	13.02.2023	525	260	80	32	38	
		03.02.2023	13.02.2023	510	256	65	28	35	
		05.02.2023	13.02.2023	505	250	63	25	33	
		13.02.2023	20.02.2023	520	257	78	29	35	
		15.02.2023	20.02.2023	497	248	66	28	34	
		20.02.2023	01.03.2023	530	267	82	33	39	
		22.02.2023	01.03.2023	508	261	67	30	37	
		24.02.2023	01.03.2023	532	270	74	34	41	
SRAA4. SAM Office	A-O	01.02.2023	13.02.2023	385	170	62	23	30	
		03.02.2023	13.02.2023	370	160	59	21	27	
		13.02.2023	20.02.2023	390	175	65	24	31	
		15.02.2023	20.02.2023	380	168	60	25	32	
		17.02.2023	20.02.2023	375	165	61	24	30	
		20.02.2023	01.03.2023	382	162	58	22	29	
		22.02.2023	01.03.2023	368	160	55	22	28	
		24.02.2023	01.03.2023	395	178	66	26	32	

Analyzed by 

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Manager-Environment 

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AIR QUALITY REPORT

Month	February	Area	Sohagpur	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA5-SRAA6

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA5. Kanhath Village	B	02.02.2023	13.02.2023	165	75	42	13	20	
		03.02.2023	13.02.2023	155	70	38	12	18	
		13.02.2023	20.02.2023	145	65	35	10	17	
		14.02.2023	20.02.2023	150	68	38	11	18	
		16.02.2023	20.02.2023	160	72	40	13	19	
		21.02.2023	01.03.2023	148	71	41	14	20	
		23.02.2023	01.03.2023	168	76	44	14	22	
		25.02.2023	01.03.2023	159	72	45	15	21	
SRAA6. Navaon Village	B	02.02.2023	13.02.2023	144	65	30	11	19	
		04.02.2023	13.02.2023	160	70	40	13	20	
		13.02.2023	20.02.2023	152	68	41	12	18	
		14.02.2023	20.02.2023	150	70	43	14	20	
		16.02.2023	20.02.2023	140	64	39	12	19	
		21.02.2023	01.03.2023	145	65	38	10	17	
		23.02.2023	01.03.2023	155	70	42	12	19	
		25.02.2023	01.03.2023	148	66	36	11	18	

Analyzed by 

Checked by 


 Manager-Environment

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AIR QUALITY REPORT

Month	February	Area	Sohagpur	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA7-SRAA8

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA7. Chirhitti Village	B	02.02.2023	13.02.2023	170	77	45	15	21	
		04.02.2023	13.02.2023	175	80	51	16	23	
		13.02.2023	20.02.2023	180	82	52	14	20	
		15.02.2023	20.02.2023	178	78	49	15	21	
		16.02.2023	20.02.2023	185	85	54	17	24	
		21.02.2023	01.03.2023	190	87	55	19	26	
		23.02.2023	01.03.2023	182	81	50	18	25	
		25.02.2023	01.03.2023	187	83	53	17	24	
SRAA8. Rajendra Colony	B	02.02.2023	13.02.2023	150	65	38	12	18	
		04.02.2023	13.02.2023	145	62	35	11	17	
		13.02.2023	20.02.2023	148	61	37	10	16	
		15.02.2023	20.02.2023	154	66	40	14	21	
		16.02.2023	20.02.2023	137	60	34	09	17	
		21.02.2023	01.03.2023	140	64	36	11	19	
		23.02.2023	01.03.2023	144	63	38	12	18	
		25.02.2023	01.03.2023	155	67	41	15	21	

Analyzed by 

Checked by 

Manager-Environment 

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NOISE QUALITY REPORT

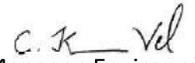
Month	February	Area	Sohagpur	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAN1-SRAN8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
SRAN1. Near Loading Point	A	17.02.2023	65.5	59.5	
		22.02.2023	56.5	41.5	
SRAN2. Sub Station	A	17.02.2023	63.2	52.4	
		22.02.2023	56.9	42.3	
SRAN3. Near Main Gate	A	17.02.2023	67.0	62.1	
		22.02.2023	58.4	44.5	
SRAN4. SAM Office	A	17.02.2023	56.7	50.4	
		22.02.2023	56.3	43.5	
SRAN5. Kanhat Village	C	17.02.2023	48.5	40.5	
		22.02.2023	41.4	37.5	
SRAN6. Navgaon Village	C	17.02.2023	44.3	38.5	
		22.02.2023	43.4	36.6	
SRAN7. Chirhitti Village	C	17.02.2023	48.0	42.6	
		22.02.2023	42.5	36.7	
SRAN8. Rajendra Colony	C	17.02.2023	44.5	36.5	
		22.02.2023	44.5	37.0	

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	23003	Report Issue Date	25-02-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15836
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.59	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :25-02-2023 10:12:31

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Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26387		Report Issue Date		10-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16094		
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.52	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Santosh Kumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :10-03-2023 11:23:43

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23004		Report Issue Date		25-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15837		
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.59	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)

Date&Time :25-02-2023 10:12:31

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26149	Report Issue Date	09-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16095
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.71	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :09-03-2023 10:26:56

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	23005	Report Issue Date	25-02-2023		
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15838
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.34	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	15.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :25-02-2023 10:12:31

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26153	Report Issue Date	09-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16096
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.88	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :09-03-2023 10:26:56

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23002		Report Issue Date		25-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15835		
Sampling Location	Input of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.47	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :25-02-2023 10:12:31

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26386		Report Issue Date		10-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16093		
Sampling Location	Input of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.37	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Santosh Kumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :10-03-2023 11:23:43

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23006		Report Issue Date		25-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15839		
Sampling Location	Output of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.21	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	16.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :25-02-2023 10:12:31

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	26157	Report Issue Date	09-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16097
Sampling Location	Output of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.88	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :09-03-2023 10:26:56

JSA

Note:

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AIR QUALITY REPORT

Month	March	Area	Sohagpur	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA1-SRAA2

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
SRAA1. Near Loading Point	A-O	01.03.2023	09.03.2023	505	257	65	30	36
		03.03.2023	09.03.2023	520	260	68	32	38
		09.03.2023	16.03.2023	515	255	61	28	35
		11.03.2023	16.03.2023	510	261	68	33	40
		14.03.2023	16.03.2023	522	272	71	35	41
		20.03.2023	26.03.2023	497	251	56	29	35
		23.03.2023	26.03.2023	507	264	62	27	33
		27.03.2023	31.03.2023	518	267	68	34	41
SRAA2. Sub Station	A-O	01.03.2023	09.03.2023	372	169	58	26	32
		02.03.2023	09.03.2023	410	185	62	28	34
		09.03.2023	16.03.2023	420	195	65	27	33
		11.03.2023	16.03.2023	390	175	60	25	31
		14.03.2023	16.03.2023	395	179	63	27	34
		20.03.2023	26.03.2023	406	182	61	26	32
		23.03.2023	26.03.2023	375	168	56	23	30
		27.03.2023	31.03.2023	418	190	66	29	35
		29.03.2023	31.03.2023	370	165	54	22	29

Analyzed by 

Checked by 

Manager-Environment 

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AIR QUALITY REPORT

Month	March	Area	Sohagpur	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA3-SRAA4

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA3. Near Main Gate	A-O	01.03.2023	09.03.2023	485	245	62	26	32	
		03.03.2023	09.03.2023	520	260	70	32	39	
		09.03.2023	16.03.2023	515	255	68	27	34	
		11.03.2023	16.03.2023	532	260	75	33	39	
		14.03.2023	16.03.2023	512	254	65	30	36	
		20.03.2023	26.03.2023	525	265	81	32	38	
		23.03.2023	26.03.2023	505	252	64	29	36	
		27.03.2023	31.03.2023	498	250	66	31	38	
		29.03.2023	31.03.2023	510	261	68	28	34	
SRAA4. SAM Office	A-O	01.03.2023	09.03.2023	390	175	63	24	30	
		03.03.2023	09.03.2023	380	171	61	23	29	
		09.03.2023	16.03.2023	370	165	58	21	27	
		11.03.2023	16.03.2023	396	179	68	26	33	
		14.03.2023	16.03.2023	385	170	63	23	31	
		20.03.2023	26.03.2023	375	167	60	21	28	
		23.03.2023	26.03.2023	402	180	73	25	31	
		27.03.2023	31.03.2023	398	172	67	24	30	
		29.03.2023	31.03.2023	384	163	57	24	32	



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AIR QUALITY REPORT

Month	March	Area	Sohagpur	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA5-SRAA6

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA5. Kanhat Village	B	02.03.2023	09.03.2023	156	72	43	14	21	
		04.03.2023	09.03.2023	160	74	44	13	20	
		09.03.2023	16.03.2023	152	70	41	12	19	
		11.03.2023	16.03.2023	145	67	36	10	16	
		14.03.2023	16.03.2023	158	70	39	11	18	
		21.03.2023	26.03.2023	165	75	45	15	22	
		23.03.2023	26.03.2023	150	69	38	13	19	
		27.03.2023	31.03.2023	163	71	42	10	18	
SRAA6. Navgaon Village	B	02.03.2023	09.03.2023	152	70	38	12	18	
		04.03.2023	09.03.2023	148	68	38	11	17	
		09.03.2023	16.03.2023	155	71	43	14	20	
		11.03.2023	16.03.2023	158	72	45	15	21	
		14.03.2023	16.03.2023	145	66	40	13	20	
		21.03.2023	26.03.2023	140	63	35	09	15	
		23.03.2023	26.03.2023	160	74	46	16	21	
		27.03.2023	31.03.2023	150	73	42	13	19	
		29.03.2023	31.03.2023	154	72	45	14	20	



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AIR QUALITY REPORT

Month	March	Area	Sohagpur	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAA7-SRAA8

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
SRAA7. Chirhitti Village	B	02.03.2023	09.03.2023	165	75	43	14	20	
		04.03.2023	09.03.2023	181	78	45	15	22	
		10.03.2023	16.03.2023	170	71	42	16	24	
		13.03.2023	16.03.2023	185	84	51	15	21	
		15.03.2023	16.03.2023	174	70	46	13	20	
		21.03.2023	26.03.2023	169	73	47	17	23	
		24.03.2023	26.03.2023	178	78	48	16	22	
		27.03.2023	31.03.2023	180	80	44	18	25	
SRAA8. Rajendra Colony	B	02.03.2023	09.03.2023	142	62	34	10	16	
		04.03.2023	09.03.2023	135	60	32	09	15	
		10.03.2023	16.03.2023	152	66	38	13	20	
		13.03.2023	16.03.2023	144	63	37	12	18	
		15.03.2023	16.03.2023	140	65	32	10	17	
		21.03.2023	26.03.2023	150	68	40	14	20	
		24.03.2023	26.03.2023	155	70	43	11	17	
		27.03.2023	31.03.2023	138	58	34	12	19	
29.03.2023	31.03.2023	153	64	39	13	20			

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Manager-Environment

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NOISE QUALITY REPORT

Month	March	Area	Sohagpur	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	Rajendra UG	Sample Reference No.	SRAN1-SRAN8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
SRAN1. Near Loading Point	A	12.03.2023	63.5	42.5	
		21.03.2023	61.5	56.7	
SRAN2. Sub Station	A	12.03.2023	58.6	43.4	
		21.03.2023	59.2	55.5	
SRAN3. Near Main Gate	A	12.03.2023	57.4	56.7	
		21.03.2023	62.4	54.7	
SRAN4. SAM Office	A	12.03.2023	56.7	43.5	
		21.03.2023	59.1	51.6	
SRAN5. Kanhat Village	C	12.03.2023	42.5	37.6	
		21.03.2023	47.3	36.5	
SRAN6. Navgaon Village	C	12.03.2023	43.4	36.1	
		21.03.2023	45.2	37.2	
SRAN7. Chirhitti Village	C	12.03.2023	42.5	36.6	
		21.03.2023	51.1	38.1	
SRAN8. Rajendra Colony	C	12.03.2023	44.5	36.9	
		21.03.2023	41.3	36.7	


Sampled by


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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28458	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16262
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.21	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :27-03-2023 03:49:41

JSA

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		07752-246371	
			hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28917	Report Issue Date	30-03-2023
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927
Sampling By	Devendra	Date of Sampling	18-03-2023
Sampling Location	Mine Discharge S-1 Rajendra U/G	Sampling Plan	As per fortnightly plan
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023
		Sample ID	16450
		Sampling Method	CMPDI/BSP/LSOP
		Date of Analysis	From 07-03-2023 To 27-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.63	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±0.445 @ 24.429

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

Reported By
Salim Khan

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28459	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16263
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.44	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :27-03-2023 03:49:41

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28921		Report Issue Date		30-03-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16451		
Sampling Location	Mine Discharge S-2 Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.62	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	16.00	±0.445 @ 24.429

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

Reported By
Salim Khan

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28460	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16264
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.24	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

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Kumaravel. C
Manager (Env)
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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28925		Report Issue Date		30-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16452		
Sampling Location	Mine Discharge S-3 Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.63	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±0.445 @ 24.429

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

Reported By
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Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28457	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16261
Sampling Location	Input of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.35	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :27-03-2023 03:49:41

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28913		Report Issue Date		30-03-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra		Date of Sampling	18-03-2023	Sample ID	16449	
Sampling Location	Input of STP Rajendra Colony Rajendra U/G		Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP	
Sample Condition	APPROPRIATE		Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023	

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.63	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

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

Reported By
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Manager (Env)
Date&Time :30-03-2023 03:08:52

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28461	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16265
Sampling Location	Output of STP Rajendra Colony Rajendra U/G	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.18	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :27-03-2023 03:49:41

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28929		Report Issue Date		30-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16453		
Sampling Location	Output of STP Rajendra Colony Rajendra U/G	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.61	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±0.445 @ 24.429

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

Reported By
Salim Khan

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Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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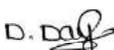
AIR QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	SHARDA O.C.M	Sample Reference No.	30-31

Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Parameter		PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks	
	Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)	A-O	600	300	-	120	120		
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)	A-N	500	250	-	120	120		
		B	200	100	60	80	80		
Method of analysis			IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)				±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis						
30.Mine Site Office	A-O	06.10.2022	10.10.2022	474	242	55	14	20	
		10.10.2022	17.10.2022	456	232	58	15	21	
		12.10.2022	18.10.2022	485	225	59	12	17	
		14.10.2022	21.10.2022	456	189	54	13	18	
		17.10.2022	26.10.2022	478	196	56	11	16	
		19.10.2022	27.10.2022	489	175	52	16	22	
		21.20.2022	28.10.2022	448	158	54	15	23	
		26.10.2022	31.10.2022	445	145	53	11	17	
		28.10.2022	02.11.2022	465	163	52	12	24	
31. Near Loading Point	A-O	06.10.2022	10.10.2022	395	180	55	21	28	
		10.10.2022	17.10.2022	410	185	60	23	29	
		12.10.2022	18.10.2022	402	182	62	22	27	
		14.10.2022	21.10.2022	398	178	58	23	30	
		17.10.2022	26.10.2022	406	184	61	24	29	
		19.10.2022	27.10.2022	412	188	64	25	32	
		21.20.2022	28.10.2022	415	186	66	23	27	
		26.10.2022	31.10.2022	415	175	59	24	29	
		28.10.2022	02.11.2022	420	190	65	21	29	

Analyzed by 

Checked by 

Manager-Environment 

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AIR QUALITY REPORT

Month	October	Area	Sohagpur	Report No	BSP/SGP/2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	SHARDA O.C.M	Sample Reference No.	32-33

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
32.Rungta Colony	B	06.10.2022	10.10.2022	144	62	40	14	20	
		10.10.2022	17.10.2022	140	64	38	15	21	
		12.10.2022	18.10.2022	142	65	42	12	17	
		14.10.2022	21.10.2022	138	58	41	13	18	
		17.10.2022	26.10.2022	145	65	45	11	16	
		19.10.2022	27.10.2022	135	55	39	16	22	
		21.20.2022	28.10.2022	143	61	44	15	23	
		26.10.2022	31.10.2022	166	72	45	16	24	
28.10.2022	02.11.2022	137	52	38	11	17			
33. Bakho Village	B	06.10.2022	10.10.2022	155	62	41	21	28	
		10.10.2022	17.10.2022	148	77	42	23	29	
		12.10.2022	18.10.2022	159	72	45	22	27	
		14.10.2022	21.10.2022	162	78	43	23	30	
		17.10.2022	26.10.2022	145	65	38	24	29	
		19.10.2022	27.10.2022	150	86	42	25	32	
		21.20.2022	28.10.2022	142	77	42	23	27	
		26.10.2022	31.10.2022	152	62	45	22	25	
28.10.2022	02.11.2022	142	75	46	21	29			


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NOISE QUALITY REPORT

Month	OCTOBER	Area	Sohagpur	Report No	BSP/SGP/ 2022/10
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	24.11.2022
Name of the Project	SHARDA O.C.M	Sample Reference No.	N35-38

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
35. Mine Site Office	A	10.10.2022	61.4	44.5	
		18.10.2022	55.5	41.5	
36. Near Loading Point	A	10.10.2022	41.3	36.0	
		18.10.2022	43.4	40.7	
37. Rungta Colony	C	10.10.2022	46.5	36.7	
		18.10.2022	47.5	45.5	
38. Bakho Village	C	10.10.2022	42.3	35.1	
		18.10.2022	45.3	40.4	


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 www.cmpdi.co.in	 07752-246371	 hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213192		Report Issue Date		20-10-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet Singh	Date of Sampling	14-10-2022	Sample ID	12992		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 16-10-2022 To 18-10-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.45	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-10-2022 05:06:56

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214449		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHAMAN	Date of Sampling	31-10-2022	Sample ID	13154		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 04-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.02	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:05

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	TC-74012213196	Report Issue Date	20-10-2022		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	Amarjeet Singh	Date of Sampling	14-10-2022	Sample ID	12993
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 16-10-2022 To 18-10-2022

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.49	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-10-2022 05:06:56

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214451		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHAMAN	Date of Sampling	31-10-2022	Sample ID	13155		
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 04-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.43	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:05

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012213188		Report Issue Date		20-10-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet Singh	Date of Sampling	14-10-2022	Sample ID	12991		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	16-10-2022	Date of Analysis	From 16-10-2022 To 18-10-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.42	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Deepanwita Bin

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :20-10-2022 05:06:56

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214447		Report Issue Date		11-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHAMAN	Date of Sampling	31-10-2022	Sample ID	13153		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	As Per Monthly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	31-10-2022	Date of Analysis	From 01-11-2022 To 04-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.22	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :11-11-2022 10:20:05

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AIR QUALITY REPORT

Month	NOVEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	19.12.2022
Name of the Project	SHARDA O.C.M	Sample Reference No.	01-02

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
01. Mine Site Office	A-O	01.11.2022	07.11.2022	462	235	62	18	25	
		04.11.2022	08.11.2022	457	234	60	16	23	
		08.11.2022	14.11.2022	481	229	57	18	19	
		10.11.2022	16.11.2022	466	187	56	16	20	
		14.11.2022	21.11.2022	473	190	54	17	25	
		16.11.2022	22.11.2022	472	172	56	20	26	
		18.11.2022	25.11.2022	415	156	55	21	24	
		22.11.2022	29.11.2022	449	147	54	12	27	
		25.11.2022	02.12.2022	434	165	52	18	23	
02. Near Loading Point	A-O	01.11.2022	07.11.2022	387	177	54	24	29	
		04.11.2022	08.11.2022	415	186	61	22	31	
		08.11.2022	14.11.2022	412	187	63	24	31	
		10.11.2022	16.11.2022	394	176	57	25	34	
		14.11.2022	21.11.2022	409	189	63	26	28	
		16.11.2022	22.11.2022	417	184	65	27	32	
		18.11.2022	25.11.2022	422	186	66	25	27	
		22.11.2022	29.11.2022	421	177	57	26	31	
		25.11.2022	02.12.2022	425	193	63	23	28	


Analyzed by


Checked by


Manager-Environment

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AIR QUALITY REPORT

Month	NOVEMBER	Area	Sohagpur	Report No	BSP/SGP/2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	19.12.2022
Name of the Project	SHARDA O.C.M	Sample Reference No.	03-04

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
3. Rungta Colony	B	01.11.2022	07.11.2022	151	64	42	20	27
		04.11.2022	08.11.2022	148	63	37	18	26
		08.11.2022	14.11.2022	147	67	43	16	28
		10.11.2022	16.11.2022	139	56	42	17	24
		14.11.2022	21.11.2022	147	66	46	19	26
		16.11.2022	22.11.2022	137	69	41	18	27
		18.11.2022	25.11.2022	147	67	42	18	26
		22.11.2022	29.11.2022	162	75	44	19	27
		25.11.2022	02.12.2022	152	58	38	19	30
4. Bakho Village	B	01.11.2022	07.11.2022	162	64	43	23	29
		04.11.2022	08.11.2022	151	74	47	24	24
		08.11.2022	14.11.2022	154	73	49	20	29
		10.11.2022	16.11.2022	169	78	47	21	33
		14.11.2022	21.11.2022	152	65	41	22	32
		16.11.2022	22.11.2022	153	84	46	21	34
		18.11.2022	25.11.2022	144	76	48	18	35
		22.11.2022	29.11.2022	155	65	45	20	32
				25.11.2022	02.12.2022	148	77	44


Analyzed by


Checked by


Manager-Environment

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NOISE QUALITY REPORT

Month	NOVEMBER	Area	Sohagpur	Report No	BSP/SGP/ 2022/11
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	21.12.2022
Name of the Project	SHARDA O.C.M	Sample Reference No.	N35-38

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
35. Mine Site Office	A	10.11.2022	49.5	46.0	
		23.11.2022	55.5	52.0	
36. Near Loading Point	A	10.11.2022	61.1	56.5	
		23.11.2022	56.3	51.8	
37. Rungta Colony	C	10.11.2022	46.6	42.6	
		23.11.2022	43.4	35.4	
38. Bakho Village	C	10.11.2022	42.8	41.1	
		23.11.2022	39.4	34.8	


Sampled by


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CMPDI Complex, Seepat Road, Bilaspur (C.G)-495006

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TC-7401

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214669		Report Issue Date		17-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Anil Kumar Yadav	Date of Sampling	05-11-2022	Sample ID	13221		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 09-11-2022 To 14-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.44	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	12.00	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :17-11-2022 10:23:44

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216646		Report Issue Date		15-12-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14507		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.42	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :15-12-2022 02:45:55

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214670		Report Issue Date		17-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Anil Kumar Yadav	Date of Sampling	05-11-2022	Sample ID	13222		
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 09-11-2022 To 14-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.50	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :17-11-2022 10:23:44

JSA

Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216647		Report Issue Date		15-12-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14508		
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.08	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :15-12-2022 02:45:55

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012214668		Report Issue Date		17-11-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Anil Kumar Yadav	Date of Sampling	05-11-2022	Sample ID	13220		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	Fortnightly Plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	07-11-2022	Date of Analysis	From 09-11-2022 To 14-11-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.41	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.00	±0.445 @ 24.429

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :17-11-2022 10:23:44

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		TC-74012216644		Report Issue Date		15-12-2022	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Abhishek	Date of Sampling	25-11-2022	Sample ID	14506		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	FORTNIGHTLY	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	27-11-2022	Date of Analysis	From 27-11-2022 To 12-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.50	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Nirmal Kumar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :15-12-2022 02:45:55

JSA

Note:

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AIR QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-01,02

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
01. Manager Office	A-O	02.12.2022	05.12.2022	461	224	61	20	25
		05.12.2022	12.12.2022	452	229	62	22	23
		09.12.2022	13.12.2022	480	221	56	24	24
		13.12.2022	19.12.2022	463	185	57	23	26
		16.12.2022	21.12.2022	474	189	55	19	25
		19.12.2022	26.12.2022	472	174	53	23	26
		22.12.2022	27.12.2022	416	151	54	24	24
		27.12.2022	02.01.2023	445	142	55	19	27
		30.12.2022	04.01.2023	432	165	53	21	23
02.Near Loading Point	A-O	02.12.2022	05.12.2022	384	176	55	23	29
		05.12.2022	12.12.2022	412	183	58	24	33
		09.12.2022	13.12.2022	413	184	63	22	34
		13.12.2022	19.12.2022	395	175	55	22	36
		16.12.2022	21.12.2022	406	180	63	21	38
		19.12.2022	26.12.2022	414	182	65	23	37
		22.12.2022	27.12.2022	425	185	66	24	39
		27.12.2022	02.01.2023	426	174	57	23	36
		30.12.2022	04.01.2023	422	190	63	26	38

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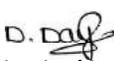
AIR QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-03,04

Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Parameter		PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
		Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)	A-O	600	300	-	120	
		A-N	500	250	-	120	120	
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)	B	200	100	60	80	80	
Method of analysis			IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)				±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis					
3.Near Sharda Temple (Highwall Workshop)	A-O	02.12.2022	05.12.2022	462	235	62	18	25
		05.12.2022	12.12.2022	457	234	60	16	23
		09.12.2022	13.12.2022	481	229	57	18	19
		13.12.2022	19.12.2022	466	187	56	16	20
		16.12.2022	21.12.2022	473	190	54	17	25
		19.12.2022	26.12.2022	472	172	56	20	26
		22.12.2022	27.12.2022	415	156	55	21	24
		27.12.2022	02.01.2023	449	147	54	12	27
		30.12.2022	04.01.2023	434	165	52	18	23
4.Transport Office	A-O	02.12.2022	05.12.2022	387	177	54	24	29
		05.12.2022	12.12.2022	415	186	61	22	31
		09.12.2022	13.12.2022	412	187	63	24	31
		13.12.2022	19.12.2022	394	176	57	25	34
		16.12.2022	21.12.2022	409	189	63	26	28
		19.12.2022	26.12.2022	417	184	65	27	32
		22.12.2022	27.12.2022	422	186	66	25	27
		27.12.2022	02.01.2023	421	177	57	26	31
		30.12.2022	04.01.2023	425	193	63	23	28

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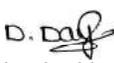
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AIR QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
Name of the Customer	South Eastern Coalfields Ltd, Bilaspur		Date of Issue	18.01.2023	
Name of the Project	SHARDA O.C.M		Sample Reference No.	SGP-05,06	

Limit (in $\mu\text{g}/\text{m}^3$)-24 hrs	Parameter		PM ₁₀₀	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Remarks
		Industrial Zone -(G.S.R. 742(E), dated 25.09.2000)	A-O	600	300	-	120	
		A-N	500	250	-	120	120	
	Residential Zone-(G.S.R. 826(E), dated 16.11.2009 and GSR 176 (E), 02.04.1996)	B	200	100	60	80	80	
Method of analysis			IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)				±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis					
5.Bakhi Village	B	03.12.2022	05.12.2022	151	64	42	20	27
		07.12.2022	12.12.2022	148	63	37	18	26
		10.12.2022	13.12.2022	147	67	43	16	28
		14.12.2022	19.12.2022	139	56	42	17	24
		17.12.2022	21.12.2022	147	66	46	19	26
		21.12.2022	26.12.2022	137	69	41	18	27
		24.12.2022	27.12.2022	147	67	42	18	26
		28.12.2022	02.01.2023	162	75	44	19	27
		31.12.2022	04.01.2023	152	58	38	19	30
6. Rungta Colony Dispensary	B	03.12.2022	05.12.2022	162	64	43	23	29
		07.12.2022	12.12.2022	151	74	47	24	24
		10.12.2022	13.12.2022	154	73	49	20	29
		14.12.2022	19.12.2022	169	78	47	21	33
		17.12.2022	21.12.2022	152	65	41	22	32
		21.12.2022	26.12.2022	153	84	46	21	34
		24.12.2022	27.12.2022	144	76	48	18	35
		28.12.2022	02.01.2023	155	65	45	20	32
		31.12.2022	04.01.2023	148	77	44	21	31

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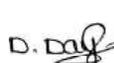
AIR QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-07,08

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
7.Rungta Colony Filter Plant	B	03.12.2022	05.12.2022	157	67	42	20	28	
		07.12.2022	12.12.2022	146	68	34	25	29	
		10.12.2022	13.12.2022	152	62	45	16	29	
		14.12.2022	19.12.2022	153	54	46	18	26	
		17.12.2022	21.12.2022	158	69	43	19	27	
		21.12.2022	26.12.2022	154	65	45	20	29	
		24.12.2022	27.12.2022	174	67	45	19	29	
		28.12.2022	02.01.2023	166	72	46	16	31	
31.12.2022	04.01.2023	169	56	33	22	33			
8.Bakho Village	B	03.12.2022	05.12.2022	174	69	46	23	32	
		07.12.2022	12.12.2022	159	77	46	24	35	
		10.12.2022	13.12.2022	158	79	47	23	26	
		14.12.2022	19.12.2022	165	75	45	23	37	
		17.12.2022	21.12.2022	156	66	46	22	39	
		21.12.2022	26.12.2022	157	81	45	17	39	
		24.12.2022	27.12.2022	155	77	46	22	36	
		28.12.2022	02.01.2023	159	66	44	22	36	
31.12.2022	04.01.2023	156	76	43	21	33			


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NOISE QUALITY REPORT

Month	DECEMBER	Area	SOHAGPUR	Report No	BSP/SGP/2022/12
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	18.01.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-N1-N8

Parameter			The Noise Pollution (R & C) rules, 2000		Remarks
Limit (in dB(A) Leq	Industrial area	A	Day Time	Night Time	
	Commercial area	B	75	70	
	Residential Area	C	65	55	
	Silence Zone	D	55	45	
Method of analysis			CPCB Protocol For Ambient Level Noise Monitoring		
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
01. Manager Office	A	08.12.2022	55.7	48.9	
		22.12.2022	56.7	48.7	
02. Near Loading Point	A	08.12.2022	63.1	51.1	
		22.12.2022	60.0	47.4	
3. Near Sharda Temple (Highwall Workshop)	A	08.12.2022	59.6	47.8	
		22.12.2022	58.0	45.5	
4. Transport Office	A	08.12.2022	63.7	54.1	
		22.12.2022	60.4	45.2	
5. Bakhi Village	C	08.12.2022	46.5	41.5	
		22.12.2022	48.5	34.6	
6. Rungta Colony Dispensary	C	08.12.2022	49.9	46.5	
		22.12.2022	46.0	35.1	
7. Rungta Colony Filter Plant	C	08.12.2022	50.9	47.9	
		22.12.2022	47.4	34.4	
8. Bakho Village	C	08.12.2022	45.2	40.5	
		22.12.2022	44.9	34.5	

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		16721		Report Issue Date		02-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	RAHMAN	Date of Sampling	04-12-2022	Sample ID	14562		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	05-12-2022	Date of Analysis	From 06-12-2022 To 30-12-2022		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.19	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :02-01-2023 10:49:03

JSA

Note:

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		 www.cmpdi.co.in  07752-246371  hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		20969		Report Issue Date		12-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KR.SINGH	Date of Sampling	25-12-2022	Sample ID	15309		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHT PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-12-2022	Date of Analysis	From 30-12-2022 To 11-01-2023		

Sr.No	Parameter	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.25	±0.1272 at 7.0074
4	Total suspended Solids mg/l	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

Reported By
Salim Khan

Reviewed and Approved
M. Reagan
Manager (Env)

Date&Time :12-01-2023 10:33:24

JSA

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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-01,02

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B 200	100	60	80	80		
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
01. Manager Office	A-O	02.01.2023	09.01.2023	462	224	61	22	27
		04.01.2023	10.01.2023	453	233	62	23	24
		09.01.2023	16.01.2023	471	228	53	23	23
		11.01.2023	17.01.2023	452	188	55	24	25
		16.01.2023	23.01.2023	470	186	59	20	24
		18.01.2023	30.01.2023	471	175	59	23	25
		23.01.2023	31.01.2023	423	153	56	24	28
		27.01.2023	03.02.2023	448	149	57	23	29
02.Near Loading Point	A-O	02.01.2023	09.01.2023	382	181	52	24	28
		04.01.2023	10.01.2023	413	180	57	25	32
		09.01.2023	16.01.2023	414	182	61	23	33
		11.01.2023	17.01.2023	399	178	53	23	34
		16.01.2023	23.01.2023	413	183	67	24	35
		18.01.2023	30.01.2023	418	184	65	25	33
		23.01.2023	31.01.2023	429	183	63	22	36
		27.01.2023	03.02.2023	443	174	55	23	34
29.01.2023	05.02.2023	432	193	66	25	35		

Analyzed by 

Checked by 

Manager-Environment 

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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-03,04

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
3.Near Sharda Temple (Highwall Workshop)	A-O	02.01.2023	09.01.2023	462	235	62	18	25
		04.01.2023	10.01.2023	454	234	60	16	23
		09.01.2023	16.01.2023	483	229	57	18	19
		11.01.2023	17.01.2023	465	187	56	16	20
		16.01.2023	23.01.2023	474	190	54	17	25
		18.01.2023	30.01.2023	472	172	56	20	26
		23.01.2023	31.01.2023	422	156	55	21	24
		27.01.2023	03.02.2023	452	147	54	12	27
4.Transport Office	A-O	02.01.2023	09.01.2023	388	176	56	23	31
		04.01.2023	10.01.2023	428	182	62	24	30
		09.01.2023	16.01.2023	419	184	63	25	30
		11.01.2023	17.01.2023	396	175	57	22	32
		16.01.2023	23.01.2023	410	183	68	23	29
		18.01.2023	30.01.2023	419	184	66	25	33
		23.01.2023	31.01.2023	423	185	65	23	28
		27.01.2023	03.02.2023	422	176	54	25	30
		29.01.2023	05.02.2023	424	188	66	20	29

Analyzed by 

Checked by 

Manager-Environment 

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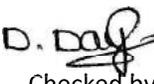
AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-05,06

Parameter				PM ₁₀₀	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 25.09.2000)			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), 02.04.1996)			B	200	100	60	80		80
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis							
5.Bakhi Village	B	03.01.2023	11.01.2023	161	67	44	22	26		
		05.01.2023	12.01.2023	153	66	36	24	24		
		09.01.2023	17.01.2023	149	65	43	18	25		
		12.01.2023	19.01.2023	143	55	44	23	27		
		16.01.2023	24.01.2023	148	64	43	21	26		
		19.01.2023	27.01.2023	139	53	47	20	27		
		23.01.2023	31.01.2023	144	65	42	22	25		
		28.01.2023	04.02.2023	162	73	43	23	27		
30.01.2023	06.02.2023	155	67	42	23	28				
6. Rungta Colony Dispensary	B	03.01.2023	11.01.2023	164	63	44	24	31		
		05.01.2023	12.01.2023	155	74	48	23	27		
		09.01.2023	17.01.2023	154	73	51	22	28		
		12.01.2023	19.01.2023	163	77	49	22	33		
		16.01.2023	24.01.2023	155	66	46	20	34		
		19.01.2023	27.01.2023	157	83	47	24	33		
		23.01.2023	31.01.2023	149	74	48	19	34		
		28.01.2023	04.02.2023	155	65	46	20	33		
30.01.2023	06.02.2023	143	74	49	23	35				


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AIR QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-07,08

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in µg/m ³)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
7.Rungta Colony Filter Plant	B	03.01.2023	11.01.2023	154	71	44	21	27	
		05.01.2023	12.01.2023	148	66	47	23	28	
		09.01.2023	17.01.2023	152	64	43	18	26	
		12.01.2023	19.01.2023	158	58	44	19	27	
		16.01.2023	24.01.2023	153	69	48	22	26	
		19.01.2023	27.01.2023	151	68	49	23	28	
		23.01.2023	31.01.2023	176	66	38	17	26	
		28.01.2023	04.02.2023	164	77	44	16	32	
30.01.2023	06.02.2023	168	53	36	22	28			
8.Bakho Village	B	03.01.2023	11.01.2023	174	67	43	24	31	
		05.01.2023	12.01.2023	163	76	46	23	31	
		09.01.2023	17.01.2023	157	74	47	27	28	
		12.01.2023	19.01.2023	165	75	43	25	32	
		16.01.2023	24.01.2023	153	64	37	23	33	
		19.01.2023	27.01.2023	155	77	44	20	24	
		23.01.2023	31.01.2023	156	73	40	19	29	
		28.01.2023	04.02.2023	157	68	39	21	28	
30.01.2023	06.02.2023	152	72	41	20	31			

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Manager-Environment 

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NOISE QUALITY REPORT

Month	JANUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/01
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-N1-N8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
01. Manager Office	A	12.01.2023	55.5	51.9	
		24.01.2023	56.3	50.4	
02. Near Loading Point	A	12.01.2023	61.2	57.4	
		24.01.2023	54.4	49.6	
3. Near Sharda Temple (Highwall Workshop)	A	12.01.2023	60.8	54.6	
		24.01.2023	57.7	51.2	
4. Transport Office	A	12.01.2023	46.0	43.1	
		24.01.2023	60.7	56.5	
5. Bakhi Village	C	12.01.2023	45.1	41.6	
		24.01.2023	44.7	44.2	
6. Rungta Colony Dispensary	C	12.01.2023	45.1	41.9	
		24.01.2023	44.5	39.3	
7. Rungta Colony Filter Plant	C	12.01.2023	45.3	42.9	
		24.01.2023	41.5	34.8	
8. Bakho Village	C	12.01.2023	44.5	41.4	
		24.01.2023	42.5	40.7	



Sampled by



Checked by



Manager-Environment

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hk.gour@coalindia.in

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		21676		Report Issue Date		16-01-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15405		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 15-01-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	107.52	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	4.40	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	6.98	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	190.00	±0.445 @ 24.429

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

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :16-01-2023 10:16:58

JSA

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	www.cmpdi.co.in 07752-246371 hk.gour@coalindia.in		

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22752		Report Issue Date		07-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15709		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	24.48	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.43	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	27.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

JSA

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		 www.cmpdi.co.in	 07752-246371

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	21680	Report Issue Date	16-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15406
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 15-01-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.20	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	11.00	±0.445 @ 24.429

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

Reported By
M.G.Krishna

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :16-01-2023 10:16:58

JSA

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		www.cmpdi.co.in	 07752-246371

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22756		Report Issue Date		07-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15710		
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.16	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.57	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	21672	Report Issue Date	16-01-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	AMARJEET KUMAR SINGH	Date of Sampling	06-01-2023	Sample ID	15404
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER MONTHLY PLAN	Sampling Method	CMPDIL/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-01-2023	Date of Analysis	From 10-01-2023 To 15-01-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.02	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
M.G.Krishna

Reviewed and Approved

M. Reagan
Manager (Env)

Date&Time :16-01-2023 10:16:58

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		22748		Report Issue Date		07-02-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Amarjeet	Date of Sampling	21-01-2023	Sample ID	15708		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	23-01-2023	Date of Analysis	From 05-02-2023 To 05-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.16	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.58	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	21.00	±0.445 @ 24.429

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

Reported By
D.Dayakar

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :07-02-2023 01:06:28

JSA

Note:
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AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-01,02

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
01. Manager Office	A-O	01.02.2023	06.02.2023	472	227	62	23	29
		03.02.2023	07.02.2023	463	232	64	24	27
		06.02.2023	13.02.2023	478	227	53	22	28
		13.02.2023	20.02.2023	463	183	54	25	26
		17.02.2023	21.02.2023	458	184	55	22	27
		24.02.2023	27.02.2023	454	178	58	23	25
		26.02.2023	01.03.2023	428	155	59	24	28
02.Near Loading Point	A-O	01.02.2023	06.02.2023	392	183	53	26	29
		04.02.2023	07.02.2023	423	184	57	27	32
		06.02.2023	13.02.2023	424	187	65	24	37
		13.02.2023	20.02.2023	401	175	57	27	34
		17.02.2023	21.02.2023	413	185	65	25	35
		24.02.2023	27.02.2023	415	187	64	27	36
		26.02.2023	01.03.2023	428	188	64	25	37
		28.02.2023	03.03.2023	445	176	55	25	33

Analyzed by 

Checked by 

Manager-Environment 

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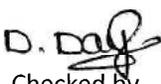
AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-03,04

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
3.Near Sharda Temple (Highwall Workshop)	A-O	01.02.2023	06.02.2023	477	237	63	22	27
		04.02.2023	07.02.2023	463	236	61	23	26
		06.02.2023	13.02.2023	471	232	57	24	27
		13.02.2023	20.02.2023	454	188	57	24	28
		17.02.2023	21.02.2023	472	193	55	22	26
		24.02.2023	27.02.2023	471	174	56	22	27
		26.02.2023	01.03.2023	432	156	58	21	26
4.Transport Office	A-O	01.02.2023	06.02.2023	392	182	57	23	33
		04.02.2023	07.02.2023	434	181	63	24	34
		06.02.2023	13.02.2023	438	184	62	23	32
		13.02.2023	20.02.2023	422	175	59	24	34
		17.02.2023	21.02.2023	432	183	62	25	31
		24.02.2023	27.02.2023	447	184	64	25	32
		26.02.2023	01.03.2023	438	185	62	27	38
	28.02.2023	03.03.2023	441	177	54	25	35	

Analyzed by 

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Manager-Environment 

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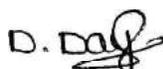
AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-05,06

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
5.Bakhi Village	B	01.02.2023	06.02.2023	163	66	45	22	26	
		04.02.2023	07.02.2023	154	64	36	24	24	
		06.02.2023	13.02.2023	148	63	44	18	25	
		13.02.2023	20.02.2023	146	54	45	23	27	
		17.02.2023	21.02.2023	149	61	43	21	26	
		24.02.2023	27.02.2023	142	54	48	20	27	
		26.02.2023	01.03.2023	143	64	43	22	25	
28.02.2023	03.03.2023	161	74	45	23	29			
6. Rungta Colony Dispensary	B	02.02.2023	06.02.2023	167	64	47	25	32	
		04.02.2023	07.02.2023	158	73	49	23	23	
		06.02.2023	13.02.2023	156	71	53	24	24	
		13.02.2023	20.02.2023	166	74	44	25	30	
		17.02.2023	21.02.2023	158	63	45	25	32	
		24.02.2023	27.02.2023	159	87	48	23	31	
		26.02.2023	01.03.2023	151	75	46	22	32	
28.02.2023	03.03.2023	153	63	47	20	31			

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Manager-Environment 

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AIR QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-07,08

Parameter				PM ₁₀₀	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 25.09.2000)			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), 02.04.1996)			B	200	100	60	80		80
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in µg/m ³)					±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis							
7.Rungta Colony Filter Plant	B	02.02.2023	06.02.2023	156	73	46	22	26		
		05.02.2023	07.02.2023	151	64	45	22	27		
		14.02.2023	20.02.2023	150	65	44	19	25		
		17.02.2023	22.02.2023	153	56	45	20	25		
		22.02.2023	27.02.2023	154	68	39	21	26		
		24.02.2023	28.02.2023	153	69	41	23	27		
		26.02.2023	01.03.2023	177	70	37	18	25		
		28.02.2023	03.03.2023	165	69	42	19	30		
8.Bakho Village	B	02.02.2023	06.02.2023	176	66	43	24	31		
		05.02.2023	07.02.2023	163	71	44	22	31		
		14.02.2023	20.02.2023	154	72	42	23	28		
		17.02.2023	22.02.2023	165	70	45	24	32		
		22.02.2023	27.02.2023	155	61	36	22	33		
		24.02.2023	28.02.2023	157	72	41	21	24		
		26.02.2023	01.03.2023	155	70	41	18	29		
		28.02.2023	03.03.2023	153	68	38	20	28		

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Checked by

Manager-Environment

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

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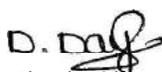
NOISE QUALITY REPORT

Month	FEBRUARY	Area	SOHAGPUR	Report No	BSP/SGP/2023/02
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	13.03.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SGP-N1-N8

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 analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
01. Manager Office	A	15.02.2023	54.2	53.8	
		24.02.2023	54.8	47.9	
02. Near Loading Point	A	15.02.2023	59.6	57.8	
		24.02.2023	54.2	46.6	
3. Near Sharda Temple (Highwall Workshop)	A	15.02.2023	56.8	55.8	
		24.02.2023	52.3	47.8	
4. Transport Office	A	15.02.2023	60.5	57.8	
		24.02.2023	49.5	47.3	
5. Bakhi Village	C	15.02.2023	46.4	42.2	
		24.02.2023	53.5	47.8	
6. Rungta Colony Dispensary	C	15.02.2023	45.8	42.2	
		24.02.2023	51.0	47.7	
7. Rungta Colony Filter Plant	C	15.02.2023	47.4	43.9	
		24.02.2023	52.1	47.3	
8. Bakho Village	C	15.02.2023	43.9	41.0	
		24.02.2023	52.4	45.3	


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Manager-Environment

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23008		Report Issue Date		25-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15841		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.19	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)

Date&Time :25-02-2023 10:12:31

JSA

Note:

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	www.cmpdi.co.in 07752-246371 hk.gour@coalindia.in		

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26165		Report Issue Date		09-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16099		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.37	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	10.00	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :09-03-2023 10:26:56

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Note:

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	23009	Report Issue Date	25-02-2023		
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15842
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.21	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	112.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :25-02-2023 10:12:31

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26169		Report Issue Date		09-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16100		
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.47	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :09-03-2023 10:26:56

JSA

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		23007		Report Issue Date		25-02-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO TAMANG	Date of Sampling	06-02-2023	Sample ID	15840		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	08-02-2023	Date of Analysis	From 14-02-2023 To 23-02-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.22	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

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

Reported By
Sanjivkumar Singh

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :25-02-2023 10:12:31

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		26161		Report Issue Date		09-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	ANIL KUMAR YADAV	Date of Sampling	25-02-2023	Sample ID	16098		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	26-02-2023	Date of Analysis	From 26-02-2023 To 01-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.43	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
M. Reagan
Manager (Env)
Date&Time :09-03-2023 10:26:56

JSA

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AIR QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SSOA01,02

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
01. Manager Office	A-O	01.03.2023	06.03.2023	472	232	63	23	28
		03.03.2023	07.03.2023	463	231	62	23	29
		09.03.2023	14.03.2023	479	229	54	27	27
		11.03.2023	15.03.2023	454	189	55	26	28
		14.03.2023	20.03.2023	469	184	58	25	29
		21.03.2023	27.03.2023	478	176	56	24	28
		23.03.2023	28.03.2023	425	151	55	25	31
		28.03.2023	01.04.2023	451	142	52	27	25
02.Near Loading Point	A-O	01.03.2023	06.03.2023	387	188	52	25	28
		04.03.2023	07.03.2023	428	183	57	23	32
		09.03.2023	14.03.2023	435	180	61	28	33
		11.03.2023	15.03.2023	417	179	53	26	34
		14.03.2023	20.03.2023	422	184	67	27	35
		21.03.2023	27.03.2023	432	182	65	28	33
		23.03.2023	28.03.2023	425	177	63	29	36
		28.03.2023	01.04.2023	444	175	55	25	34
		30.03.2023	01.04.2023	436	194	66	26	35

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AIR QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SSOA03,04

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
3.Near Sharda Temple (Highwall Workshop)	A-O	01.03.2023	06.03.2023	471	242	63	22	27
		04.03.2023	07.03.2023	463	252	64	21	26
		09.03.2023	14.03.2023	447	232	59	23	24
		11.03.2023	15.03.2023	465	192	62	24	23
		15.03.2023	20.03.2023	471	187	58	20	27
		21.03.2023	27.03.2023	478	176	59	25	28
		23.03.2023	28.03.2023	441	157	58	22	25
		28.03.2023	01.04.2023	452	151	56	27	26
4.Transport Office	A-O	03.03.2023	07.03.2023	393	187	61	27	34
		06.03.2023	13.03.2023	432	189	62	28	33
		09.03.2023	14.03.2023	427	183	51	29	34
		11.03.2023	15.03.2023	403	192	62	28	37
		15.03.2023	20.03.2023	418	187	61	26	35
		21.03.2023	27.03.2023	421	189	63	28	36
		23.03.2023	28.03.2023	423	184	61	29	38
		28.03.2023	01.04.2023	424	188	55	28	32
		30.03.2023	01.04.2023	428	192	60	26	34

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Manager-Environment

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AIR QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SSOA05,06

Parameter				PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B		200	100	60	80	80	
Method of analysis				IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006	
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)					±19.04		±0.0687	±0.4420	
Station Name (Code)	Station category	Date of sampling	Date of analysis						
5.Bakhi Village	B	01.03.2023	06.03.2023	167	63	52	29	31	
		04.03.2023	07.03.2023	162	71	47	27	29	
		09.03.2023	14.03.2023	155	82	49	23	30	
		13.03.2023	19.03.2023	163	79	51	24	32	
		15.03.2023	20.03.2023	157	66	53	28	29	
		21.03.2023	27.03.2023	152	57	52	26	31	
		23.03.2023	28.03.2023	153	68	54	27	32	
		28.03.2023	01.04.2023	148	79	53	26	34	
		30.03.2023	01.04.2023	153	64	54	24	38	
6. Rungta Colony Dispensary	B	01.03.2023	06.03.2023	163	67	47	27	32	
		04.03.2023	07.3.2023	169	71	46	20	27	
		09.03.2023	15.03.2023	167	73	53	28	32	
		13.03.2023	19.03.2023	159	74	52	29	32	
		15.03.2023	20.03.2023	157	65	57	31	34	
		21.03.2023	27.03.2023	159	81	49	28	32	
		23.03.2023	28.03.2023	152	76	48	28	34	
		28.03.2023	01.04.2023	148	67	49	26	33	
		30.03.2023	01.04.2023	146	78	51	29	34	


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AIR QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SSOA07,08

Parameter		PM ₁₀₀	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 25.09.2000)	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), 02.04.1996)	B	200	100	60	80		80
Method of analysis		IS-5182 PART 4:2005	IS-5182 PART 23:2006	USEPA CFR 40, Appendix L to Part 50	IS-5182 PART 2:2001	IS-5182 PART 6:2006		
Uncertainty Range (in $\mu\text{g}/\text{m}^3$)			±19.04		±0.0687	±0.4420		
Station Name (Code)	Station category	Date of sampling	Date of analysis					
7.Rungta Colony Filter Plant	B	03.03.2023	09.03.2023	162	72	48	23	31
		06.03.2023	13.03.2023	153	67	49	27	29
		10.03.2023	15.03.2023	152	63	46	24	27
		13.03.2023	19.03.2023	159	59	43	25	26
		15.03.2023	20.03.2023	151	64	53	26	28
		21.03.2023	27.03.2023	158	65	52	24	29
		24.03.2023	28.03.2023	179	62	39	25	28
		28.03.2023	01.04.2023	164	79	56	23	32
8.Bakho Village	B	03.03.2023	09.03.2023	177	69	43	28	32
		06.03.2023	13.03.2023	166	78	48	29	37
		10.03.2023	15.03.2023	158	79	43	27	32
		13.03.2023	19.03.2023	169	81	39	26	35
		15.03.2023	20.03.2023	157	73	41	28	36
		22.03.2023	27.03.2023	163	79	43	23	34
		24.03.2023	28.03.2023	159	76	45	24	28
		28.03.2023	01.04.2023	171	71	39	24	29
30.03.2023	01.04.2023	163	79	43	26	31		

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Manager-Environment

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NOISE QUALITY REPORT

Month	MARCH	Area	SOHAGPUR	Report No	BSP/SGP/2023/03
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Name of the Customer	South Eastern Coalfields Ltd, Bilaspur	Date of Issue	02.04.2023
Name of the Project	SHARDA O.C.M	Sample Reference No.	SSON1-N8

Parameter			The Noise Pollution (R & C) rules, 2000		Remarks
Limit (in dB(A) Leq	Industrial area	A	Day Time	Night Time	
	Commercial area	B	65	55	
	Residential Area	C	55	45	
	Silence Zone	D	50	40	
Method of analysis	CPCB Protocol For Ambient Level Noise Monitoring				
Station (Code) Station Name	Station category	Date of measurement	Value in dB(A)	Value in dB(A)	
01. Manager Office	A	13.03.2023	53.4	49.5	
		22.03.2023	58.6	45.5	
02. Near Loading Point	A	13.03.2023	53.8	49.9	
		22.03.2023	60.3	48.6	
3. Near Sharda Temple (Highwall Workshop)	A	13.03.2023	55.5	50.2	
		22.03.2023	63.4	50.5	
4. Transport Office	A	13.03.2023	52.6	47.6	
		22.03.2023	66.6	51.4	
5. Bakhi Village	C	13.03.2023	52.7	44.9	
		22.03.2023	45.0	40.6	
6. Rungta Colony Dispensary	C	13.03.2023	52.6	43.4	
		22.03.2023	43.8	37.9	
7. Rungta Colony Filter Plant	C	13.03.2023	51.5	42.4	
		22.03.2023	45.2	39.1	
8. Bakho Village	C	13.03.2023	51.4	41.3	
		22.03.2023	41.5	37.5	



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Manager-Environment

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

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28464		Report Issue Date		27-03-2023	
Customer Name		South Estern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16267		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.23	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)

Date&Time :27-03-2023 03:49:41

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Note:

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		 www.cmpdi.co.in	 07752-246371

TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28937		Report Issue Date		30-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16455		
Sampling Location	Mine Discharge Sharda O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.62	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	21.00	±0.445 @ 24.429

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

Reported By
Salim Khan

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28465	Report Issue Date	27-03-2023		
Customer Name	South Eastern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16268
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.24	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :27-03-2023 03:49:41

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28941	Report Issue Date		30-03-2023
Customer Name		South Estern Coal Field Ltd Bilaspur	Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16456
Sampling Location	Up Stream Of Son River Sharda O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	16.00	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.62	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	18.00	±0.445 @ 24.429

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

Reported By
Salim Khan

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.	28463	Report Issue Date	27-03-2023		
Customer Name	South Estern Coal Field Ltd Bilaspur	Address & Contact Details	SEEPAT ROAD BILASPUR 7752241927		
Sampling By	SIBO, AMARJEET	Date of Sampling	07-03-2023	Sample ID	16266
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	AS PER FORTNIGHTLY PLAN	Sampling Method	CMPDI/BSP/LSOP
Sample Condition	APPROPRIATE	Date of Receipt of Sample	09-03-2023	Date of Analysis	From 09-03-2023 To 20-03-2023

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	8.16	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.21	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	BDL	±0.445 @ 24.429

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

Reported By
Manojkumar Baghel

Reviewed and Approved
Kumaravel. C
Manager (Env)
Date&Time :27-03-2023 03:49:41

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TEST & SAMPLING REPORT OF (EFFLUENT WATER FORTNIGHTLY)

Unique Report No.		28933		Report Issue Date		30-03-2023	
Customer Name		South Eastern Coal Field Ltd Bilaspur		Address & Contact Details		SEEPAT ROAD BILASPUR 7752241927	
Sampling By	Devendra	Date of Sampling	18-03-2023	Sample ID	16454		
Sampling Location	Down Stream Of Son River Sharda O.C.M.	Sampling Plan	As per fortnightly plan	Sampling Method	CMPDI/BSP/LSOP		
Sample Condition	APPROPRIATE	Date of Receipt of Sample	20-03-2023	Date of Analysis	From 07-03-2023 To 27-03-2023		

Sr. No	Parameter	Test At	Method of Analysis	Range	Permissible Limit*	Observed Value	UOM (at 95% C.L&k=1.96)
1	C.O.D mg/l	Main	APHA, 23rd Edition, 2017, 5220C	8.0 - 500.0	250	BDL	±6.209 at 247.427
2	Oil & Grease mg/l	Main	IS 3025 (Part 39):1991,(RA : 2003)	4.0 - 100.0	10	BDL	±1.8109 @ 9.95
3	pH Value Unitless	Main	IS 3025 (Part 11):1983, R : 2012	1.00 - 14.00	5.5-9.0	7.50	±0.1272 at 7.0074
4	Total suspended Solids mg/l	Main	IS 3025 (Part 17):1984, (RA: 1996)	10.0 - 5000.0	100	13.00	±0.445 @ 24.429

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

Reported By
Salim Khan

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Kumaravel. C
Manager (Env)
Date&Time :30-03-2023 03:08:52

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